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TEACHER PREPARATION: ENSURING A QUALITY TEACHER IN EVERY CLASSROOM

HEARING

OF THE

COMMITTEE ON HEALTH, EDUCATION, LABOR, AND PENSIONS

UNITED STATES SENATE

ONE HUNDRED THIRTEENTH CONGRESS

SECOND SESSION

ON

EXAMINING TEACHER PREPARATION, FOCUSING ON ENSURING A QUALITY TEACHER IN EVERY CLASSROOM

MARCH 25, 2014

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CONTENTS

STATEMENTS

TUESDAY, MARCH 25, 2014

	Page
COMMITTEE MEMBERS	
Harkin, Hon. Tom, Chairman, Committee on Health, Education, Labor, and Pensions, opening statement Alexander, Hon. Lamar, a U.S. Senator from the State of Tennessee, opening statement Warren, Hon. Elizabeth, a U.S. Senator from the State of Massachusetts Isakson, Hon. Johnny, a U.S. Senator from the State of Georgia Bennet, Hon. Michael F., a U.S. Senator from the State of Colorado Murphy, Hon. Christopher S., a U.S. Senator from the State of Connecticut	1 2 48 50 51 54
WITNESSES	
Crowe, Edward, Senior Advisor of the Woodrow Wilson National Fellowship Foundation, Princeton, NJ Prepared statement Brabeck, Mary, Ph.D., Gale and Ira Drukier Dean and Professor of Applied Psychology, New York University, New York, NY Prepared statement Koerner, Mari, Ph.D., Professor and Dean of the Mary Lou Fulton Teachers College, Arizona State University, Tempe, AZ Prepared statement Daly, Timothy, President of the New Teacher Project, Brooklyn, NY Prepared statement Burns, Jeanne M., Ph.D., Associate Commissioner of Teacher and Leadership Initiatives, Louisiana Board of Regents, Baton Rouge, LA Prepared statement ADDITIONAL MATERIAL	5 6 12 14 19 21 31 34 38 40
Statements, articles, publications, letters, etc.: Chris Stephenson, Executive Director, Computer Science Teachers Association (CSTA) Letter from Edward Crowe Response by Edward Crowe to questions of: Senator Murray Senator Bennet Senator Warren Response by Mari Koerner, Ph.D. to questins of: Senator Harkin Senator Bennet Senator Warren Response by Timothy Daly to questions of: Senator Bennet Senator Murray Senator Murray Senator Warren	62 63 67 67 68 69 69 73 74 75 76

TEACHER PREPARATION: ENSURING A QUALITY TEACHER IN EVERY CLASSROOM

TUESDAY, MARCH 25, 2014

U.S. Senate, Committee on Health, Education, Labor, and Pensions, Washington, DC.

The committee met, pursuant to notice, at 2:33 p.m., in room SD-430, Dirksen Senate Office Building, Hon. Tom Harkin, chairman of the committee, presiding.

Present: Senators Harkin, Bennet, Murphy, Warren, Alexander, and Isakson.

OPENING STATEMENT OF SENATOR HARKIN

The CHAIRMAN. The Senate Committee on Health, Education, Labor, and Pensions will come to order. This is the seventh in a series of hearings to inform this committee's reauthorization of the Higher Education Act. The focus of today's hearing, teacher preparation, is profoundly important for all students, from the very youngest to our adult students.

Study after study shows that teacher quality is the decisive inschool factor in boosting student achievement. Today, we have too few students who have access to highly effective teachers, teachers who can help ensure that our low-income students get the high-quality education that their higher income peers get.

Just last week, the U.S. Department of Education's Office for Civil Rights released data showing that students of color are much more likely to attend schools where teachers have not met all State licensing requirements. In order to achieve greater equity in our schools, we must ensure that every student has access to highly effective teachers.

The Higher Education Act plays a critical role in teacher training by providing funding to institutions of higher education, in partnership with K–12 districts, to reform and strengthen their teacher prep programs. This is a relatively small Federal program. But I hope we will hear today how it can be best leveraged to bring about systemic change in our teacher prep programs.

The Higher Education Act requires all institutions of higher education, as well as States, to report certain information about their teacher preparation programs. I hope we can hear about how the existing reporting requirements can be streamlined and revised to be less burdensome, more focused on outcomes, and more helpful to teacher preparation programs.

Another area of concern that we hear about is the lack of communication in many places between institutions of higher education and the K-12 school districts that they serve. Institutions of higher education do not necessarily understand the realities teachers will face in the classroom, and K-12 districts may not be effectively communicating their needs to the institutions that train their teachers.

In certain areas of the country, we also hear about institutions of higher education preparing too many elementary teachers to the exclusion of teachers in shortage areas, including special education teachers, English language learner teachers, early childhood spe-

cialists, and STEM teachers.

In Part D of the Individuals with Disabilities Education Act, the Federal Government dedicates funds for the preparation of special education teachers, early interventionists, related services personnel, and leaders in the field. We should continue to ensure that both of these funds are available and that they are resulting in effective special education teachers.

Finally, the HEA requires States to designate teacher preparation programs as low performing, when appropriate, and to provide certain interventions for those programs. However, as of 2013, 24 States, as well as the District of Columbia, have never identified

even a single low performing program.

One might be inclined to read this and think that our teacher prep programs are doing a great job. Unfortunately, in many cases, teachers report feeling unprepared for the realities of the classroom, and school principals and administrators report that many new teachers are not ready to teach. Now is the time to take stock of where our teacher preparation programs are doing a good job, where they are coming up short, and how we can support efforts to strengthen these programs.

With that, I invite Senator Alexander.

OPENING STATEMENT OF SENATOR ALEXANDER

Senator ALEXANDER. Thanks, Mr. Chairman. I welcome our witnesses, and I look forward to this.

I want to congratulate Senator Harkin and his staff and our staff for coming up with some terrific hearing subjects and witnesses. And lest you think we're not listening, at some of our previous hearings, we've listened very carefully and are busy working together, as we often do in this committee across party lines, to try to take your advice, because what we found is that this is the eighth, I think, reauthorization of the Higher Education Act, and over time, things just stack up.

I'll be especially looking forward to your suggestions about what we would do if we were starting from scratch. We might not be able to do that as a practical way in this case, but on the other hand, sometimes that is a better way to do it. What would our objectives be? This isn't really an ideological subject in that sense. It's just a matter of good management and weeding the garden before we

go ahead. So I thank the chairman for this.

I always like the statement attributed to Professor Coleman of the University of Chicago that schools are for the purpose of doing what parents don't do as well, which leaves lots of room for different kinds of schools, because we have many different kinds of home settings for children. All of us would like to find a better parents law if we could think of one, but I've never figured one out except to give lower income parents more of the same choices of schools that wealthier parents have.

But the country, over the last 30 years, has focused on the obvious, which is, after the parent, the teacher is the most important person in the child's life, and what can we do to create an environment in which the best teachers can succeed. Thirty years ago, I was a young Governor of Tennessee, trying to help our State become the first State to pay teachers more for teaching well, and that meant trying to define well, which seems obvious until you start trying to do it.

But I figured the obvious ones to help me understand that, so we could literally pay teachers more for their excellence, were the colleges of education. Yet when I went to the colleges of education, they said, "Oh, you can't do that. It's not possible to tell the difference between a teacher who teaches better than others."

And I said,

"That's ridiculous, because you do it in your own college, or you allegedly do it, and certainly the universities do it. And I'm not saying it's easy, but surely colleges of education can provide suggestions about how to identify in a fair way excellence in teaching. You should surely be able to do that better than a bunch of politicians who are here for a temporary period of time."

But in the end, we had to do it ourselves.

We got advice from a lot of teachers, and, eventually, 10,000 teachers voluntarily went up a career ladder and were paid more. But that was just one dissatisfaction I had with the colleges of education at the time.

And at about that same time, there were other criticisms about colleges not being selective enough, providing minimal classroom experience, not enough core content learning as teachers were prepared. And as a result, we've seen a variety of efforts to try to address that.

One is the alternative certification programs, which I'm sure we'll hear about today—as many as 40 percent of new hires—as many States moved ahead to give other people new routes to go into teaching. The accountability standards that virtually every State has adopted made a difference.

The teacher evaluation efforts have not been as successful as I would have hoped. But where they were, colleges of education have cooperated now in helping States identify fair ways to reward outstanding teaching. And professional development, which used to be a huge waste of time, and may still be in many places, has gotten some real scrutiny.

I welcome this discussion today and look forward to the various proposals. I want to acknowledge that the Council for Accreditation of Educator Preparation, CAEP, has new accrediting standards over the last few years. I'd like to know what you think of those. I appreciate the role that the Dean of Vanderbilt's Peabody School has played in this whole area.

I like the fact that our State, through Democratic and Republican Governors in Tennessee, has continued to address this subject and is even evaluating graduates of our teacher preparation programs for 4 or 5 years after they get out to see whether their students are achieving what needs to be done. And as Senator Harkin said, I would especially like to review the requirements we impose from Washington on teacher colleges today and make sure they're current and that they're useful and that they just haven't stacked up over the last 30 or 40 years.

When we took a look at the application for Federal financial aid for grants and loans, we found a lot of unnecessary questions and answers that we can probably eliminate and save a lot of time and

money that can be used to help educate students.

I hope you'll identify as specifically as possible what your recommendations for us are for the reauthorization of the Higher Education Act, what the Federal Government can do to create a better environment for teacher colleges, and what we should not be doing.

Thank you, Mr. Chairman.

The CHAIRMAN. Thank you, Senator Alexander.

We have a distinguished panel today, and I will introduce all of you right now, and then we'll start from my left and go to the right for your statements. I'll just say at the outset that all of your statements, which I've read over, will be made a part of the record in their entirety, and I'll ask you to sum it up in 5 minutes or so. We'll just go through, and then we'll open it up for discussion.

First, we have Dr. Edward Crowe, a consultant on teacher quality and K through 16 policy issues for several organizations. Dr. Crowe was the first director of the title II Teacher Quality Enhancement Program for the U.S. Department of Education and has extensive knowledge of the title II program. He is currently a Senior Advisor for the Woodrow Wilson National Fellowship Foundation and has served as a consultant to the Academy for Educational Development and the Carnegie Corporation of New York on the Teachers for a New Era program.

Dr. Mary Brabeck is a professor of applied psychology at New York University. She is currently the elected chair of the board of directors of the Council on Accreditation of Educator Preparation that's CAEP, as Senator Alexander mentioned—and will speak to

CAEP accreditation issues.

Next is Dr. Mari Koerner, who serves as Professor and Dean of the Mary Lou Fulton Teachers College at Arizona State University. ASU currently has one of the largest title II grants in the Nation, and Dean Koerner will speak to ASU's grant implementation.

ASU's education graduate programs have been ranked among the best by U.S. News and World Report for 12 consecutive years. Dr. Koerner serves on the Advisory Board for Teach for America, the Advisory Council for Rodel Charitable Foundation, and on the board of directors for Arizona Business and Education Coalition.

And then we have Mr. Daly. Mr. Tim Daly is the president of The New Teacher Project and will speak to alternative certification issues. Under Tim's tenure as president, TNTP has become a leading source of innovative research and a respected independent voice on teacher quality issues.

Last, we have Dr. Jeanne Burns, currently the Associate Commissioner of Teacher Education Initiatives for the Louisiana Office of the Governor and the Board of Regents and will speak to Louisiana's teacher prep program reforms. She is also co-director of the Blue Ribbon Commission for Educational Excellence. She served as principal investigator for a \$3.2 million Title II Teacher Quality State Enhancement Grant awarded to the Office of the Governor in 2000–2005 which supported the redesign of all teacher prep programs in Louisiana.

Again, welcome. You're all very distinguished. Thank you for

being here and for your input into this process.

We'll start with Dr. Crowe. If you could just sum up your statement in about 5 minutes or so, then we'll just kind of move down the line.

STATEMENT OF EDWARD CROWE, SENIOR ADVISOR OF THE WOODROW WILSON NATIONAL FELLOWSHIP FOUNDATION, PRINCETON, NJ

Mr. Crowe. Thank you, Senator Harkin, Senator Alexander, and members of the committee, for the opportunity to participate in this harring. My name is Ed Crowe

this hearing. My name is Ed Crowe.

My remarks today will address the current preparation program accountability standards and reporting under title II; how the Teacher Quality Partnership grants program contributes to progress and program improvement; and ways to improve title II of the HEA that can help States, institutions of higher education, and other stakeholders to strengthen the quality of teacher preparation in the United States. I also will suggest ways of reducing the reporting burden that title II now imposes.

So I think a good place to start this conversation is with K-12 student achievement in the country. According to the latest NAEP results, two-thirds of our fourth graders are not proficient in reading, 58 percent of those fourth graders are not proficient in mathematics, and 64 percent of U.S. eighth graders are not proficient in

either math or reading, according to NAEP.

Despite those student learning outcomes, the latest national title II report card shows that 99 percent of all teacher candidates in the country pass all of their teacher tests, 98 percent of them pass all of their professional knowledge tests, and 96 percent pass all of their academic content tests. This disconnect, I think, between the performance of our young people in core subject areas and the performance of their teachers on tests required for licensure is one of the basic failures of the current title II accountability requirements for teacher education.

Another problem with the current HEA reporting and accountability system, as the chairman noted, is that few States make any effort to flag and report weak programs as low performing or at risk of becoming low performing. For the most recent reporting year, 39 States did not classify even one program as low performing. In fact, the majority of States have never found a program to be either low performing or at risk, again, despite the K–12 student performance issues I mentioned earlier.

For those States that do take this step, only 38 programs in the country were flagged as low performing in 2011. That represents

1.8 percent of the 2,100 teacher education programs across the country.

So if programs that prepare our teachers are not held accountable in a meaningful way for the inability of their graduates to teach students to do mathematics and learn to read, it's hard to see how the country can help these students to become productive and successful members of society. Title II of the HEA can help us address these challenges by reducing the current reporting burden on programs in States so that we focus on essential pieces of data that will help programs to improve and help States to monitor program quality more effectively.

What's collected now is not providing useful information. It's also burdensome to institutions and to States, few of which do anything with the information except report what they're required to report

under the current statute.

A better title II reporting system would concentrate on a relative handful of key items telling us how all programs are doing at producing new teachers with the knowledge and skills to address our daunting achievement challenges. A small number of core indicators would also be useful information for the rest of us, for the public, for the programs, and for the States. Limited and targeted reporting is much more likely to foster program improvement and help the States deal with weak providers.

States are currently required to determine whether programs under their jurisdiction are low performing or at risk of low performance. As I noted, most States have never done that. Fewer than 2 percent of programs ever receive this designation. A big step toward improvement is that States should use a small number of transparent and important program quality measures to decide whether preparation programs under their jurisdiction are at risk

or low performing.

And because so many new teachers are trained in one State but employed as teachers in a different State-19 percent of all new teachers in the country—it makes sense for every State to use the same set of measures for preparation program oversight so that schools and students, no matter where they are, will have equal access to the best new teachers that our country can give them. We already do this in nursing, engineering, medicine, and other fields, where States have joined together in a voluntary way to oversee those professions.

Finally, members of the committee, if I can leave you with one thought as you work on this reauthorization, please help us through HEA to expect more from preparation programs and from States so our children can learn and grow to their full potential.

Thank you so much.

[The prepared statement of Mr. Crowe follows:]

PREPARED STATEMENT OF EDWARD CROWE

SUMMARY

Thank you Senator Harkin, Senator Alexander, and members of the committee for

the opportunity to participate in this hearing.

My name is Edward Crowe and my remarks today will address: (1) current preparation program accountability standards and reporting under Title II of the HEA, (2) how the Teacher Quality Partnership grants program contributes to program improvement across the country, and (3) ways to improve Title II of the HEA that can help States, institutions of higher education, and other stakeholders to strengthen the quality of teacher preparation in the United States. My comments will also suggest how to reduce the reporting burden of title II.

STUDENT ACHIEVEMENT, PROGRAM QUALITY, AND PROGRAM ACCOUNTABILITY

Two-thirds of all fourth graders in the United States are *not proficient* in reading. In mathematics, 58 percent of all U.S. fourth graders are *not proficient* according to the same 2013 test results from the National Assessment of Educational Progress (NAEP).

For eighth-grade students, 64 percent were not proficient in reading. The same proportion of our eighth graders was not proficient in mathematics.

Despite these student learning outcomes, the latest title II report card indicates that 99 percent of all teacher candidates in the country passed their basic skills tests; 98 percent passed all of their professional knowledge tests; and 96 percent passed their academic content tests.

This disconnect between the performance of our young people in core subject areas and the performance of their teachers on tests required for licensure and certification is one of the basic failures of the current title II accountability requirements for teacher preparation programs.

Another problem with the current Title II HEA reporting and accountability system is that few States make any effort to flag and report weak programs as low performing.

For the most recent reporting year, 39 States did not classify even one teacher preparation program as low performing or at risk of low performance. In fact, 35 States have *never* found a program to be low performing or at risk, despite the K–12 student performance issues shown in the tables above. For those who do, 38 programs were cited as low performing or at risk in 2011. This represents 1.8 percent of the 2,124 preparation programs in the country.

If programs that prepare our Nation's teachers are not held accountable in a meaningful way for the inability of their graduates to teach K-12 students to do mathematics and learn to read, it is hard to see how the country can help these students to become productive and successful members of our society.

TEACHER QUALITY PARTNERSHIP GRANTS

In recent years, the Teacher Quality Partnership (TQP) program funded two rounds of awards. In fiscal year 2009, 28 grants were made for a total of \$43 million. In fiscal year 2010, the U.S. Department of Education awarded 12 grants totaling \$100 million. The statutory focus areas for these grants include: improving student achievement, improvements to the quality of prospective and new teachers by strengthening both teacher preparation and professional development; holding preparation programs accountable for training high quality teachers; and recruiting highly qualified prospective teachers into the profession.

These awards have been made to universities, to a State department of education, to a national STEM teaching initiative, and to three school districts. Many of the projects have multiple university and local LEA partners. Almost half of the TQP grants support "residency" programs that place teacher candidates in extended learning experiences in school settings for as long as a full year.

Through the work of these 40 grantees and their local partners, the TQP program is being used for teacher preparation program changes. University faculty and others involved in these 40 TQP grants are making good faith efforts to improve the preparation and support of teacher candidates who enroll in their programs.

However, it is hard to see much impact on teacher preparation in the United States from the program itself or from these individual efforts. There are two main reasons for this limited impact:

- The wide range of TQP objectives and implementation strategies dilutes the overall ability of the grant program to foster promising strategies and test their effectiveness in multiple settings.
- There is no common evaluation framework for the non-residency grant projects, a reflection of how different they are from one another.

Both problems could be remedied by a competitive program that targets funding for teacher preparation program redesigns that address a small number of topics, support grantees in several locations who do the same kind of work (e.g., like multisite trials), and evaluate the projects using the same set of measures.

A RESOURCE TO STRENGTHEN PREPARATION PROGRAM QUALITY AND ACCOUNTABILITY

A good starting point to improve the impact of title II on program quality and accountability is to reduce the reporting burden on States and programs imposed by the existing statute and regulations. Too many current reporting elements are not central to understanding the preparation, production, and performance of strong teachers. Too little attention is given to reporting information about key program outputs and outcomes that affect the learning performance of K–12 students.

Collecting purely descriptive information gives States, program leaders, and the public few analytical tools to understand program impact on the production and classroom success of well-prepared new teachers. Title II reporting should focus on a small set of key items:

- · The academic strength of admitted students.
- Their demographic characteristics.
- Their preparation in high need subject areas.
- Whether they teach in high need schools and subjects.
- Whether they stay in teaching.
- The impact graduates have on student learning.
- Assessments of their classroom teaching skills.
- And feedback about their programs from the graduates and their employers.

While reporting some of this information may be a heavy lift for some programs without external support in data collection and analysis, numerous recent efforts at State and other levels provide important resources for programs and States. In addition, Section 208 of the Higher Education Opportunity Act (HEOA), passed by the Congress in 2008, authorized State agencies to share "any and all pertinent education-related information" with teacher preparation programs that "may enable the teacher preparation program to evaluate the effectiveness of the program's graduates or the program itself."

INCENTIVES FOR STATES TO USE THE SAME INDICATORS AND ACCOUNTABILITY TOOLS

Engineering, accountancy, nursing, and medicine are among the professions that have uniform State accountability standards for programs and graduates. In each case, the profession worked closely with States to develop a single set of policies that apply everywhere and they were adopted by each State under its own authority. These fields—including nursing with over 1,200 program providers—also use the same licensing tests and passing scores for graduates in every State

same licensing tests and passing scores for graduates in every State.

There are good reasons for thinking that this voluntary approach by these professions and the States can make a difference for teacher preparation program quality. A significant number of newly licensed teachers in the United States complete a preparation program in one State and obtain their initial license in another jurisdiction. Nationwide, 19 percent of all initial State credentials are issued to teachers prepared in another State. For 10 States, over 40 percent of new teachers in each of these States are trained elsewhere and 22 States have reported that at least 20 percent of new teachers were prepared outside their State. One set of common standards would ensure that quality means the same thing no matter where the program is located or where the graduate is employed.

Reports on K-12 learning outcomes show that we must do much more to ensure a quality teacher in every classroom. Title II of the HEA can be an effective vehicle for this goal.

Thank you again, Mr. Chairman and members of the committee. I would be happy to respond to your questions.

Thank you Senator Harkin, Senator Alexander, and members of the committee for the opportunity to participate in this hearing.

Title II of the Higher Education Act, last amended in 2008, provides for teacher preparation program accountability through program and State reporting. The statute also requires States to set criteria for designating low performing or at-risk preparation programs under their jurisdiction, and to report whether they have found any programs to be low performing or at risk of being low performing. Accountability functions of the statute are met through public disclosure of program information and listing by the State as low performing or at risk.

information and listing by the State as low performing or at risk. Through Title II of the HEA, the U.S. Department of Education also makes grants to improve teacher preparation program quality. These awards take place through the Teacher Quality Partnership Program; multi-year grants were made most recently in fiscal year 2009 and in fiscal year 2010.

My remarks will address: (1) current preparation program accountability standards and reporting under Title II of the HEA, (2) how the Teacher Quality Partnership grants program contributes to program improvement across the country, and (3) ways to improve Title II of the HEA that can help States, institutions of higher education, and other stakeholders to strengthen the quality of teacher preparation in the United States. Finally, these comments also describe how to reduce the reporting burden of title II by focusing reporting and accountability on a relatively small number of key items.

K–12 STUDENT ACHIEVEMENT, PREPARATION PROGRAM QUALITY, AND PROGRAM ACCOUNTABILITY

Two-thirds of all fourth graders in the United States are *not proficient* in reading. In mathematics, 58 percent of all U.S. fourth graders are *not proficient* according to the same 2013 test results from the National Assessment of Educational Progress (NAEP).

For eighth-grade students, 64 percent were not proficient in reading. The same proportion of our eighth graders was not proficient in mathematics.

proportion of our eighth graders was not proficient in mathematics.

And yet 96 percent of all teacher candidates in the country passed all of their teacher licensing tests in the most recent year for which test results are available. The table below presents disaggregated NAEP results of grades 4 and 8 student

performance in reading and mathematics.

Grade 4 Reading and Mathematics: Percent NOT Proficient on 2013 NAEP

	Reading (In percent)	Mathe- matics (In percent)
All 4th Graders	66	58
Black Students	83	82
Hispanic Students	80	74
White Students	55	46

Grade 8 Reading and Mathematics: Percent NOT Proficient on 2013 NAEP

	Reading (In percent)	Mathe- matics (In percent)
All 8th Graders	64	64
Black Students	83	86
Hispanic Students	78	79
White Students	54	55

Despite these student learning outcomes, the latest title II report card indicates that 99 percent of all teacher candidates in the country passed their basic skills tests; 98 percent passed all of their professional knowledge tests; and 96 percent passed their academic content tests.

This disconnect between the performance of our young people in core subject areas and the performance of their teachers on tests required for licensure and certification is one of the basic failures of the current title II accountability requirements for teacher preparation programmes.

for teacher-preparation programs.

Another problem with the current Title II HEA reporting and accountability system is that few States make any effort to flag and report weak programs as low performing. The Title II HEA statute calls on States to "conduct an assessment to identify low performing... teacher preparation programs in the State and to assist such programs through the provision of technical assistance. Each such State shall provide the Secretary with an annual list of low performing teacher-preparation programs and an identification of those programs at risk of being placed on such list ..." The title II statute goes on to specify that "Levels of performance shall be determined solely by the State and may include criteria based on information collected pursuant to" the title II reporting requirements.

For the most recent reporting year, 39 States did not classify even one teacher preparation program as low performing or at risk of low performance. In fact, 35 States have *never* found a program to be low performing or at risk, despite the K–12 student performance issues shown in the tables above.

Among the other 11 States, 38 programs were identified as low performing or at risk in 2011. This number represents 1.8 percent of the 2,124 preparation programs in the country.

Apart from not looking carefully at the performance of teacher education programs whose graduates are allowed to obtain licenses and teach in the State, and in light of the data presented above on student learning outcomes, the fact that 35 States have never found a program in need of improvement also suggests that they are not doing enough to help programs and their graduates to be as effective as possible in meeting important State education needs.

If programs that prepare our Nation's teachers are not held accountable in a meaningful way for the inability of their graduates to teach K-12 students do mathematics and learn to read, it is hard to see how the country can help these students to become productive and successful members of our society.

TEACHER QUALITY PARTNERSHIP GRANTS

In an effort to promote innovation and quality improvement in teacher preparation programs, the 1998 reauthorization of the Higher Education Amendments (HEA) also established competitive grant programs.

In recent years, the Teacher Quality Partnership (TQP) program funded two rounds of awards. In fiscal year 2009, 28 grants were made for a total of \$43 million. And in fiscal year 2010, the U.S. Department of Education awarded 12 grants totaling \$100 million. The statutory focus areas for these grants include: improving student achievement, improvements to the quality of prospective and new teachers by strengthening both teacher preparation and professional development; holding preparation programs accountable for training high quality teachers; and recruiting highly qualified prospective teachers into the profession.

These awards have been made to universities, to a State department of education, to a national STEM teaching initiative, and to three school districts. Many of the projects have multiple university and local LEA partners. Almost half of the TQP grants support "residency" programs that place teacher candidates in extended learning experiences in school settings for as long as a full year.

The 40-funded TQP projects embrace a wide range of preparation strategies and subject areas. The most common subject areas addressed by the grantees are special education, one or more of the STEM subjects, and preparing new teachers to work with English as a Second Language (ESL) or bilingual K–12 students. One project appears to have a central focus on reading instruction. Others address teachers for all grades, recruiting prospective teachers in rural areas or from community colleges in rural areas, and early childhood education.

Through the work of these 40 grantees and their local partners, the TQP program is being used for teacher preparation program changes. University faculty and others involved in these 40 TQP grants are making good faith efforts to improve the preparation and support of teacher candidates who enroll in their programs.

However, it is hard to see much impact on teacher preparation in the United States from the program itself or from these individual efforts. There are two main reasons for this limited impact:

- The wide range of TQP objectives and implementation strategies dilutes the overall ability of the grant program to foster promising strategies and test their effectiveness in multiple settings. Despite a long list of objectives and activities that grantees are required to address, the program does not have an explicit focus on content areas like reading or mathematics where the Nation's students are clearly in need of stronger instruction.
- There is no common evaluation framework for the non-residency grant projects, a reflection of how different they are from one another. While the TQP residency grants are being evaluated in the same way (by the Institute of Education Sciences at the U.S. Department of Education), evaluation is aimed at producing mostly information like program characteristics, and demographic characteristics of participants enrolled in the program. The one analytical component of this assessment concerns the persistence rates in teaching of those who complete the residency programs.

Both problems could be remedied by a competitive program that targets funding for teacher preparation program redesigns that address a small number of topics, support grantees in several locations who do the same kind of work (e.g., like multisite trials), and evaluate the projects using the same set of measures.

TITLE II OF HEA AS A RESOURCE TO STRENGTHEN PREPARATION PROGRAM QUALITY AND ACCOUNTABILITY

A good starting point to improve the impact of title II on program quality and accountability is to reduce the reporting burden on States and programs imposed by the existing statute and regulations. Too many current reporting elements are not central to understanding the preparation, production, and performance of strong teachers. And too little attention is given to reporting information about key program outputs and outcomes that affect the learning performance of K-12 students.

Secretary Duncan reported in 2011 that there were more than 2,000 teacher prep-

aration programs in the country. A noted scholar of this field wrote:

"There is so much variation among all programs in visions of good teaching, standards for admission, rigor of subject matter preparation, what is taught and learned, character of supervised clinical experience, and quality of evaluation that compared to any other academic profession, the sense of chaos is inescapable"—(Lee Shulman, Stanford University, 2005).

Since there is so little overlap between programs, collecting purely descriptive information about them gives States, program leaders, and the public few analytical tools to understand program impact on the production and classroom success of well-prepared new teachers. Reporting that focuses on a small set of key items that relate to program quality can help policymakers and the public know when and why a program is good. Instead of what is collected today, the title II reporting system should concentrate on:

 The academic strength of candidates admitted to the program through information on GPA and ACT/SAT scores.

• Demographic characteristics of those who are admitted to the program, and similar data for those who complete the program to gauge the extent to which program enrollments and graduates reflect the diversity of the schools they serve.

• The proportion of teacher candidates in the program who obtain at least 50 percent of supervised student teaching experience in schools that are high-need and

also high functioning.

• The number and percent of graduates prepared as teachers in high-need subject areas as defined by the State where the program is located.

• The number and percent of graduates who are employed as teachers in highneed schools and subject areas, and the number and percent of these teachers who persist in teaching for 1–5 years after program completion.

• A teacher effectiveness measure that captures the extent to which program

graduates help their K-12 students to learn.

 Classroom teaching performance for program graduates that is measured by reliable and valid assessments of teaching skills, student engagement and student learning.

• Survey results from preparation program graduates and from their employers about how well the program prepares its graduates to teach; the report should include survey response rates.

The value and validity of measures like these for program improvement and accountability has been affirmed recently by an American Psychological Association (APA) task force of educators and measurement experts. Similar program data are at the heart of the revised standards for program accreditation adopted in 2013 by the Council for the Accreditation of Educator Preparation (CAEP).

While reporting some of this information may be a heavy lift for some programs without external support in data collection and analysis, numerous recent efforts at State and other levels provide important resources for programs and States. Through the Council of Chief State School Officers (CCSSO), at least seven States have embarked on comprehensive reforms to teacher licensure and program approval standards, work that will assist programs in those States with reporting and improvement strategies. Race to the Top grants in at least 11 States include development of preparation program quality indicators and reporting systems to support their use. Forty-seven States have received data system improvement grants through the Federal Statewide Longitudinal Data Systems (SLDS) program. Within the States, organizations such as the Center for Research, Evaluation, and Advancement of Teacher Education (CREATE), which provides data collection and analysis services to more than 50 university preparation programs in Texas, can be tapped

as program resources for high quality reporting.

Beyond these resources for better reporting on teacher preparation, Section 208 of the Higher Education Opportunity Act (HEOA), passed by the Congress in 2008, authorized State agencies to share "any and all pertinent education-related information" with teacher preparation programs that "may enable the teacher preparation program to evaluate the effectiveness of the program's graduates or the program itself."

INCENTIVES FOR STATES TO USE THE SAME INDICATORS AND ACCOUNTABILITY TOOLS

Engineering, accountancy, nursing, and medicine are among the professions that have uniform State accountability standards for programs and graduates. In each case, the profession worked closely with States to develop a single set of policies that apply everywhere and were adopted by each State under its own authority. These fields—including nursing with over 1,200 program providers—also use the

same licensing tests and passing scores for graduates in every State.

There are good reasons for thinking that this voluntary approach by these professions and the States can make a difference for teacher preparation program quality. A significant number of newly licensed teachers in the United States complete a preparation program in one State and obtain their initial license in another jurisdiction. Nationwide, 19 percent of *all* initial State credentials are issued to teachers prepared in another State. For 10 States, over 40 percent of new teachers in each of these States are trained elsewhere and 22 States have reported that at least 20 percent of new teachers were prepared outside their State.

Title II of the HEA should provide incentives that encourage all States to adopt the same set of program quality and accountability indicators. One set of common standards would ensure that quality means the same thing no matter where the

program is located or where the graduate is employed.

While there are understandable personal and geographic reasons for this cross-State pattern, it means that students and schools in many States must depend on the policies and practices of a different State to make sure their teachers are the best possible instructors. The title II reporting system would give States better tools for preparation program improvement if it also specified that all States should use

the same measures for designating low performing or at-risk programs.

Consistent use of the same indicators across States for program reporting and accountability means that these policies and practices would be built on a set of clear countability means that these policies and practices would be built on a set of clear signals about program quality that policymakers can understand and program faculty can use in their own work. For guidance on how this approach can work effectively, Congress and the States can look to the experience of other well-respected professions. This strategy protects the public through the same set of rules in every State and it brings higher levels of public respect for the profession as a whole and for those in the profession who serve the public through their work.

FINAL COMMENTS

Now is a promising time to accelerate progress on teacher preparation program reform and accountability. States, national organizations, and programs themselves are working to improve the preparation of teachers for our Nation's students, seeking ways to push weak programs to get better or get out of the business of teacher education, and finding stronger ways to measure program and teaching quality. Reports on K-12 learning outcomes show that we must do much more to ensure a quality teacher in every classroom. Title II of the HEA can be an effective vehicle for this goal.

Thank you again, Mr. Chairman and members of the committee.

The CHAIRMAN. Thank you, Dr. Crowe.

Dr. Brabeck.

STATEMENT OF MARY BRABECK, Ph.D., GALE AND IRA DRUK-IER DEAN AND PROFESSOR OF APPLIED PSYCHOLOGY, NEW YORK UNIVERSITY, NEW YORK, NY

Ms. Brabeck. Chairman Harkin, Ranking Member Alexander, and committee members, I am honored to have the opportunity to talk with you today. I am the chair of the board of directors of the Council for the Accreditation of Educator Preparation.

I also come to you as someone who has been in higher education for 34 years. For 20 years of that time, I have been responsible for teacher education as a dean. And I have, over the course of those almost four decades now, seen multiple reports of how to reform teacher preparation. I count 40, actually, that I have achieved, and there may be another one this year.

But up until now, there has been no rigorous and evidence-based process for separating the highly performing programs from the poorly performing programs across our country. CAEP aims to

change that.

The adoption of CAEP's new accreditation standards achieved a historic consensus. This was the commission that Senator Alexander referred to that was led by Dean Benbow from Vanderbilt. And the stakeholders at the table that formed the standards came from education deans, the Council of Chief State School Officers, teacher unions, parents, critics of higher education, and critics of accreditation. The group came together unanimously to approve the standards, and those standards were adopted unanimously by the board of directors of CAEP in August 2013.

CAEP has teeth in its standards and will raise the bar so that all accredited programs move from adequacy to excellence and weak programs are closed. We can no longer rely on outmoded accreditation processes with one-time reviews every 7 to 10 years, on mountains of course syllabi with stories or credit hours but little data that shows that graduates of those programs can teach all

children effectively.

CAEP expects accredited programs to annually collect and report evidence that is meaningful, valid, reliable, and actionable, that is, as Senator Harkin suggested, data that can help programs improve and do a better job at preparing teachers. CAEP's standards are not business as usual. They embody four research-based levers for

change

First, CAEP requires evidence of strong clinical experience and partnerships between teacher preparation programs and pre-K-12 schools, programs that will meet the local and national urgent needs that have already been mentioned in your opening remarks, special education teachers, STEM teachers, teachers for hard-to-staff schools, teachers for children who are English language learners. And programs will be required to show evidence that their training involves partnership with K-12 schools and deep clinical experience in the real world of the classroom.

Second, CAEP will assure the public of teacher candidate quality and diversity. CAEP establishes high entry standards that draw from grade point averages as well as nationally normed standardized tests and requires both recruitment plans and success rates

for enrolling diverse candidates.

Third, CAEP will accredit all providers, from university-based programs, like mine at New York University or previously at Boston College, to alternative, for-profit, and online programs. All programs that prepare teachers to be accredited will have to show evidence of quality and continuous improvement of teacher preparation.

Finally, and above all, CAEP insists that accredited programs be judged by outcomes and impact on pre-K-12 student learning and

development. Results matter. Effort is not enough.

Today, we have better tools for the task of building an evidence-based teacher preparation profession. CAEP will require use of multiple measures such as the developing new generation of State assessments to evaluate PK-12 learning. CAEP requires, where available, the use of State longitudinal data systems that link

teacher education programs to K-12 learning outcomes. CAEP requires annual reporting of surveys of graduates and employers and

valid and reliable observations of candidates teaching.

We can, Senator Alexander, identify excellence in teaching, and we must, and we must make it public. CAEP will encourage the use of the robust literature on the power and the cautions regarding valid and reliable use of these new tools, such as the recent task force report developed by the American Psychological Association that sets out the conditions for valid and reliable use of these statistical measures—statistical methods.

In conclusion, I respectfully ask that you consider four recommendations to improve the Higher Education Act. First, I agree with my colleague, Dr. Crowe, to streamline title II reporting. Second, continue to build data capacity in the States. Third, expand and support research and development and implementation. We simply need to know more about what it takes to prepare an effective teacher. And, finally, support accountability. Encourage and monitor States who act on low performing programs as reported in title II's State report card.

We have, I believe, an historic opportunity to do what the Flexner Report did for medical education in 1910. Prior to the Flexner Report, admission to medical school was—you could be admitted without a high school diploma. Medical schools differed in their curricula. They differed in how they prepared doctors. And since the Flexner Report standardized the curriculum, we have seen a continual improvement in the preparation of physicians in this country. The same needs to happen in teacher preparation.

[The prepared statement of Ms. Brabeck follows:]

PREPARED STATEMENT OF MARY BRABECK, Ph.D.

SUMMARY

The Council for the Accreditation of Educator Preparation (CAEP) is the new single specialized accreditor of educator preparation in the United States. Through evidence that programs meet rigorous accreditation standards and transparent reporting, CAEP will inform policymakers, providers, and candidates about the quality of preparation programs. Equally important, CAEP will raise the bar in educator preparation so that all accredited programs in our Nation move from adequacy to excellence and weak programs are closed. CAEP will accomplish these goals through four levers for change:

- 1. CAEP requires evidence of strong clinical experiences and partnerships with P-12 schools and districts that meet (local and national) employers' urgent needs (e.g., Special Education; Science, Technology, Engineering and Math teachers, hard to staff schools).
- 2. CAEP raises standards for selection of capable and diverse candidates, and assures stakeholders of candidate quality from recruitment and admission into teaching.

3. CAEP accreditation includes all providers and encourages innovation

from university-based programs to alternative, for-profit, and online programs.

4. Most importantly CAEP accreditation will be determined by evidence of impact on P-12 student learning and development—Results matter; "effort" is not enough.

CAEP is working with educator preparation programs to help them develop a culture of evidence to continuously improve educator preparation even as programs are held accountable for demonstrating graduates are effective teachers. CAEP holds itself accountable to the public by ensuring that accredited programs are preparing teachers who are classroom-ready and can effectively teach all children. To assist CAEP in this dramatic change in educator preparation, I make a number of recommendations in my longer testimony but the most important are these:

1. Streamline Title II reporting requirements by aligning Federal program grantee reporting to CAEP's performance-based and outcome-driven measures. This will shift the focus of federally funded programs on evidence of impact on P-12 student performance.1

2. Expand and Support Research and Development. Encourage the development and use of new and current measures of teacher performance, assessment of the impact of teaching on learning, and survey research on effective teachers.

3. Encourage States to partner with CAEP in accreditation and program approval, and alignment of State and CAEP standards, data requirements and accountability processes.

CAEP aims not only to raise the performance of new teachers as practitioners in the Nation's P-12 schools, but also to elevate the stature of the entire profession. CAEP will do this by raising the standards and evidence that support providers' claims of quality and insisting on transparency and accountability to the public. CAEP will ensure that accredited programs prepare teachers who are classroom-ready and demonstrably raise learning for all of America's diverse P–12 student population. This is an urgent national priority.

Chairman Harkin, Ranking Member Alexander, committee members and my distinguished panelists, I am honored to have the opportunity to speak before you today as chair of the Board of Directors of the Council for the Accreditation of Educator Preparation (CAEP). It is a pleasure to discuss CAEP's new standards and how they ensure that accredited programs prepare teachers who are classroom-ready and demonstrably raise learning for all of America's diverse student popu-

lation. This is an urgent priority for all of us.

Launched in July 2013, CAEP is the new single specialized accreditor of educator preparation in the United States. Accreditation in educator preparation plays a vital role in informing policymakers, providers and candidates about the quality of preparation programs and whether the professional standards are being met. Equally important, CAEP is committed to raising the bar in educator preparation so that all accredited programs in our Nation move from adequacy to excellence and weak programs are closed. We can no longer tolerate failure or mediocrity in the preparation

of the next generation of America's teachers and school leaders.

I have been in higher education for 34 years, and for over 20 years I have been, as a dean, responsible for teacher preparation. During the span of my career, there have been multiple calls for education reform, but with very little agreement on how to implement needed reforms in a credible way that separates the highly performing programs from the poorly performing programs. In my judgment, the adoption of CAEP's new rigorous standards achieved **historic consensus** and alignment on educator preparation issues among diverse stakeholders for the first time. The stakeholders engaged in developing the CAEP standards and recommendations for a radically different approach to accreditation included deans, State policymakers, local superintendents, unions, teachers, P-12 student parents, alternative preparation programs, and even critics of educator preparation and accreditation.

CAEP's standards are not business as usual—but embody four research-based le-

• CAEP requires evidence of strong clinical experiences and partnerships with schools—Integrating a robust clinical experience into the core of any preparation program is essential. This demands strong partnerships with P-12 schools and school districts that will meet employers' urgent needs (e.g., special education teachers, STEM teachers, teachers of English language learners, teachers for

the most challenging schools, etc

 CAEP will assure the public of teacher candidate enhanced quality and diversity-CAEP establishes higher entry standards for admission into the programs and active recruitment of high quality and diverse candidates. From recruitment and admission, through preparation and exit and into P-12 classrooms, educator preparation programs will take responsibility for building an educator workforce that is capable and representative of America's diverse population. Graduates of these programs will be classroom and school-ready to teach all children.

¹Annual Reporting Measures include: (1) Impact on P-12 learning and development; (2) Indicators of teaching effectiveness; (3) Results of employer surveys, including retention and employment milestones; (4) Results of completer surveys; (5) Graduation rates; (6) Ability of completers to meet licensing (certification) and any additional State requirements; (7) Ability of completers to be hired in education positions for which they were prepared; (8) Student loan default rates and other consumer information.

• CAEO includes all providers—Accreditation must encourage innovation by welcoming all of the varied providers from university-based programs to alternative, for-profit, and online programs to seek accreditation and meet challenging levels of performance.

• And surmounting all others, CAEP insists that preparation be judged by outcomes and impact on P-12 student learning and development—Results mat-

ter; "effort" is not enough.

CAEP's footprint is expansive and positions accreditation as a lever for change in improving educator quality and effectiveness. Currently, more than 900 educator preparation providers participate in the educator preparation accreditation system. Participating institutions account for nearly 60 percent of the providers of educator preparation in the United States, and their enrollments account for nearly two-

thirds of newly prepared teachers.

A critical part of the accreditation system is the dynamic partnerships developed between CAEP and the States on program approval, licensure, and data improvement policies to support continuous improvement. Today, 23 States require accreditation for all public teacher education institutions and 31 States require accreditation for the majority of its institutions. There is a growing interest among State policymakers in adopting the new, rigorous CAEP accreditation system to leverage change and urgent reforms; Ohio, Rhode Island, Kentucky, Illinois, and Georgia State superintendents and agencies have all begun to pave the way for implementation. tion of CAEP's new mode of accreditation. We expect others will follow suit with the endorsement of the standards by the Council for Chief State School Officers, the Chiefs for Change, and the State Higher Education Executive Officers and many other organizations.

places emphasis on evidence, continuous improvement, and innovation. CAEP aims not only to raise the performance of new teachers as practitioners in the Nation's P-12 schools, but also to elevate the stature of the entire profession. CAEP will do this by raising the standards for evidence that supports providers' claims of quality and insisting on transparency and accountability to the public. A number of recent national reports from the National Research Council, the American Educational Research Association, and the Council of Chief State School Officers² point out the glaring need for research on effective teaching practices and preparation, empirically grounded quality control systems, and comprehensive and coherent systems for collecting, reporting, and using data and outcomes-based measures to drive continuous improvement. These bodies of work provided a foundation for the development of the standards and focus on the desired outcome to advance

P-12 student learning.

CAEP will exploit the new tools recently developed to assess programs as part of its agenda to promote continuous improvement and evidence-based accreditation. Today, we have better tools for the task of building an evidence-based profession. For example, we have begun to build better State longitudinal data systems that allow us to link data from teacher education programs to data from P-12 student learning. Today, we have more rigorous State college- and career-readiness standards and will soon have a next generation of assessments to evaluate student learn-

ing of these more rigorous standards.

We also have more sophisticated statistical models to assess the impact of programs on student learning. States and districts are on-lining new value-added modeling (VAM3) and other student growth measures and there is a robust literature on their power and cautions regarding valid and reliable use of these models to assess programs. And research studies are yielding better information about what measures are the best predictors of student learning gains. For example, recent research from the Gates Foundation's Measures of Effective Teaching Project⁴ (MET) found that elementary and middle school student survey assessments and high-quality classrooms observations systems, used in combination, can be reliable measures of effective teaching.

^{\[\}frac{1}{National Research Council. (2010) Preparing teachers: Building evidence for sound policy. Retrieved from \(http://www.nap.edu/catalog.php?record_id=12882, 180. \]
\[\frac{2}{Council of Chief State School Officers. (2012). Our responsibility, our promise: Transforming educator preparation and entry into the profession. Washington, DC. 22.
\[\frac{3}{American Psychological Association Task Force, Assessing and Evaluating Teacher Preparation Programs. Accepted without revision by the American Psychological Association Council of Representatives, February 23, 2014.
\[\frac{4}{Measures of Effective Teaching Project. (2013). Ensuring fair and reliable measures of effective teaching: Culminating findings from the MET Project's three-year study. Retrieved from \(http://www.metrproject.org/downloads/MET_Ensuring_Fair_and_Reliable_Measures_Practitioner_Brief.pdf; 20. \]

CAEP is currently engaged in research to explore the possibilities of using these P-12 student surveys in assessing pre-service teachers. Advancing research and development (R & D) and innovation are strategic priorities for CAEP and we are among the first accreditors to have a commitment and committee devoted to expand-

ing our knowledge base.

The emphasis on robust evidence, continuous improvement and innovation represents a new vision and mode for accreditation. No longer can our profession rely on outmoded accreditation systems with one-time reviews every 7–10 years. The new system will demand yearly accountability and continuous improvement with frequent review cycles and annual reports by providers on their performance data that will trigger appropriate action and incentives by CAEP. No longer can our profession depend on an input-focused (e.g., syllabi, library resources, credit hours), compliance-based accreditation that allows programs to get credit for merely claiming the existence of a quality assurance system or submitting stacks of paper but little data that show graduates can teach all children. CAEP expects accredited programs to collect and report data and evidence that are meaningful, valid, reliable, and actionable. And by actionable, I mean that institutions or programs will shine a bright light on the strengths and weaknesses within their programs and their partnerships with P–12 schools, for their candidates, alumni and other stakeholders to use. And providers will use the data to inform decisions about how to improve their programs.

CAEP will not accredit low-performing programs and will identify and celebrate

outstanding programs that are making substantial contributions to the field.

The States will also need to do their part in closing down poor performers that produce ineffective educators.

Finally, CAEP must allow flexibility so that programs can take risks, re-imagine

the delivery of education, and test innovations without being penalized.

CAEP's five core standards and recommendations were based upon the best available research in the field and on lessons learned from high-performing organizations in other sectors and best practices in accreditation. The three areas of teacher preparation identified by the National Research Council (NRC) as most likely to have the strongest effects on raising student achievement are: (1) content and pedagogical knowledge, (2) clinical experience, and (3) the quality of teacher candidates. Standards 1–3 were developed in response to these areas:

Standard 1-Content and pedagogical knowledge—Candidates develop a deep understanding of the critical concepts and principles of their discipline and, by completion, are able to use discipline-specific practices flexibly to advance the learning of all students toward attainment of college- and career-readiness standards. Examples of evidence might include data from new assessments demonstrating candidates' understanding of content knowledge and direct classroom observations of candidates' ability to teach content effectively to diverse learners.

Standard 2-Clinical Practice and Partnerships—Effective partnerships and high-quality clinical practice are central to preparation so that candidates develop the knowledge, skills, and professional dispositions necessary to demonstrate positive impact on all P-12 students' learning and development. An example of evidence for this standard might include demonstration of joint decisionmaking on program improvements, co-selection of clinical educators, or use of direct classroom observation protocols to meet school districts' human capital and instructional needs.

Standard 3-Quality of teacher candidates—The quality of candidates selected for teaching is essential and preparation programs will be responsible for ensuring quality from recruitment, at admission, through the progression of courses and clinical experiences, and to decisions that completers are prepared to teach effectively and are recommended for certification. Regarding selection of candidates into a teacher education program, by 2016 to be accredited, programs will need to demonstrate that their entering cohorts of students have on average a GPA of 3.0. The same groups will need to have, on average, a group SAT score above the 50th percentile by 2016; and by 2020, on average the group must be in the top one-third of the distribution of scores on a standardized nationally normed test (e.g., GRE, SAT, ACT) test. Likewise we need a teaching force that reflects the demographics of the P-12 population. We need ethnic, racial, language of origin and gender diversity; we need more men in the teaching force. Finally programs need to recruit candidates who will meet local and national needs (e.g., special education, STEM teachers and hard to staff schools). Evidence of meeting this standard might include reporting of GPAs, nationally normed tests if candidates, and strategic recruitment plans and success rates of programs.

The remaining CAEP standards discussed below were developed from a body of research on best practices in high performing organizations in other sectors and in

accreditation.

Standard 4-Impact and outcomes-With an emphasis on assuring quality based upon outcomes and evidence rather than solely inputs, the Commission created a standard for using multiple measures for determining the impact of program completers on P-12 student learning and development, classroom instruction, and schools, and the satisfaction of its completers with the relevance and effectiveness of their preparation. This standard that providers must show evidence of completers' impact is of special significance in that providers must meet each of the four components of the standard to be accredited. To my knowledge, no other accreditor has put down such a challenging marker to hold those they accredit accountable for results. The four components are: (1) impact on P-12 student learning, (2) indicators of teacher effectiveness, (3) satisfaction of employers, and (4) satisfaction of completers.

Standard 5-Quality assurance and continuous improvement—In keeping with the dual function of accreditation, as both accountability and continuous improvement, CAEP created a standard for assessing the provider's system for assuring quality and continuing improvement through the effective use of valid data from multiple measures. Programs must demonstrate how they use their data to improve the program and its outcomes. To support continuous improvement, providers would assure that appropriate stakeholders, including alumni, employers, practitioners, school and community partners are involved in program evaluation, improvement, and identification of models of excellence.

CAEP will hold itself accountable and will study the intended and unintended consequences of implementation of the standards. CAEP will assess how well it meets its fiduciary responsibility to the public to ensure that all accredited programs provide high quality teachers for our Nation's schools.

As the committee moves forward with its legislative and policy activities in the months and years ahead, I respectfully ask that you consider the following recommendations to improve the Higher Education Act

1. Streamline Title II reporting requirements by aligning Federal program grantee reporting to CAEP's performance-based and outcome-driven measures. Currently, metrics on the title II institutional and State report cards do not capture what we need to know about program quality, outcomes, and impacts. CAEP's new program impact standard focuses on eight required data elements, including teaching candidates' impact on P-12 student performance.⁵ A streamlined, outcomesbased reporting system with common data elements would allow Federal Government, States, the accreditor, and programs to benchmark performance and identify innovations and high quality programs or aspects of programs. These exemplars might inform other providers and possibly be duplicated or even taken to scale. Specifically, CAEP recommends that title II reporting in both HEA and ESEA be aligned to CAEP's new performance-based outcome measures, along with common reporting elements new standards and on program characteristics.

2. Build Data Capacity and Reduce Reporting Requirements and Burden—Build national, State and local capacity for data quality and demand common data for benchmarking performance. This will provide an important feedback loop to accreditors, providers, policymakers and the public. CAEP recommends that the National Center for Educational Statistics develop common data definitions in educator preparation for benchmarking purposes. I also recommend continuation of investments in the federally funded State Longitudinal Data Systems grant program

with a particular focus on reporting systems for educator preparation.

3. Expand and Support Research and Development and Innovation—invest in R&D to further build knowledge about effective educator preparation targeting the Institute for Education Sciences, National Science Foundation, and the National Institute of Mental Health. Currently, I believe that less than 1 percent of money for education goes into research; compared with 20-25 percent of health budget which goes to research. As the National Research Council reported in 2010, we need better information on which teacher preparation program characteristics produce effective teachers and leaders. Continue and expand efforts to develop and improve reliable and valid assessments of effective teaching and P–12 learning and development. Like medicine years ago, education must be transformed into an evidence-based discipline and we need the tools to do that.

⁵Annual Reporting Measures include: (1) Impact on P-12 learning and development; (2) Indirather reporting heads as include. (1) impact on 1–12 tearning and development; (2) Indicators of teaching effectiveness; (3) Results of employer surveys, including retention and employment milestones; (4) Results of completer surveys; (5) Graduation rates; (6) Ability of completers to meet licensing (certification) and any additional State requirements; (7) Ability of completers to be hired in education positions for which they were prepared; and (8) Student loan default rates and other consumer information.

4. Support Accountability—We need the Federal Government to help, encourage, and monitor States who act on low performing programs, as reported in title II's State report cards. But closing weak programs is only part of the solution. Working together, States and CAEP must also move the full range of programs to get better, a shift from tolerating "adequacy" to insisting on "excellence." A full-court press by States and CAEP in collaboration is required to meet the needs of the Nation's P–12 learners. Support Innovation and Capacity-Building for major systemic changes to meet CAEP's rigorous standards. Investments in robust clinical practice models and partnerships between preparation programs and school districts will develop the capacity for programs to meet CAEP's new high expectations.

5. **Encourage States** to partner with CAEP in accreditation and program approval, and alignment of State and CAEP standards, data requirements and accountability processes. Alignment will produce coherence and reduce redundant time consuming reporting that too often in the past has not improved P-12 outcomes.

We now have a historic opportunity to do what the Flexner Report did for medical education in 1910. That report called on American medical schools to enact higher admission and graduation standards and to adhere strictly to robust scientific knowledge in teaching and research. Flexner transformed medical education making it the clinical model it is today and spurred the transformation of North American medicine into a profession. Prior to the release of that report, medical schools differed greatly in their curricula, methods of assessment and requirements for admission and graduation, and clinical preparation. These are the current challenges in educator preparation. The Flexner report had a deep and lasting impact on medical education and lifted the stature of the profession. I think all of us in this room who have a stake in improving the preparation of teachers have an unique opportunity to do the same, ultimately improving the outcomes for our Nation's students. Thank you for the opportunity to discuss CAEP's overhaul of its accreditation system and how it will positively impact preparation programs and P-12 student learning in our Nation. I look forward to answering any questions you might have.

The CHAIRMAN. Very good. Thank you very much. Dr. Koerner.

STATEMENT OF MARI KOERNER, Ph.D., PROFESSOR AND DEAN OF THE MARY LOU FULTON TEACHERS COLLEGE, ARIZONA STATE UNIVERSITY, TEMPE, AZ

Ms. Koerner. Good afternoon. Thank you for inviting me to be here. I'm going to present three imperative designs that Arizona State University uses to measure its own importance in the community.

The first is impact. If we look at the impact of our TQP grant and our teacher ed program, what we have done is leverage the TQP grant to change all of our teacher ed programs. We're one of the largest teacher ed programs in the country. So that means we have scaled up to thousands of students. It also means that since 2009, we have, through a reform of our undergraduate program, K through 8 elementary, we've impacted almost 3,000 teachers and 49,000 students in Arizona.

As one example of a partnership we've had with the school district since 1999, our first school district and our first Federal grant, we have had 16 generations of teachers, and that's a turnaround district. They attribute ASU with being an important integral part of turning around that district.

The second imperative is excellence. So when we were going for excellence in our teacher prep program, the first thing we did was reduce our education courses by 25 percent. We increased content courses, arts and science—and, Senator Alexander, what you were speaking to—but not any arts and science, not Chemistry 101 and 102, because we knew that we had to design science courses with scientists.

The Dean of Arts and Science is an internationally known scientist. He said to me that two of us were going to change the world, so this is part of my path to getting there. And we designed general ed courses that were integrated inquiry, getting a lot of wrong answers, like scientists do, to get to the right answer, not multiple choice.

So we designed a course called Forensics—I didn't design it. They designed it—where students get a virtual dead body—so far, no real dead bodies—and they figure out what happened in order to get that person to be dead. Students are signing up. One we were going to call Sex, but we decided that that might be too provoca-

tive, and I think we call it Reproduction.

We've done the same with math. We have done this in partner-ship with arts and science. We have a Nobel prize winner who designed a course in sustainability. The College of Nursing designed a course in health. We say that it takes an entire university, an entire community to prepare a teacher. So when we look at programs that don't have the resources that a place like ASU has or NYU has, or Vanderbilt—we have marshaled all those resources to prepare teachers.

One of the things we also do is we used our TIF grant, which is incentive funds, for in-service teachers, and the assessment is a performance assessment. We said if it's good enough for in-service teachers, we're going to use it for our undergraduates getting ready

to go into the classroom.

NCTQ noted us as being one of the best programs in clinical experiences because if our students do not pass their performance test twice, they are counseled out of education. They will not get certification. We do not think it's the birthright of every person to become a teacher. So we counsel them into something that they can

I was an English lit major. I never heard anybody when I read books. So I think that we can also encourage our kids to be in those

majors as well.

The last thing is access. Our program has 35 percent minority students. We graduate about 100 Native Americans every year. We are on reservations. We have right now an early childhood special

ed program on the Navajo Nation.

We also—and no one ever talks about community colleges. Access to teacher preparation is through community colleges for places like ASU. Sixty percent of our students come from community colleges. We are in partnership—it has taken a long time, 4 years. The TQP grant provided funds for community colleges, school districts, and our faculty to design content courses that their students take in community colleges that transfer to ASU, again, based on national standards.

I guess what I want to say in terms of recommendation—what my colleagues have already said—is that the TQP grant has been essential in reforming what we've done. But we have scaled it up. We have had complete buy-in from the president and the provost and the dean—me. It is not a side program. It is the program that we do.

Thank you.

[The prepared statement of Ms. Koerner follows:]

PREPARED STATEMENT OF MARI KOERNER, Ph.D.

SUMMARY

Mary Lou Fulton Teachers College at Arizona State University, an RU/VH (research university with very high research activity), is ranked #18 by U.S. News and World Report. As one of the largest colleges of education in the country, the teacher education program has about 3,200 undergraduates and 600 graduate students. In

addition we have about 2,200 graduate students in master's degree programs, an Ed. D. program and Ph.D. programs totaling 6,000+ students.

MLFTC has a record of leveraging Federal funds for systematic reform in our teacher education programs. We have implemented, studied, sustained and scaled a rigorous model of teacher preparation. We began with 7 original school district partners in 1999 and are scaling up to 29 school districts and 130 schools. We work in partnerships with other colleges at the university especially arts and science enin partnerships with other colleges at the university, especially arts and science, engineering, community colleges, public and charter schools, Teach for America, do-nors and foundations. We continue to assess our programs and improve the quality of our graduates who are overwhelmingly hired by our school partners. As a testi-mony to our innovative and replicable model of teacher preparation, in 2013 alone, we hosted over 20 institutions and State departments who were interested in learning about our programs. This includes the Iowa Department of Education which is providing funding for teacher prep programs willing to adopt our residency program. Through our intellectual resources, external funding and hard work, we increased the achievement of children all over Arizona. Specifically, we:

- Deepened subject matter by increasing content rigor with 25 percent fewer pedagogy courses in our programs that translated into more math, science, and humanities courses.
 - Address the fragmentation of content and field experience by:

Making a strong connection between clinical experience and coursework.

- Implementing a rigorous year-long student teaching residency; i.e., iTeachAZ.
- Use timely and substantive feedback to students and clinical faculty by implementing a performance assessment process—the TAP Instructional Rubric by which we can screen candidates out of teacher certification.
- Enrich learning experiences with cutting edge technologies creating interactive digital games specially designed to teach professional skills.

• Developed best practice curriculum based on best attributes of Teach for America (Sanford Inspire Program).

 Leverage resources to strengthen access to programs by creating partnerships with philanthropists and not-for-profits who provide scholarships for undergraduate students.

In 2004, the College of Education was awarded a \$9.97M "Teacher Quality Enhancement" (TQE) grant called PDS TENET from the U.S. DOE. The goals included recruitment, preparation, and retention of top quality teachers in high-poverty urban and remote districts in Arizona to increase student achievement in these disurban and remote districts in Arizona to increase student achievement in these districts. In one of the original school districts, we are preparing the 16th generation of teachers. The then-failing school district has raised its achievement to a current grade of B+ crediting much of the improvement to ASU.

Key learnings from TENET informed "PDS NEXT." In 2009, the college was awarded a \$34M "Teacher Quality Partnership" grant, NEXT. Due to Federal cuts, the TQP grant was significantly reduced over the 5-year period (receiving \$24.7M). Despite this challenge, in its final year, the project has met or exceeded its objectives including:

tives, including:

• Reforming 40 teacher prep courses in five core subjects at ASU and its 11 partnering community colleges

· Developing the model iTeachAZ Data Dashboard providing data regarding

teacher candidate performance.

• Creating the Professional Learning Library (www.pll.asu.edu), an online resource center that provides resources to inservice teachers and preservice teachers.

RECOMMENDATIONS FOR TOP

- 1. Emphasis on institutionalization and sustainability requires:
 - a. Evidence of "buy-in" from the university president, chief academic officer, dean and other colleges

b. Plans to scale the model within a given timeframe.

Articulation and demonstration of how the grant funds will include college faculty and administrators in the structure of the project and in the curriculum redesign.

2. Integrate with existing academic programs and their faculty to achieve program

quality and maximize grant impact.

3. Include undergraduates in "residency" programs because currently the Federal Government only allows stipends for graduate students.

Chairman Harkin, Senator Alexander and members of the subcommittees, thank

you for inviting me to talk with you about teacher preparation.

Much of what we do at Arizona State University is guided by a vision of an activist President, Michael Crow and the compelling charge to make the world a better place. We take pride in our students. Often children of families who have struggled to create a path for them to go to college, they are the first college bound generation and ASU is their "dream" school. Without hyperbole, they are living proof of the American Dream. Our students aspire to become teachers and see teaching as a life-long profession. President Crow's vision is compelling and serves as a charge for our

To establish ASU as the model for a New American University, measured not by who we exclude, but rather by who we include and how they succeed; pursuing research and discovery that benefits the public good; assuming major responsibility for the economic, social, and cultural vitality and health and wellbeing of the community.

Many teachers come from working class families and teaching becomes a way for them to enter middle class. I am one of those stories; child of an Italian immigrant who only finished 8th grade and yet had a daughter move through public education to receive a doctorate and become a dean of a college in a top notch university. I went to Chicago Public Schools and the University of Illinois at Chicago. And then became a teacher through what would now be called an "alternative route." Even though I was always successful academically and graduated from college, through double promotion, at 19 years old, I can say with confidence, I had no clue how to teach. Perhaps the reason I value what we do in Mary Lou Fulton Teachers College is because I had to learn the hard way—through trial and error—while the students in my classrooms waited for their teacher to get to be just even good enough.

I take great pride in who we are and what we do at ASU. I cannot emphasize enough that we have the full support of the President, the Provost and Deans of all the other colleges. I have never been told to "slow down," "take it easy," "what are you doing!" And because of that, our college has built on a strong history of teaching, service and research to prepare the best teachers and researchers, fulfilling our mission: "to be a constructive force in education" which sets a "new standard for teaching, discovery and innovation." We have built, in my opinion, the college of the 21st Century where research guides what we do but does not slow us down. Where "scaling up" is necessary because why would we do pilots when only a few of our students could get the best practices? And where we understand making mistakes means you are moving beyond discussion to action. We realize we need a lot of people as partners, including and especially the Federal Government and their resources because we have a track record of leveraging those funds to make systematic reform in our teacher education programs.

Mary Lou Fulton Teachers College at Arizona State University, an RU/VH (re-

search university with very high research activity), is ranked #18 by U.S. News and World Report. As one of the largest colleges of education in the country, our teacher education program has about 3,200 undergraduates and 600 graduate students. In addition, the college also has about 2,200 graduate students in master's degree pro-

grams, an Ed. D. program and Ph.D. programs totaling 6,000+ students.

A BRIEF HISTORY

Our history is part of who we are and the very identity of the entire University. Here is a brief timeline which shows the cultural and core importance of our college to the university.

1886: Arizona State University was founded as a Normal School in the Territory of Arizona, the first institution of higher education in Arizona, and was established to train public school teachers and also teach "husbandry" (agriculture) and the me-

1925: The Normal School, with 41 faculty members and 672 students, became the Tempe State Teachers College with the power to establish a 4-year college curriculum offering a Bachelor of Education. A 2-year curriculum was also offered, leading to a diploma to teach in Arizona elementary schools, and in an additional 2 years earned a Bachelor of Education degree.

1928: The Bachelor of Arts in Education was authorized. Students completing a 4-year course were eligible for graduate work in education at a university, and would receive secondary certificates permitting them to teach in Arizona high schools. The requirement for diploma and grade school teaching certificates increased to a 3-year curriculum.

1958: The people of Arizona voted two-to-one on a State ballot proposition changing the name of the institution to Arizona State University. The College of Edu-

cation was one of the four core colleges of the university

2009: The College of Teacher Education and Leadership (CTEL) and the School of Education Innovation and Teacher Preparation are merged along with all of the teacher preparation programs at Tempe, encompassing all initial teacher certification (undergraduate and graduate). Already having programs on the Downtown Campus, CTEL now had programs on four campuses.

2010: The College of Teacher Education and Leadership and The Mary Lou Fulton Institute and Graduate School of Education merged to impact education locally, nationally, and globally and were re-named The Mary Lou Fulton Teachers College,

the college we are now.

These are our current demographics of our students:

	Under- graduate
American Indian/Alaska Native	87
Asian	98
Black/African-American	118
Hispanic/Latino	696
International	17
Native Hawaiian/Pacific Islander	7
Two or More Races	81
Unspecified	21
WHite	2,030
Grand Total	3,155

TEACHER EDUCATION PROGRAM TODAY

Over the last decade, we have implemented, studied, and scaled a rigorous model of teacher preparation that can be replicated nationally. One of our main goals in improving our teacher preparation program was to increase the rigor of our coursework, which included adding more mathematics, science requirements and humanities (especially for elementary majors). In the past, students were required to take only 1 upper division math course (a methods course), and three lower division courses—two of which were focused on mathematics pedagogy and not content.

Often the issue of articulation with community colleges is overlooked. But, approximately 60 percent of our undergraduates transfer from community colleges. There are 11 community colleges from which most of our transfer students come. It is very important that we collaborate with the community colleges, especially regarding curriculum. We have little control of the curriculum or instruction the transfer students receive in their first 2 college years, so a major part of our college's undergraduate transformation involved maintaining open lines of communication with the community colleges.

Five years ago we embarked on a process of revising lower division (100–200 level) course work for our teacher preparation program (funded by TQE grant). Most of the community colleges participated in this process that resulted in 40 new courses, many of which are now a part of our and the community colleges' required curriculum. As a result, our college and many community colleges now have a number of courses that are substantially identical, making transfer from community colleges to ASU much more streamlined. Mathematics, however, was the area that proved to be the most difficult to align between the community colleges and our college.

The community colleges, math faculty from Arts and Sciences, as well as MLFTC faculty collaborated to design the new required mathematics courses. This took a lot of relationship and trust building. The new courses are aligned with the Common Core and research-based best practices for teaching mathematics. Even though some community colleges helped design the courses, there was significant resistance to adopting them for their own programs. The new courses are more difficult than the old courses and they do not have a pedagogical component—they are content

only. We at ASU were persistent in communicating our vision for elementary teachers who are prepared to teach math to serve 21st Century needs. We conducted meetings with the community colleges, visited the community colleges, met informally as well as formally, and met with mathematics leaders from the other State universities to demonstrate the need for changes to math curriculum for teacher preparation. We also extended our hand to help the colleges revise their courses. We listened to their concerns and made some revisions to the courses based on their insights. The community colleges eventually adopted our vision for mathematics and have started to revise their courses to align with ours. The result of our collaborations with the community colleges concerning their curriculum is a generation of new teachers who are more equipped to teach mathematics than previously, especially at the elementary and middle school levels in Arizona.

In addition, we made changes to our required science curriculum. The Dean of College of Liberal Arts and Science and I agreed to work together to revise the general education science courses to have them be more appropriate to what PreK-8 teacher will teach. The collaborative nature of this process has been challenging. I quickly realized that it was a revelation to the scientists that there were "standards" that teachers actually had to engage. ASU is not unique in this respect—it's a challenge to get scientists anywhere to look beyond the lab. But as a result of building these courses, our scientists at ASU are now much more aware of what happens in K-8 and much more interested in looking at undergraduate science education as part of a continuum of learning. Framing our courses with the standards helps us reinforce that we are building on the good, important work being done at the K-12 level. The great thing about our courses is that they both reorient undergraduate science education and, thus, extend the continuum of science education, take steps to enhance the impact of K-8 teachers earlier in that continuum.

We ended up with Reforming Science Education for Teachers and Students (ReSETS) initiative is a unique collaboration of world-class research scientists from ASU's College of Liberal Arts and Sciences and science education and curriculum experts from the Mary Lou Fulton Teachers College. ReSETS builds on the recognition that the quality of local, State, and national policy, as well as the vitality of future science innovation, relies on our ability to grow better non-scientists. ReSETS is developing new science courses geared toward building science literacy in nonscience major undergraduates, in general, and better serving the needs of preservice teachers, in particular. The courses break with the traditional discipline-based model of general education in a number of key ways.

ReSETS serve as a model and include:

- Transdisciplinary focus.
- An exploration of the connections and concepts that cut across the natural sciences.
- Stress the nature of science and science process skills, rather than disciplinary minutiae, is stressed.
- A linkage to emerging State and national science standards, such as the Common Core and the Next Generation Science Standards.
- Utilization of new tools to increase student engagement and assess science literacy (examples: Digital labs and Science Literacy Concept Inventory).

These design features make ReSETS courses stress science as a way of knowing and reducing the unknown. Such a framework better serves future K-8 teachers, who need to impart the nature of science and science process skills within a standards-based context. It also benefits non-science major undergraduates for whom general science literacy is crucial to functioning as informed citizens in today's global community.

In addition to ReSETS, all majors are required to take a new course, Sustainability Science for Teachers. This course was designed in collaboration with the School of Sustainability. Our Nobel Prize winning scientist, Dr. Lee Hartwell, designed the course; He and his team work with MLFTC faculty in teaching it. In the course, students learn about sustainability science content while grappling with global issues involving water, food, fuel, and other real issues facing the world at large. It is geared toward giving undergraduate teaching candidates the necessary knowledge and skills related to the challenges of improving human health and wellbeing while reducing human exploitation of natural resources. It is offered in a hybrid format—half of the class is delivered online, while the rest is delivered in the traditional face-to-face format.

Bringing in the School of Nursing, another addition to our curriculum is a Health Literacy course. Faculty in education and nursing created this course collaboratively. The course requires education majors to examine issues in health, nutrition, exercise, and healthy living. Like the sustainability course, it is delivered in an online format.

Collaborations among our college, the community colleges, the other State universities, and other colleges in ASU (especially arts and sciences) were necessary. We believe it takes a whole university and partners to create excellent teachers.

YEAR LONG RESIDENTS—ITEACHAZ AND TQP

The college has a long history of leveraging Federal grant funds to make systematic change in the way it prepares future teachers. In 2004, the college was awarded a \$9.97 million "Teacher Quality Enhancement" (TQE) grant called PDS TENET from the U.S. DOE.

The objectives of the TQE grant were to:

- Objective 1: Recruit, prepare, and retain high-quality teachers in seven high-poverty urban and remote districts in Arizona using a Professional Development School (PDS) model.
- Objective 2: To ensure high-quality teaching and increased student achievement in these districts.

In 2009, Teachers College was awarded a \$34 million "Teacher Quality Partnership" grant called PDS NEXT. To prepare teachers in school districts using the Professional Development School model where students spend their entire teacher preparation program in a school district taking courses while simultaneously completing clinical experiences. While the TQP award was welcomed by the college, we soon realized that we needed to re-examine both our grant-funded and college programs with the goal of creating one college-wide program built upon the strengths of each and the needs of the preservice teachers we serve. I want to be very clear that TQE was the driver behind thinking about everything we do in teacher education. Once we started to integrate it into our college, it was like a Dominoes game.

Improving clinical experiences meant we had to think about improving content which meant we had to have positive relationships with Arts and Science faculty, which meant we had to recruit students differently and on and on.

By the fall of 2010, college leadership and faculty had agreed on the components of our reformed teacher preparation program. Utilizing key learnings from the TQE PDS TENET grant and initial findings from the PDS NEXT grant, we redesigned our teacher preparation program in a way that met the mission of the Mary Lou Fulton Teachers College and the students it serves, the needs of our school district partners and the students they serve, the knowledge and research of our respected and internationally recognized faculty members, and the vision of ASU, the New American University, which encourages entrepreneurship and innovation.

iTeachAZ began in 2010 with a pilot of 30 students in three school districts. By the fall of 2011, we expanded iTeachAZ to include 436 students in 189 schools across 28 districts, many of which educate Arizona's most underserved students. We now have 589 students in 130 schools across 29 districts.

The signature component of iTeachAZ is a Senior Year Residency. The Senior Year Residency (SYR) fully integrates coursework and apprenticeship without increasing the amount of time it takes to earn a bachelor's degree. During the SYR, Teacher Candidates spend 4 days each week in pre-Kindergarten through 12th grade classrooms and 1 day completing pedagogy courses delivered at partner schools. Full-time, tenured and clinical faculty members deliver these courses at the school site with the intent of providing Teacher Candidates with just-in-time opportunities to draw meaningful connections between their daily work in P–12 classrooms and the latest in education theory and research.

The rapid scale-up of the iTeachAZ model required leveraging grant and college resources, engaging and training faculty in the new model, changing the ways in which we partnered with local school districts, and securing additional financial support for our teacher candidates so they could participate in the rigorous new program which required them to complete a full-time, 40-plus hour per week senior year residency prior to graduation. It required a commitment to challenge the status quo in teacher preparation, a license to innovate, an entrepreneurial spirit, and renegotiating university school partnerships with the focus on preparing a better brand of educator; one who can face the challenges of educating diverse groups of P–12 students in Arizona's schools and beyond.

The iTeachAZ model is designed to capitalize on the opportunity of having multiple adults in the room by having Teacher Candidates act as co-teachers in the classroom, under the guidance of highly qualified mentor teachers. With two adults working together in the classroom pre-Kindergarten through 8th grade students are afforded more opportunities for individualized attention, which will ultimately boost

the achievement rates of Arizona's school students. We are now expanding to sec-

ondary programs.

Teacher Candidates begin their SYR when new teachers in the district report for duty and follow the district calendar for the remainder of the year. The SYR experience is designed to provide Teacher Candidates with an opportunity to experience the rhythm of a full school year while learning the range of professional responsibilities inherent to the teaching profession. While in the classroom, Teacher Candidates work with Mentor Teachers who have undergone an application process, are selected by both the school and university, and complete special training in coaching and mentoring student teachers. In addition to co-teaching with mentor teachers and taking pedagogy courses, Teacher Candidates participate in district-sponsored professional development, faculty meeting, professional learning communities, parent-teacher conferences, and school-wide events such as open houses, athletic competitions, and musical performances that occur after school hours.

Collaborative supervision and mentoring are hallmarks of the iTeachAZ program. During the senior year residency, ASU faculty, mentor teachers, district specialists, and administrators work together to prepare program graduates to be effective teachers who focus on student achievement and ultimately, remain in the teaching profession. Figure 1 shows the organizational structure of all iTeachAZ partnerships. As illustrated, achievement of P–12 students is central to all activities undertaken by the partners. Together, the components of the iTeachAZ partnership ensure a dynamic environment for teaching and learning which is responsive to the

needs of all participants.

iTeachAZ Partnership Model

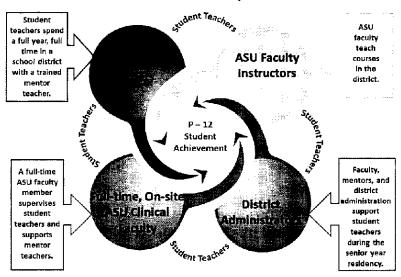


Figure 1. iTeachAZ Organizational Structure.

We see districts as full and responsible partners. School districts provide Teachers College with a district liaison, an onsite classroom in which Teacher Candidates complete coursework and highly qualified mentor teachers to support 25 to 30 Teacher Candidates per year. The role of the iTeachAZ Mentor Teacher is to serve as a coach who models and plans effective best teaching practices, creates a supportive classroom environment where Teacher Candidates are encouraged to take risks, and observes and provides specific feedback to Teacher candidates to ensure the preparedness of Teacher Candidates who enter the teaching profession as highly effective, reflective teachers. Mentors benefit from the partnership by leveraging the opportunity of having additional instructional leaders in the classroom to positively impact student learning. Additionally, mentor teachers hone leadership, coaching, and supervisory skills while hosting Teacher Candidates.

Teachers College provides a full-time, onsite faculty member, known as a Site Coordinator, who works in the district supporting both Teacher Candidates and men-

tor teachers. The iTeachAZ coordinator teaches two courses, supervises 25–30 Teacher Candidates, serves as the college liaison for the partnership, and provides support to the mentor teachers involved in the program. Furthermore, Site Coordinators host quarterly governance meetings with district administrators to provide program updates and discuss ways in which to enhance the partnership. While the members of the Governing Board vary in each iTeachAZ partnership, the general make-up of iTeachAZ Governing Boards include the Site Coordinator, the district Superintendent or designee, a district Human Resource specialist, and principals of mentor teachers hosting Teacher Candidates.

In addition to hosting Governing Board meetings, Site Coordinators also hold monthly meetings with mentor teachers and ASU faculty. These meetings focus on data talks where ASU faculty and mentor teachers work together to evaluate Teacher Candidate progress. Mentors also receive professional development on self-selected topics of interest to support their work with both Teacher Candidates and P–12 students. District partners compensate the mentor teachers for participating in the partnership and professional development opportunities provided by Teachers College faculty. Teachers College provides mentor teachers with a six-credit tuition waiver which may be used as payment for any course offered by ASU's 15 colleges.

waiver which may be used as payment for any course offered by ASU's 15 colleges. During the SYR, Teacher Candidates participate in a consistent cycle of observation, feedback, and coaching by ASU Clinical faculty and highly qualified mentor teachers. Each iTeachAZ Teacher Candidate is observed and evaluated four times per year by ASU faculty, using eight domains from the TAP Teaching Skills, Knowledge and Responsibilities Performance Standards Rubric (National Institute for Excellence in Teaching, 2013). Each of the indicators on the TAP rubric is scored from 1 to 5, with 1 indicating unsatisfactory performance, 3 indicating proficient performance, and 5 indicating exemplary performance.

This rigorous competency-based evaluation process is different from those used in traditional teacher preparation programs. All teacher candidates are required to reach proficiency (i.e., score of 3) in all indicators in order to successfully complete the program. If a teacher candidate is not making progress toward proficiency in the first semester of clinical experiences, the site coordinator, mentor teacher, and teacher candidate work together to develop and implement an intervention plan to support the teacher candidate's development. If a teacher candidate does not demonstrate proficiency by the end of the second semester, he or she will be given the option to repeat the residency or transfer to the college's non-certification <code>Educational Studies</code> program.

The SYR, new curriculum, and close partnerships with community colleges and multiple school districts across Arizona have all been a departure from the way ASU previously educated teachers. As a result of our bold initiative, the Mary Lou Fulton Teachers College is being recognized as a leader in educational reform. Education Week featured iTeachAZ in an article in fall 2011 (http://www.edweek.org/ew/articles/2011/11/16/12azteach_ep.h31.html), and in a recent review of 2,420 teacher preparation programs across the country, NCTQ awarded iTeachAZ four out of four stars for our reformed student teaching experience (http://www.youtube.com/watch?v=u_Tw_ki0kks). Additionally, faculty and administrators from 20 colleges of education, each accompanied by school district administrators, have visited Teachers College to learn about the components of the iTeachAZ program. This includes the Iowa's Department of Education which is providing funding for teacher prep programs willing to adopt our residency program. These universities look to iTeachAZ as a model for reforming their teacher education programs to address the challenges of preparing teachers to educate who can meet the needs.

EXAMPLES OF INNOVATIVE PRACTICES

Quest2Teach is a series of game-infused virtual learning environments unified by a social-professional network, designed specifically for teacher education as a means to bridge between educational theory and its application in the field. In Quest2Teach (Q2T), future educators engage their virtual personae in authentic teaching practices, making continual decisions with immediate individualized feedback, with the ability to fail safely, play again, and achieve success in their personalized narrative as the protagonist. In-game meters and analytics are fed back into the larger professional network to evolve their real-world identity across semesters and student teaching, leveraging badges and gamified achievement layers in order to track, validate and inspire real world reflection and collaborations with digital colleagues, locally and internationally. Quest2Teach is the first of its kind in the practice of teacher education, and created in-house at the Mary Lou Fulton Teachers College (MLFTC) through a unique collaboration of Learning Scientists, Faculty, and our partner game-design studio. Design-based research with hundreds of

MLFTC students has shown significant learning and engagement gains in Q2T. Moreover, students report an increased sense of confidence in their teaching, higher fluency in being able to discuss and engage in these practices, and learning how "to actively do" (rather than "know about") these theories in practice. Quest2Teach was recently awarded ASU's President's Award for Innovation, and was also selected and filmed by the Joan Ganz Cooney Center (Sesame Workshop) to be featured in

their upcoming documentary of innovative teaching practices.
Sanford Inspire Program (SIP) at Mary Lou Fulton Teachers College has also leveraged private funds in our reform efforts. The Sanford Inspire Program has developed innovative ways to attract, prepare, and support excellent teachers. We have developed new messages and practices for reaching out to an expanded pool of high school students to share information about careers and leadership opportunities in the field of education. The Sanford team collaborated with faculty to design resources including a collection of protocols used by instructors to help teacher candidates make the important connection between what they learn in courses and what they do in their classroom placements. The Sanford team has also supported college-wide efforts to increase the rigor and relevance of clinical experiences. This includes redesign of field experience courses and creation of training for mentor teachers who play a significant role in the development of our new teachers. The Sanford Inspire Program has created dozens of resources to support teacher candidates in their coursework, all of which are available to other programs via the Professional Learning Library. The team is now working to create online resources that will allow school leaders and teacher educators to provide differentiated professional development to teachers to support continuous improvement. While funding for this work came from a private donor, all efforts are integrated with the college and will be sustained once funding has ended.

TOP (TEACHER QUALITY PARTNERSHIP) AT MLFTC IN 2014 WITH SUSTAINABILITY

The TQP grant (currently in Year 5 of 5 includes the following three objectives:

- Increase the subject-area competency of ASU-prepared teachers through the reform of 40 lower-division subject area courses as part of the Teaching Foundations Project.
- Increase the clinical competency of 600 ASU-prepared teachers through the iTeachAZ model (year-long student teaching residency, clinical faculty housed at school sites, a rigorous performance assessment process, co-teaching model, professionalism rubric).
- Work with partner districts and the National Institute for Excellence in Teaching (NIET) to turn around at least 25 historically struggling partner district schools in nine districts and create sites of exemplary teacher preparation in hard-to-staff

Due to Federal cuts to education spending, the TQP grant was significantly reduced over the 5-year period (receiving only \$24.7 million of the planned \$34 million). Despite this challenge the project has met or exceeded its objectives in the following ways:

- The project not only implemented reformed teacher preparation for 9 original grant partners, but created a model that is now being used for all undergraduate teacher preparation programs at Mary Lou Fulton Teachers College. The project expanded its partnerships from 9 urban and rural partner school districts to 28 partner districts across the State of Arizona. The project exceeded its goal of training 600 teachers and has currently trained more than 1,500 exemplary new teachers through the rigorous residency-based teacher preparation model.
- The project developed the iTeachAZ Data Dashboard and Mobile Data Collection App that provide accurate, timely data regarding teacher candidate performance. This dashboard system is a model for other teacher preparation programs.
- Developed the Professional Learning Library (www.pll.asu.edu), an online resource center that provides resources to in-service teachers, ASU instructors, mentor teachers, and teacher candidates aligned to the iTeachAZ model. The PLL also serves community partners, district partners, and other agencies.
- Implemented the Teacher Assessment Performance (TAP) rubric to evaluate all of our candidates.

I cannot emphasize the impact of the Federal Government role in the success of our programs. Not only have the additional resources been important, the ideas and plans we have had to implement, the support of the program officers, the need to bring in other thought partners has helped define our reform efforts. I have planned to sustain the grant resources by slowly moving positions into college budget lines

and extending the impact by finding ways to keep many of the personnel in their roles.

EVALUATION OF PROGRAM AND STUDENTS

The TAP rubric, used with in-service teachers as part of the Teacher Incentive Fund (TIF) grant does appear to be an important contributor to and a valid measure of teacher influence on student achievement and their decision to remain at their school. As a result, we use a modified TAP rubric as a tool to measure effectiveness during the senior year residency, and as a potential predictor of future effectiveness once in a classroom. Overall, TAP scores of iTeachAZ teacher candidates are impressive, with students in their final semester typically scoring what veteran teachers in TIF schools score.

- \bullet When comparing observation scores, teacher candidates show teaching skills comparable to veteran teachers. Specifically, scores on Instructional Planning and Activities/Materials were almost identical (teacher candidates, N=489, compared to experienced teachers, N=1,442).
- During their senior year residency, MLFTC teacher candidates achieved an average score within the Proficient range on each of the eight performance indicators measured by the TAP rubric.

Teacher candidates, on average, have an overall observation score of 3.17 which is higher than the overall average of 3.04 for in-service teachers (N = 1,669) in a related ASU grant.

We have systematically worked within ASU and community colleges throughout the State of Arizona to increase rigor in freshman and sophomore level classes. Effective in Fall, 2011 we have strategically reformed 147 classes in English, Math, Science, Social Studies, and the arts. Over 2,500 students have been impacted by these classes that strive to increase content knowledge in core areas for future teachers.

We use several strategies to gain information about the performance of our students post-graduation including: (a) our graduates' performance on State certification tests, (b) value-added statistical analyses of our graduates' student achievement, (c) career ladder progression, and (d) principal perceptions of our graduates as compared to a State average.

The most recent AEPA scores indicate that 98.5 percent of our teacher candidates achieved proficiency and became eligible for Arizona certification. Our graduates' pass rate was higher than the State average in Social Studies and equal to the State average in Elementary Education, English, Art, Music, Special Education, and Secondary Professional Knowledge. Scores of the Secondary Professional Knowledge assessment, revealed that the pass rate of ASU teacher candidates was slightly higher than the State average.

Recently the Arizona Department of Education asked 1,200 principals to evaluate their beginning teachers on a variety of essential teaching skills. As can be seen in Table 1, our graduates outperformed the State average on every indicator.

Table 1.—Percent Meeting or Exceeding Principal Expectations For Beginning Teachers (N = 1.197)

	ASU	Arizona
Demonstrates in-depth knowledge and understanding about the subject(s) he/she teaches	87.8	86.4
Creates a classroom environment conductive to student learning	83.5	81.9
Designs lessons aligned to the academic standards	88.5	86.3
Implements research-based learning theories and instructional strategies	80.5	77.8
Uses a variety of developmentally appropriate strategies to engage students in their learning	80.7	78.6
Uses a variety of appropriate strategies to support literacy development	79.1	78.3
Effectively integrates technology into instruction to support student learning	80.3	78.9
Incorporates English Language Development (ELD) standards into instruction	74.0	72.7
Uses multiple methods for assessing student learning	82.9	81.5
Differentiates instruction to meet the learning needs of all students	75.5	73.9

Note. Sixty-three percent response rate.

In 2011–12, 556 (67.3 percent) Teachers College graduates served in 318 AZ Title I schools, which is 26.0 percent of the total AZ Title I schools (according to the 2012 ED Facts State Profile for Arizona released by the U.S. Department of Education).

In other words, there is a recent MLFTC graduate employed in approximately one out of every four Title I schools in Arizona.

The Arizona Department of Education projects that new high school requirements have led to a statewide shortage in math and science teachers. The Mary Lou Fulton Teachers College has responded to this challenge by producing 126 certified or licensed secondary math and science teachers during AY 2011–12 alone. As illustrated in the graphs below, our math program enrollment has seen an 11-fold increase from 2007 to 2012 and science program enrollment has seen even more growth, with an 86-fold increase from 2007 to 2012.

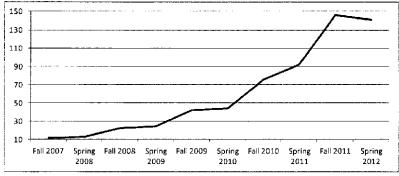


Figure 1. ASU Teachers College students enrolled in a math program.

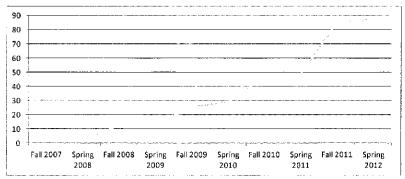


Figure 2. ASU Teachers College students enrolled in a science program.

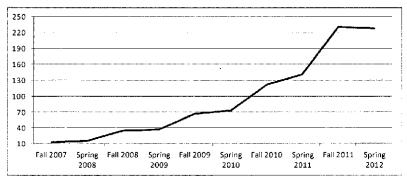


Figure 3. ASU Teachers College students enrolled in a math or science program.

RECOMMENDATIONS FOR TQP

Based on our experience in leveraging Federal funds to reform the largest teachers college in the Nation, we do have recommendations for improvements to the Higher Education Act to help institutions of higher education strengthen their teacher preparation programs:

- 1. Emphasis on institutionalization and sustainability requires:
 - a. Evidence of "buy-in" from the university president, chief academic officer, dean and other colleges

- b. Plans to scale the model within a given timeframe.
 c. Articulation and demonstration of how the grant funds will include college faculty and administrators in the structure of the project and in the curriculum redesign.
- 2. Integrate with existing academic programs and their faculty to achieve program quality and maximize grant impact.

3. Include undergraduates in "residency" programs because currently the Federal Government only allows stipends for graduate students.

MLFTC has worked through obstacles to improve the lives of children in schools all over the State. There are many lessons learned.

They include:

1. Using TQP to scale up rapidly with no excuses.

2. Some people don't want to be part of a reform effort so they chose to do other

Team effort is not a slogan but a necessity.

4. This work has become more difficult with the de-professionalization of teachers.

5. We are fortunate to be teachers.

The CHAIRMAN. Thank you, Dr. Koerner. Mr. Daly.

STATEMENT OF TIMOTHY DALY, PRESIDENT OF THE NEW TEACHER PROJECT, BROOKLYN, NY

Mr. DALY. Good afternoon. Thank you, Mr. Chairman and members of the committee, for having me here today. As you heard in the opening, I work for The New Teacher Project, which is a nonprofit organization that works with districts and States on basically one problem: If we all agree that low-income and minority students should have access to effective teachers, what would it actually

In a bunch of ways, our organization is different than some of the other folks represented up here. I'm a little bit embarrassed to be the only one that's a Mister instead of a Doctor, compared to my colleagues at the table. But part of that is because our design is not to be housed in an institution of higher education, but rather to work on the ground with districts and States and to partner with them to find teachers that can be successful in low-income communities.

So there's a few things that you should know about us. First, we don't believe that teachers are the problem but the solution. And we have a nerdy, unbridled passion for helping people learn the art of great teaching.

Second, we are not an institution of higher education. We're a nonprofit organization founded by and composed primarily of former classroom teachers. We don't focus on credits or seat time. What matters to us exclusively is how our teachers perform when they're in the classroom.

We do not have a collection of permanent faculty members with terminal degrees. It's more important to us that the folks who are instructors in our programs were effective teachers in the recent past. So we're looking for folks that have been out of the classroom no more than a couple of years, who know what today's current realities are and who also understand today's current learning standards.

We work at scale to prepare the teachers that our districts need. Since 1997, we have prepared over 50,000 career changers and recent college graduates for the classroom. Almost all of those folks teach math, science, special education, or bilingual education.

We diversify the workforce. One of the things that our programs are particularly successful at doing is attracting African-American,

Latino, and male candidates into the profession.

We believe that we are accountable for the results of our graduates, and we track the results of our graduates. Once they enter the classroom, we assess each one of our teachers across multiple dimensions, and only those who are getting results in the classroom are permitted to have a career in education.

So just to be clear, our relationship with our teachers does not end when they become teachers. In their first years in the classroom, we assess them, and we refuse to give them permanent certification if they're not doing a good job. That means that the districts can no longer employ them. I'd be happy to talk more about that.

It is sometimes a tug of war with our districts because they want to keep many of the folks that we prepared that we do not believe should continue teaching. But for us, that was the only way that we could ever be confident that we were putting our name to folks who are going to do right by students in the long term.

We evolve our programs rapidly based on what we see in the field. Because we have more information now than we ever had before about what's going on with our teachers, including surveys of their own students, it means that each year, we make changes to

our training.

We care deeply about how our teachers perform in the classroom, and we believe that policymakers should, too. Currently, though, as you all have heard already, I think, from the other folks, the Federal oversight of teacher preparation has focused on tracking various inputs and process milestones. But decades of research have not shown very much of a relationship between the things that we currently track and performance in the classroom.

So as a field, we actually know way too much about who enters the teaching profession and not nearly enough about what happens when they get there. So, in short, we're tracking the wrong stuff. There have been a lot of great ideas—I think you heard some of them already—to change this. Senator Bennet has a great bill called the GREAT Act that would push us in that direction as well.

But there are two things that I would ask you to consider today. One is to make a grand level swap around title II. And instead of saying, "Which stuff could we cut out of title II reporting," start with a blank slate and say,

"Do we need to know any of this stuff that we're currently collecting under title II, and how much of that would we give up if we could know one thing, which is can we establish that every program that prepares teachers needs to know how they perform in the classroom and needs to be able to track that on an ongoing basis?"

I think there are limits to how much from here you want to tell them exactly and what they must do with that information. But most universities haven't the slightest ability to know, because, as we've heard, people teach across State lines, people teach in large districts, small districts, and in many of those districts, there's no effort currently to collect that information.

It's much easier for us because we tend to work with large districts. So we know that if we recruit teachers for Chicago, those teachers are going to be in Chicago public schools. We can go to Chicago public schools and find out how they're doing. It would be much more difficult if they were in Wisconsin and Michigan and Indiana as well.

I think the one role that you all uniquely can play is to make it possible for programs to get information on how their candidates are doing on a short-term basis so they can incorporate that. I would trade almost everything that's currently in title II if we could get that.

The second major change is around title IV. We now have so many different kinds of programs that did not exist a generation ago. You've heard about the effort for the CAEP standards to apply to all of them, which I think is a great idea. But alternative programs that are not based in universities face a couple of permanent structural disadvantages when it comes to making access to teaching affordable.

One of them is that our candidates do not qualify for Federal financial aid. So in many States, we can certify the teachers, we can provide them their course work, we can decide whether they have a job or not, but the costs that the candidates incur to go through the program—they cannot get financial aid to subsidize those costs. That means that there are States where some of the highest performing programs are out of reach of financial aid.

We also, for example, in our programs can give AmeriCorps education awards to the candidates that go through our program as an incentive for them taking on a life of service as teachers. However, they cannot use those AmeriCorps education awards to offset the cost of becoming certified through our programs.

So we often have folks who are mid-career, who worked hard to pay off their loans, and then when they got to the point where they wanted to enter teaching, they were unable to use the AmeriCorps awards that they were using to offset those costs. So they end up holding an award that went unused and paying out-of-pocket.

If we could accept AmeriCorps education awards, and if our candidates had access to financial aid, we could grow and expand to many more places. Without those sorts of things, there's simply going to be a ceiling where the economics of moving into rural areas, the economics of moving into areas where the district cannot pay the cost of creating teachers will limit where we go and what we do.

Thank you.

[The prepared statement of Mr. Daly follows:]

PREPARED STATEMENT OF TIMOTHY DALY

My name is Tim Daly, and I am the president of TNTP, a national non-profit dedicated to ending the injustice of educational inequality. Founded in 1997 as The New Teacher Project, we work with schools, districts, and States to provide excellent teachers to the students who need them most and to advance policies and practices that ensure effective teaching in every classroom. We are one of the Nation's largest teacher preparation programs, having trained over 50,000 educators to serve in lowincome communities.

We have learned one thing above all: it is very difficult to predict in advance who will be successful in the classroom, but a teacher's early track record is an exceptionally good predictor of his/her later effectiveness. Teachers who start strong are able to grow quickly with experience; new teachers who struggle with critical skills like classroom management rarely learn how to do it over time.

We therefore recommend two major shifts as Congress considers reauthorization of the Higher Education Act:

1. Congress should redesign the accountability measures for teacher preparation providers, replacing the current focus on admission criteria and program completion to instead emphasize whether the candidates those programs prepare are effective once they are in the classroom, replacing current measures that focus on program admission and completion. The true measure of a program should be the performance of its graduates with real students in real schools.

2. Congress should embrace and support high-quality, non-university preparation

providers—those with a track record of success and a commitment to diversifying the new teacher pool—by enabling participants in such programs to access Federal student aid. At present, some of the most successful teacher pipelines available to districts face a permanent, structural disadvantage relative to traditional university

programs.

IN SUMMARY

We believe that we-and other innovative teacher preparation programs, traditional and alternative—are rapidly discovering new approaches to better prepare teachers for success early in their careers. As Congress considers reauthorization of the Higher Education Act, it should take this moment to reset expectations for all programs to account for these new discoveries: demanding data that focuses on the outcomes that really matter—student success—and enabling teacher candidates to access the same set of financing tools regardless of where they seek their preparation. We look forward to helping Congress in any way to make such changes, and I look forward to your questions today.

Thank you Mr. Chairman and members of the committee for having me here

My name is Tim Daly, and I am the president of TNTP, a national non-profit dedicated to ending the injustice of educational inequality. Founded in 1997 as The New Teacher Project, we work with schools, districts, and States to provide excellent teachers to the students who need them most and to advance policies and practices that ensure effective teaching in every classroom. Given our organizational mission and work, we are pleased to have the opportunity to share our expertise in preparing teachers for early career effectiveness, and to offer suggestions for how Federal policy can encourage all programs to adopt policies that promote great teaching and enable successful programs to grow.

TNTP is one of the largest teacher preparation programs in the United States. To date, we have recruited or trained more than 50,000 teachers to work in some of the highest-need schools in the country. Through this experience and through research into teacher performance across several large districts, we have learned one thing above all: it is very difficult to predict in advance who will be successful in the classroom, but a teacher's early track record is an exceptionally good predictor of his/her later effectiveness. Teachers who start strong are able to grow quickly with experience; new teachers who struggle with critical skills like classroom management rarely learn how to do it over time. This is true whether we looked at our own teachers or those prepared by other programs.

Given that evidence, all teacher preparation programs should focus on helping teacher candidates master the skills they need to create a positive learning environ-ment from their very first day in the classroom. There is no standard program design that will guarantee excellence—teaching is too complex to follow a rote training model—but we are certain that the current measures that Congress requires to track programs under title II do not tell us whether programs are succeeding in their missions, and don't encourage States to set meaningful bars for quality in the

preparation programs they approve.

We therefore recommend two major shifts as Congress considers reauthorization

of the Higher Education Act:

1. Congress should redesign the accountability measures for teacher preparation providers, replacing the current focus on admission criteria and program completion to instead emphasize whether the candidates those programs prepare are effective once they are in the classroom, replacing current measures that focus on program admission and completion. The true measure of a program should be the performance of its graduates with real students in real schools.

2. Congress should embrace and support high-quality, non-university preparation providers—those with a track record of success and a commitment to diversifying the new teacher pool—by enabling participants in such programs to access Federal student aid. At present, some of the most successful teacher pipelines available to districts face a permanent, structural disadvantage relative to traditional university programs.

TNTP AND ITS TEACHING FELLOWS PROGRAMS

First, let me say a little about our organization and our history in teacher preparation. Since 2000, TNTP has operated teacher preparation programs in districts around the country. We began in New York City, where nearly a quarter of active math, science, and special education teachers started their careers through our Teaching Fellows program. We currently operate in 12 States, plus the District of Columbia, recruiting over 2,000 teachers to hard-to-staff schools annually. In brief, we train more teachers each year than all but the largest State university schools of education.

Admittedly, we are different than most institutions that train teachers:

• We are not an institute of higher education. Instead, we have worked to develop our own program, TNTP Academy, to provide the training and support new teachers need. Our program is strong enough that we have secured approval to certify our own teachers in most of the States where we work, without a relationship to a col-

• We do not focus on credits or seat time. Our teacher candidates teach full-time during the day while earning their certificate during nights and weekends; as such, we have to make the most out of the limited time we have with each candidate. To do so, we prioritize practical skills that will help them succeed immediately

• We do not have a collection of permanent faculty with terminal degrees. We hire effective classroom teachers from the communities we serve to share their knowledge and real-world teaching experience with our candidates; we believe that the people best suited to train and coach new teachers to become effective are those who have done it themselves and who have a track record of helping high-need students make significant learning gains.

• We work at scale to prepare the teachers districts need. All of our programs oper ate in partnership with districts and States to recruit and train teachers in hardto-staff grades and subjects. We seek candidates who are eager to take on these challenging assignments and prepare them specifically to work in high-need schools.

- We believe we are accountable for the results our teachers get in the classroomand track it. We do not train our teachers and send them out into schools, thinking our job is complete. Instead, we use a variety of evidence from their classrooms to assess the performance of our Fellows throughout their first year, ensuring that they are developing critical skills and getting results for their students they serve, and use multiple measures to assess their performance. If they are not developing into effective teachers, we do not grant them final certification.
- We evolve our programs rapidly based on what we see in the field. We are not content to train teachers who are middle of the pack. We use the data we collect on our teachers each year to make changes—some small, some large—to ensure that each cohort of teachers we recruit will be better prepared and capable of leading students in our partner districts to even greater success.

OUR APPROACH TO PREPARING TEACHERS

That last point—on evolving our programs—is how we learned that critical lesson about the importance of a teacher's first year. Our programs haven't always operated the way that they do now. Originally, our programs looked much like every other teacher preparation provider: we provided a broad, extensive pre-service training for our Fellows, and then assumed that while our graduates would struggle mightly at first, they would become effective with hard work and support from their peers and school leaders. As increasingly rigorous evaluations of teachers were completed, however, we found that our Fellows were generally matching—but not consistently outpacing—the performance of other new teachers (whether from traditional or alternative routes). That wasn't good enough for us. We knew that average performance was

not sufficient to train great teachers.

Using the latest research and our own experiences, we sought to rebuild our preservice training program from the ground up to ensure that teachers master the most essential instructional skills first. With that foundation in place, they are prepared to make a difference on day one and poised to rapidly develop advanced teaching skills during their first year. We call this approach Fast Start. It is grounded in three key principles: a clear curriculum focused only on the most essential skills; intensive practice of these skills, and; specific feedback on what teachers should do differently the very next lesson.

• Focus: Fast Start focuses on four critical skills most closely linked to first-year success: delivering lessons clearly, maintaining high academic standards, maintaining high behavioral standards and maximizing instructional time.

• Practice: Like athletes or musicians, teachers need to learn by doing—but most programs spend too much time on theories about teaching. In Fast Start, teachers spend 26 hours in intensive, hands-on practice activities beyond the time they spend actually teaching in real, summer school classrooms.

they spend actually teaching in real, summer school classrooms.

• Feedback: Every Fast Start participant benefits from 32 hours of one-on-one and group coaching to help them constantly fine-tune their use of essential instruc-

tional techniques.

Once in the classroom, we offer coaching and support that is tailored to the individual needs of each Fellow as they advance toward mastery-level skills. We also embed practice of those advanced skills into the content-oriented seminars Fellows must complete during their first year so that they can practice new teaching techniques at the same time as they bolster their pedagogical expertise in their particular teaching subject.

What we've learned so far is promising.

1. First, teachers can improve rapidly during even a 5-week pre-service training program if given enough opportunities to practice. In each of our four critical focus competency areas, participants were more than twice as likely to demonstrate proficiency by the end of training as they were at the outset of training.

2. Second, teachers who master these essential skills during pre-service training are more likely to be successful in their first full year in the classroom. Teachers who performed better during Fast Start were more likely to meet our standards for

first-year success at the end of the year.

3. Finally, preparation programs should view pre-service training like a training camp where not everyone will make the cut, because actual classroom performance is a powerful predictor of future success. In the summer of 2012, we only recommended around two-thirds of our Fast Start participants to begin teaching.

THE FIRST YEAR IS THE MOST IMPORTANT

Why do we place so much emphasis on teacher's performance in the first year? Because our experience, and the best research in the field, suggests that a teacher's first year is the most important year of their career. As we detailed last year in our report Leap Year,¹ not all new teachers struggle; they perform at different levels and improve at different rates. We also learned that teachers' initial performance predicts their future performance; teachers with higher observation scores at the beginning of the year were more likely to be strong performers at the end of the year as well. Most importantly, first-year teachers who are purposeful in their growth, responsive to feedback, and focused on student understanding develop the fastest, while those who struggle may even regress in their performance over the course of the first year.

Using Fast Start, we have become one of the first teacher preparation programs in the country to recommend teachers for certification based mainly on their performance in the classroom. Our evaluation model, the Assessment of Classroom Effectiveness (ACE), considers a wide variety of evidence—classroom observations, student surveys, principal ratings, and student achievement data (where available)—to create the fullest-possible picture of teacher performance. Our teachers receive ACE observations throughout the year and the model is designed to spur rapid growth by ensuring that teachers always know how they are doing and what they need to do to improve.

¹ "Leap Year: Assessing and Supporting First-Year Teachers," TNTP, 2013.

As with Fast Start, teachers must reach a rigorous performance standard before we will recommend them for certification. In 2012, only 82 percent of our Fellows received certification; the others were either extended with the opportunity to continue building skills, or denied certification and removed.

What's important, though, is that early success is remarkably predictive of success in future years. A study² released last year by researchers at the University of Virginia and Stanford found that for both math and English Language Arts teachers, those who performed well in their first year were likely to continue to have higher student outcomes than their peers for each of the next 4 years. Conversely, teachers whose results were in the lowest quintile in their first year were likely to remain there for the next 4 years as well.

As a result, we think that policymakers should encourage programs to help firstyear teachers focus on mastering essential skills first. Although most of this will need to be done by States, who are responsible for approving programs, the Federal Government can play an important role by encouraging States (through language in the Higher Education Act as well as via competitive grants) to adopt expectations for first-year teaching performance. Programs that are accountable for the eventual performance of their graduates will attend to it more carefully.

Policymakers at any level should not dictate how programs help their teacher candidates meet those high expectations. The best research currently available suggests there are typically few meaningful differences between preparation programs or routes to the classroom in terms of future student achievement—the biggest differences in effectiveness are found within programs rather than between them.3 Teaching is a complex profession, and there is no one-size-fits-all model for teacher preparation in which all potential teacher candidates will thrive. Candidates should have the freedom to choose programs they believe are best for their professional growth, so long as States hold all programs—traditional or alternative—to a common bar of quality.

A NEW VISION FOR TITLE II

If a State were to set such standards today, however, they would likely not be meaningful. In the absence of robust State data systems, the only common set of data collected across all teacher preparation programs comes via the reporting requirements in Title II of the Higher Education Act.⁴ These provisions require teacher preparation providers and States to report a wide range of data on an annual basis-mostly related to program admission or completion requirements and examination pass rates.

This data, however, does little to describe whether graduates of a preparation program are effective once in the classroom, or whether their provider had anything to do with their success. For example, title II reports do nothing to capture efforts by programs to ensure quality of their candidates. TNTP's Fellows programs and other alternative preparation pathways, such as rigorous residency programs, will proactively exit candidates who cannot demonstrate effectiveness. Title II reporting requirements do not capture this nuance.

Most importantly, though, the title II reporting requirements fail to focus the attention of both providers and teacher candidates on what matters most: effectiveness in the classroom. Congress should revise the title II reporting requirements to require States and providers to track and report the evaluation ratings of teachers during their first years of teaching after program completion. Where such systems use multiple measures of teacher effectiveness, the most granular level of data should be shared wherever possible. Where feasible, States should also share teacher retention data with programs, including the cause for separation where warranted so programs know whether separation was voluntary, layoff-related, or performance-related.

Such transparency, combined with rigorous implementation of a meaningful evaluation system, provides a rare win for nearly all parties:

· Teacher preparation providers will collect information that can more meaningfully inform how they prepare and support their candidates, encouraging improvement over time;

²Atteberry, A. Loeb, S., & Wyckoff, J. (2013). Do first impressions matter? Improvement in early career teacher effectiveness. *Calder Working Paper 90*. Washington, DC: National Center for the Analysis of Longitudinal Data in Education Research (CALDER).

³Gordon, R., Kane, T., & Staiger, D. (2006). Identifying effective teachers using performance on the job. Washington, DC: Brookings Institution.

⁴Higher Education Act of 1965 (HEA) § 205–208, 29 U.S.C. § 1022d-g (2008).

Teacher candidates who have options on where they obtain their preparation • District officials and school leaders can use the comparison data to identify

which program pipelines they should pursue for new teachers; and
• Congress and the States will benefit from improved information to guide further policymaking, and—as warranted—prioritize funding for programs with a successful track record of teacher preparation over providers who fail to consistently prepare candidates for success.

ENABLING PROGRAM CHOICE VIA TITLE IV

For teacher candidates to have meaningful choices in where they receive their preparation, however, providers need to be on an equal playing field. This is the other significant step Congress can take to enable strong teacher preparation providers to thrive—Congress should allow all programs with a track record of success

to participate in Federal student aid programs.

Presently, the Higher Education Act treats programs based at institutes of higher education and those operated outside of such institutions very differently. Though all programs that operate their own certification program must comply with the reporting requirements of title II, only accredited institutions of higher education may offer Federal student assistance under title IV. This places an unreasonable limitation on the choices available to teacher candidates with no clear justification. Non-university-based programs are often cost-effective for candidates who need to conuniversity-based programs are often cost-effective for candidates who need to continue to work while pursuing their teaching credential, especially if they want to begin teaching immediately. Allowing such programs to participate in title IV programs—including both grants under Part A and Federal loans under Parts B, D, E, and F—would enable candidates to choose the program that best suits their overall interests and not just their immediate financial limitations.

This limit on eligibility also counteracts the purpose of some of the stated goals of title IV's grant programs. For example, Congress specifically states that students.

This limit on eligibility also counteracts the purpose of some of the stated goals of title IV's grant programs. For example, Congress specifically states that students with demonstrated financial need who have already earned a bachelor's degree may use a Pell Grant for a teacher certification program that does not lead to a graduate degree but does meet a State's requirements for preparation that leads to certification.⁵ Similar provisions are in place around TEACH grants, which are available to any candidate with an undergraduate track record of academic success willing to commit to teaching for 4 years in a high-need school.⁶ In other words—programs like ours, and candidates like ours. However, because title IV places a blanket limitation on the use of title IV grant funds to institutes of higher education candidates. tation on the use of title IV grant funds to institutes of higher education, candidates cannot use grants from either of those programs to complete a non-university prepa-

ration program.

IN SUMMARY

We believe that we—and other innovative teacher preparation programs, traditional and alternative—are rapidly discovering new approaches to better prepare teachers for success early in their careers. As Congress considers reauthorization of the Higher Education Act, it should take this moment to reset expectations for all programs to account for these new discoveries: demanding data that focuses on the outcomes that really matter-student success-and enabling teacher candidates to access the same set of financing tools regardless of where they seek their preparation. We look forward to helping Congress in any way to make such changes, and I look forward to your questions today.

The CHAIRMAN. Very provocative. Thank you very much, Mr. Daly.

Dr. Burns.

STATEMENT OF JEANNE M. BURNS, Ph.D., ASSOCIATE COM-MISSIONER OF TEACHER AND LEADERSHIP INITIATIVES, LOUISIANA BOARD OF REGENTS, BATON ROUGE, LA

Ms. Burns. Chairman Harkin, Ranking Member Alexander, and members of the committee, thank you for the opportunity to testify this afternoon about teacher preparation in Louisiana and our ongoing commitment to place an effective new teacher in every class-

⁵HEA § 401(c)(4)(B), 20 U.S.C. 1070a(c)(4)(B) (2008). ⁶HEA § 412, 20 U.S.C. 1070g et seq. (2008)

room. My name is Jeanne Burns. I work for the Board of Regents, and I work with all of the universities within the State.

Louisiana is a State where committed stakeholders have come together and supported the work that Congress wanted States to do with the previous reauthorization of the Higher Education Act. We did it because of a commitment to improve the achievement of children in our State. We did not initially have the capacity to do what I am about to describe. But through stakeholder engagement, we developed that capacity.

Our efforts to improve teacher preparation began in 1999–2000, and we have sustained it and further expanded the work across three Governors, three commissioners of higher education, and three State superintendents. The work has been supported by our Board of Regents, our Board of Elementary and Secondary Education, and, in addition to that, we have had State leaders, university leaders, faculty in the colleges of arts and sciences and education, K through 12 partners, and we have had community partners who have supported this work.

The success we are experiencing today would not have occurred without this broad-based support. I cannot stress that enough.

Our work began by creating a Blue Ribbon Commission for Teacher Quality that was composed of 36 stakeholders. The commission identified 70 recommendations pertaining to improving teacher quality the first year, and then recommended 40 recommendations the second year to improve educational leadership. We used those recommendations in order to obtain the Title II Teacher Quality State Enhancement Grant to support Teacher Preparation Transformation 1.0. This was a wise investment of Federal funds.

The State also secured funds from the Carnegie Corporation of New York and the Wallace Foundation to support the reforms. Our State boards created and implemented more rigorous State policies for licensure and approval of teacher preparation programs. All undergraduate and graduate programs were redesigned—all, not some—and national experts were used to evaluate all programs.

All redesigned programs that met the more rigorous State expectations were approved by the two boards, and all pre-redesigned programs were terminated. That meant that those programs no longer existed by specific dates. Louisiana created and implemented a teacher preparation accountability system that used multiple measures to examine teacher preparation. We were one of the States that did identify at-risk and low performing programs.

In addition, Dr. George Noell from Louisiana State University created a value-added teacher preparation assessment model that linked growth of learning of children to new teachers to the teacher preparation programs, and we implemented it. Dr. Noell later adapted that model to develop a value-added model that is now being used for all teachers as part of our State teacher evaluation system. In 2011, higher ed adopted that model as our model as well.

Value-added results and other results for redesigned programs are now reported to the public, and our teacher preparation programs now have drill-down data to improve their programs. All of our universities are now NCATE and TEAC accredited, and we are pursuing CAEP accreditation. All of them are.

This has been a complicated and very time consuming process. I cannot stress that enough. However, we now have data to show that we are impacting student achievement within our schools and that our universities are addressing the needs that were identified in 1999-2000.

We have now moved on to Teacher Preparation Transformation 2.0. We now have an NTEP grant where we are now reexamining what we're doing for licensure as well as program approval. In addition, we have a grant from the Rockefeller Philanthropy Advisors where our universities are integrating new college and career-ready standards and assessments into the teacher prep curriculum.

The Higher Education Act has played an important role in holding States accountable. But many of the measures that we now must report on an annual basis are time consuming and they're meaningless. Therefore, I have just two very brief recommenda-

One, we do need to have attention given to the purpose of the reporting that's being done for the title II annual reporting. We need to be identifying indicators that truly measure the purpose that we are stating, and we need to look at aspects of teacher preparation that we consider to be important. We need to have indicators that are meaningful. The new CAEP indicators are an example of some of the indicators that could be used for future reporting.

We need to have funds that will not only support innovation on campuses, but we also need to have funds that will support innovation statewide. That's what helped our State to be able to do the systemic change that occurred within the State.

And then last, as far as accountability is concerned, you need to give States the flexibility to determine the best process in order to

examine accountability within the individual States.

Last, please, please encourage stakeholder involvement and engagement when title II funds go to States. That is what helps to sustain the reforms.

Thank you very much.

[The prepared statement of Ms. Burns follows:]

PREPARED STATEMENT OF JEANNE M. BURNS, Ph.D

SUMMARY

Louisiana is a State where committed stakeholders have come together and supported the work that Congress wanted States to do with the previous reauthorization of the Higher Education Act. Our work to improve teacher preparation in Louisiana began in 1999–2000 and has been sustained and further expanded across three Governors, three commissioners of Higher Education, three State superintendents, State boards, State agencies, university leaders, university faculty, private providers, PK-12 partners, parents, and business/community partners over a 14-year

The work began by using 70 recommendations developed by Louisiana's Blue Ribbon Commission for Teacher Quality to obtain a \$3.2 million Title II Teacher Quality State Enhancement Grant from the U.S. Department of Education to implement systemic reforms. This was a wise investment of Federal funds toward the improve-

ment of teacher preparation in Louisiana.

Through the use of these and matching funds, Louisiana embarked upon Teacher Preparation Transformation 1.0 that impacted public universities, private universities, and private providers who offered teacher preparation programs. During 2001–14, more rigorous State policies were adopted, all teacher preparation programs were redesigned, national experts evaluated the programs, pre-redesign programs were terminated, and only programs that met the high expectations were ap-

proved for implementation.

Accountability measures and growth in student learning measures were developed and used to examine the effectiveness of the redesigned teacher preparation programs. This has been complicated and very challenging work; however, data now exist to indicate that the systemic reforms were effective. Louisiana is now embarking upon Teacher Preparation 2.0 to address changing needs that exist in 2014.

The Higher Education Act has had an important role in moving States in the direction of collecting data for accountability purposes and reporting results to the public. However, many of the indicators that institutions and States must now submit for title II annual reporting are excessive and lack meaning. Five recommenda-

tions for the reauthorization have been identified.

- 1. Expand investment in teacher quality innovation at campus and State levels. 2. Clearly identify a purpose for title II reporting and align evidence with the purpose.
 - 3. Collect a concise but meaningful set of indicators for title II reporting.
 - Allow States to create their own accountability systems.
 Set clear expectations for active stakeholder engagement.

Chairman Harkin, Ranking Member Alexander, and members of the committee, thank you for the opportunity to testify this afternoon on teacher preparation and Louisiana's ongoing commitment to place an effective new teacher in every class-

My name is Jeanne Burns, and I am the associate commissioner for Teacher and Leadership Initiatives for the Louisiana Board of Regents. The Board of Regents is a State agency that is responsible for a wide range of planning and policymaking activities and coordinates the work of our four public university systems. As you will see in my testimony, our State leaders, university campuses, private providers, and many State partners truly understand that "Teacher Preparation Matters."

We are a State where committed stakeholders have come together and supported

We are a State where committed stakeholders have come together and supported the work that Congress wanted States to do with the previous reauthorization of the Higher Education Act. Our efforts to improve teacher preparation in Louisiana began in 1999–2000 and have been sustained and further expanded across three Governors (Governor Bobby Jindal, former governor Kathleen Blanco, and former governor Mike Foster), three commissioners of Higher Education (Commissioner Jim Purcell, former commissioner Sally Clausen, and former commissioner E. Joseph Savoie), and three State superintendents (State superintendent John White, former State superintendent Paul Pastorek, and former State superintendent Cecil Picard). It has been supported by members of our Board of Regents and Board of Elementary and Secondary Education. It has also been supported by our university chancellors/ presidents, vice chancellors, college of arts/sciences and education deans, colleges of arts/sciences and education faculty, PK-12 school partners, private providers, parents, business partners, and community partners. The success we are experiencing today would not have occurred without this broad-based support.

Our work began by creating a Blue Ribbon Commission for Teacher Quality that was composed of 36 stakeholders representing the partners I have already discussed. The Commission identified 70 recommendations during the first year it met in 1999–2000 to improve teacher quality and identified 40 additional recommenda-

tions in 2000–2001 to improve educational leaders.

The State used the Commission's recommendations to successfully obtain a \$3.2 million Title II Teacher Quality State Enhancement Grant from the U.S. Department of Education to implement systemic reforms from 2000–2005 that impacted all public and private university teacher preparation programs in Louisiana. This was a wise investment of Federal funds toward the improvement of teacher preparation in Louisiana.

Through the use of these and matching funds, Louisiana embarked upon Teacher Preparation Transformation 1.0 that impacted public universities, private universities, and private providers who offered teacher preparation programs. Our State boards created and implemented rigorous State policies for teacher licensure and higher expectations for teacher preparation approval. All public and private universities created redesign teams that included college of education faculty, college of arts/sciences/humanities faculty, and K-12 school/district partners to redesign all undergraduate and graduate teacher preparation programs. National experts were used to evaluate all redesigned programs to ensure that high State and national expectations were being met. During the evaluation, some university programs were not recommended for approval, and some universities voluntarily chose to no longer

offer programs in specific certification areas for they lacked the strength needed to be approved through the evaluation process. This self-evaluation eliminated very weak programs.

All redesigned programs that met the more rigorous State expectations were approved by the Board of Regents and Board of Elementary and Secondary Education for implementation, and all pre-redesign programs were terminated by specific dates. This process occurred during the time period of 2001–10.

During 2002-5, Louisiana created and implemented a Teacher Preparation Accountability System that used multiple measures to examine the effectiveness of teacher preparation programs and assigned five labels based upon performance. Labels of "at-risk" and "low performing" were assigned to three institutions and all three demonstrated improvements during the next 2 years for the labels to be removed. A need developed to revise the system after Hurricane Katrina, and ongoing discussions have occurred about changing the system as new data have become available.

Researchers from Louisiana were instrumental in helping the State develop and use data that linked growth of learning of children to new teachers to their teacher preparation programs. Dr. George Noell from Louisiana State University developed a Louisiana Value-added Teacher Preparation Assessment Model that was piloted from 2003–6 and fully implemented from 2006–11. Value-added results for redesigned programs were reported to the public, and teacher preparation programs were provided drill-down data that helped them to identify the specific grade spans, subject areas, and content strands where their programs were demonstrating strengths and relative weaknesses for program improvement. Redesigned programs strengths and relative weaknesses for program improvement. Redesigned programs that performed below the average performance of other teacher preparation programs were required to develop plans to improve within specific time periods or lose approval of their programs.

Dr. Noell's expertise was used by the Louisiana Department of Education to create a new value-added model that is now being used as part of a State teacher evaluation system for all teachers in Louisiana. In 2011, a decision was made by higher education to adopt the value-added model being used for all teachers instead of using the original value-added model developed for teacher preparation. That is the

I have shared what we have done to demonstrate that you do have States where universities and private providers have been actively engaged in improving the effectiveness of new teachers. There are other States and institutions that have worked equally as hard. This has been complicated and very challenging work; however, data now exist in our State to show that our systemic reforms have had a positive impact upon needs that were originally identified in 1999-2000. This is true for all of our institutions, including our historically black colleges and universities. As examples, all public and private universities in Louisiana are now nationally accredited, and all but one university have 100 percent passage rates on State licensure assessments. Public opinion has improved and principals have indicated that new teachers completing redesigned programs are better prepared than previous teachers. Data now exist to show that children taught by new teachers who completed redesigned programs have demonstrated greater growth in learning in more content areas and at more universities than growth in learning that occurred in preredesign programs in 2005–6. Based upon the State's new value-added model, more new teachers have obtained value-added scores in the "Effective Proficient" and 'Highly Effective" ranges than anticipated.

At the present time, our data indicate that we do not have universities or private providers where entire teacher preparation programs need to be shut down. Instead, we now know that we have specific grade spans and specific content areas where growth of student learning is not as great as other content areas and grade spans at each institution. Our campuses are now working to create programs where all grade spans and all content areas are equally strong.

Louisiana's work is not yet done. Teacher preparation programs in Louisiana are now identifying new needs that are different than the needs that existed in 1999-2000 and embarking upon Teacher Preparation Reform 2.0. These needs include the development of greater collaboration between universities and school districts to create higher quality clinical experiences and residency programs, provision of in-depth instruction to prepare new teachers to address college-and career-ready standards, creation of a coherent system that blends multiple systems currently being used to evaluate teacher preparation programs, and communication of accurate information about teacher preparation programs to the public. You can learn more about Teacher Preparation Transformation 1.0 and 2.0 by going to a Web site we have developed that provides access to the resources we have created or used (http://regents.la.gov/ onestopshop).

Louisiana has already started to implement new initiatives to address Teacher Preparation Transformation 2.0. Through a Core to College grant from the Rockefeller Philanthropy Advisors, universities are developing a deeper understanding of the Common Core State Standards and PARCC assessments and identifying changes that need to be made in teacher preparation programs to prepare new teachers who effectively address college- and career-ready standards. Louisiana is one of seven States that received a Network for Transforming Education Preparation (NTEP) grant from the Council for Chief State School Officers, and we are using the grant to identify future changes to State licensure for teachers, additional changes for the approval of teacher preparation programs, and relevant data to evaluate the effectiveness of teacher preparation programs. Once again, authentic stakeholder engagement is going to be critical for these reforms to continue to be sustained across multiple administrations.

An important lesson we have learned is that there is not one single way to improve teacher preparation programs. When our Commission first met to develop its initial recommendations, it heard from experts who were engaged in successful reforms in other States. The Commission used the lessons learned in other States to identify what would work best in our own State. States need to have the flexibility to create teacher preparation reforms that will be supported by their stakeholders. They then need to be held accountable for successfully implementing reforms that

have a positive impact upon the learning of children in their States.

The Higher Education Act has had an important role in moving States in the direction of collecting data about their programs for accountability purposes and reporting the results to the public. A clearer understanding now exists in our State regarding the types of traditional and alternate teacher preparation programs being offered across the State, the number of teacher candidates enrolled in the programs, and the areas in which they are pursuing certification. The public now has direct access to accurate information about the passage rates of candidates within individual teacher preparation programs on State licensure assessments. However, many of the other indicators that institutions and States must now submit for title II annual reporting are excessive and lack meaning due to different interpretations across institutions within States and across States. The process is extremely time consuming for individual campuses and time consuming for State agencies responsible for overseeing the collection of the data. Some of the data reported by institutions are included in the annual reports, but it is not clear what occurs with other data, for it is not made available to the general public.

The reauthorization of the Higher Education Act is an important opportunity for

Congress to make important changes that can have a positive impact upon all teacher preparation programs across all States.

Today I would like to share five recommendations.

Recommendation 1: Expand investment in teacher quality innovation at campus and State levels.

The Teacher Quality Partnership (TQP) grants which were authorized in the 2008 Higher Education and Opportunity Act have provided individual teacher preparation programs with the opportunity to implement innovative ideas to improve the quality of their programs. Federal funding needs to be increased to support this innovation. In addition, Federal funds need to be made available to higher education State agencies on a competitive basis for statewide innovation and reforms. This will help to stimulate and support systemic reforms across a larger number of teacher preparation programs in a State. By sharing Federal funds across institutions for the purpose of program improvement, competitiveness diminishes and collaboration increases as institutions share best practices to help improve all institutions in a State-not just their own.

Recommendation 2: Clearly identify a purpose for title II reporting and align evidence with the purpose.

A need exists to identify a clear purpose for the collection of data for title II reporting. A need also exists to identify aspects of teacher preparation programs that are considered to be important across States. Clear indicators and measures need to be identified that are aligned with the purpose and aspects of teacher preparation that are identified as being important. As an example, passage of teacher licensure assessments appear to be an aspect of teacher preparation programs that is considered to be important for the current title II annual reporting, and a process has been developed to collect licensure scores. If the purpose of the title II reporting is to compare States, this is not a good measure for different States have different cutoff scores for licensure. If the purpose of the title II reporting is to inform the public about different types of evidence across States, the measure would be appropriate for the purpose and address the aspect of teacher preparation that is considered to be important.

Recommendation 3: Collect a concise but meaningful set of indicators for title II reporting.

Identify a common set of concise but meaningful indicators to report information to the public about traditional and alternate teacher preparation programs that are offered by public/private universities, private providers, and districts. Examples could include: passage rates on licensure assessments, impact of new teachers upon growth in student learning, performance of new teachers on State teacher evaluations, and national accreditation. Examples of indicators identified by the Council for the Accreditation of Educator Preparation that Louisiana is now developing a process to collect include the following: completer or graduation rates, percentage of completers that meet State licensing requirements, percentage of completers that obtain a license to teach, percentage of completers that are hired in schools, percentage of completers that are hired in positions for which they are prepared, retention of new teachers once hired, results of completer surveys, and results of employer surveys. As indicators are identified for title II reporting, work needs to occur with organizations that report data (e.g., Council for the Accreditation of Educator Preparation, American Association of Colleges for Teacher Education, National Council on Teacher Quality, etc.) to establish common metrics that can be used across organizations and title II reporting.

Recommendation 4: Allow States to create their own accountability systems.

Set basic expectations, but allow individual States to create accountability systems that meet the needs of their States. As an example, instead of just requiring States to identify "At-Risk" and "Low-Performing " teacher preparation programs, establish the reporting of performance at four or more levels. Set expectations that States will provide support to low performing programs and have States identify the types of support that will be provided. Have States clearly define all of the indicators that will be used to examine performance within their accountability system and how the indicators are aligned with the purpose of their system and the aspects of teacher preparation that they consider to be important in their individual States.

Recommendation 5: Set clear expectation for active stakeholder engagement.

As title II funds are disseminated to States, clearly communicate the expectation that active stakeholder engagement must occur. Changes in policies, laws, and procedures should not occur in States without key stakeholders from the State, higher education, PK–12 education, and communities being involved in discussions that are open to the public. Stakeholder engagement is especially critical at the community level as universities, private providers, and PK–12 schools deepen their partnerships to provide meaningful clinical experiences to teacher candidates that are supported by effective experienced teachers. As States move toward comprehensive implementation of college- and career-ready standards, active sharing of information, resources, and expertise between PK–12 and higher education is more critical than ever before.

In conclusion, please know that Louisiana can be a resource to the committee as policies are developed to improve teacher preparation across our country. Thank you again for allowing me to speak before your committee today.

The CHAIRMAN. Thank you all very much for very concise summaries of your written statements. We'll start a series of 5-minute questions.

I want to ask kind of a specific element here. More and more children with disabilities are now being taught in inclusive class-rooms. That's good. We know that this benefits both disabled and nondisabled students in their growth. But my question is: Are general education teachers getting enough training to confidently teach a mixed abilities group? And should all teachers receive some training in disability education?

I'll just go on a little bit more. We know that children with disabilities and children of color are at a disproportionate risk of being suspended, physically restrained, involuntarily confined, or arrested in school. These practices traumatize students. They limit

their access to classroom instruction and make it more difficult for them to succeed.

Again, in teacher training and in teacher education, what's being done to address this? This is a very serious problem in our schools today. And yet, as I read all your testimonies yesterday in preparation for today, I don't see anything in there on that. There's a lot of general stuff in there. I got that. But teacher accreditation—are we asking any of these questions? I don't see it. Do you?

Dr. Koerner.

Ms. Koerner. Yes. We have made several of our programs actually dual certificate. So early childhood is early childhood special ed. Elementary is elementary special ed. So those students are dually certified to be able to teach in an included classroom or even in a mildly disabled classroom.

All of our students are in schools where they spend time in included classrooms, special pull-up programs. I really think a lot of it for us has to be in the clinical experience, because we are not only learning from the schools, but we are also contributing to making those schools better.

The CHAIRMAN. Mr. Daly, I know in your training program, you've fought educational inequality to a great degree. How have

you addressed this?

Mr. Daly. Special education is the single biggest subject area

that we prepare teachers to teach. But I think that—

The CHAIRMAN. I'm not saying special ed. I'm saying general teachers in classrooms that have kids who are disabled in the classroom.

Mr. DALY. The short answer is you are correct. So right now, it's largely overlooked, and in many cases, teachers find themselves encountering these sorts of issues and not feeling prepared. They make mistakes. They often misinterpret IEPs. I would say right now, much of the burden falls to the schools who do their best, I think, to fill those gaps. But your premise, I agree with.

The CHAIRMAN. Anybody else?

Dr. Brabeck.

Ms. Brabeck. Yes, I think it's a very important question, and it is addressed in the standards and the indicators that CAEP has designed. It is under the general category of programs being held responsible for graduating candidates who are classroom ready to teach all children. In New York University, which is the urban school district, we prepare teachers in special—all of our general education teachers at the elementary level also are certified in special education.

The real crux of the challenge in this is that special education is an area that could be taught in a number of ways. We are trying to get away from the diagnostic taxonomy orientation of labeling children using special education categories to an individualized instruction orientation where teachers learn how to modify instruction for each individual child. The CAEP elementary standards are currently being redesigned, and special education will be a very significant piece of that redesign.

The CHAIRMAN. I want to call on Dr. Burns, but, again, in all of your recommendations for different things that we should do in our

reporting, I don't see this as one specific reporting.

Yes, Dr. Burns.

Ms. Burns. Within Louisiana, when we went through the redesign, all of our universities had to ensure that regular teachers were being prepared to work with exceptional students. Now, as I mentioned to you, we now have the capacity to provide growth in learning information back to our teacher preparation programs, and we can actually provide our campuses with information for their elementary education teachers about how well they have prepared their candidates for growth in learning to occur in children after those teachers become teachers.

We can break it down by the content area, but we can also provide them information about how well they are doing in helping children who are exceptional children demonstrate growth in learning. In addition, they are given data about the brightest children

that their new teachers are preparing.

But this is very valuable information, because our campuses can then go back, and if they find that they're doing well with teachers who are working with bright students, but not children who have special needs, then they can go in and make changes to their programs.

The CHAIRMAN. Very good. Thank you all very much. My time is

Senator Alexander.

Senator ALEXANDER. Thanks, Mr. Chairman.

Thank you for your testimony. I'm going to express two biases and ask a question. The first is the bias that non-ideological inertia piles up rules and regulations here that become outdated, imprecise, and once the questions are answered and the information is sent here, there's nobody here to do anything with the information.

Each of you has said that in a more eloquent way than I just did. What I wanted to ask you to do—Mr. Daly suggested a great swap—one thing. Would you be good enough to write a letter after this and say if you were writing the reporting requirements for Title II of the Higher Education Act, exactly what would it say?

What I've found out around here is that a specific written proposal actually has a pretty good chance of getting adopted. So I'd like to ask you to do that afterwards since I only have 5 minutes for questions, and I have a lot of questions. Would you be willing to do that?

Mr. Crowe. Yes.

Ms. Brabeck. Yes.

Ms. Koerner. Certainly.

Mr. Daly. Yes.

Senator ALEXANDER. And I know all of us would—I would give it to Senator Harkin and others who may be interested.

Second, Dr. Brabeck, let me see if I have this right. A university, like the University of Tennessee, has a regional accreditation, and then its College of Education may get a specialized accreditation. And what you represent is the organization that's a combination of two large specialized accreditors. Is that correct?

Ms. Brabeck. Yes. The previous accreditors, TEAC and NCATE—

Senator Alexander. That's correct?

Ms. Brabeck. That is correct. They will not exist.

Senator Alexander. Good. That's what I wanted to know. If that's correct, how many teacher preparation programs do you now accredit?

Ms. Brabeck. Currently, under TEAC or CAEP, which still are operating—or CAEP is operating under their standards until 2016—there are about 900 programs.

Senator ALEXANDER. About 900. How many other teacher preparation programs are there that don't have special accreditation?

Ms. Brabeck. I don't know. Do you know how many-

Senator ALEXANDER. Any estimate of that? Mr. CROWE. About 1,200.

Ms. Koerner. I thought it was 1,400.

Senator Alexander. About 1,200. But if the University of Tennessee wanted to operate a College of Education under its general accreditation but not a specialized accreditation, it could, right?

Ms. Brabeck. I don't know what the law is in Tennessee. In New York, it would need to be accredited.

Senator Alexander. But according to Federal law, it could.

Ms. Brabeck. According to Federal law. That's correct.

Senator Alexander. But Tennessee could require that each of its teacher preparation programs have that kind of—of the 1,200 or so teacher preparation programs that are not accredited, should they have specialized accreditation, or is that too big to bite off right now while you're improving your—or acknowledged to be very aggressive standards for the 900 or so that you're already working with?

Ms. Brabeck. Yes. I think they should be accredited, and I think they should be accredited for two reasons. The public is owed the accountability that comes with accreditation, the transparency of knowing about programs that work and programs that don't work; and, second, because accreditation is the process of continuous improvement. When you gather the data and you have to look at it, sometimes it's not pleasant to look at. It helps you change your program and make it better, and that's the role that accreditation—the dual role that accreditation has

Senator Alexander. Would you have different kinds of accreditation for different kinds of teacher preparation programs?

Ms. Brabeck. I would have the CAEP standards for all teacher preparation programs.

Senator ALEXANDER. That would be the 1,200 and the 900.

Ms. Brabeck. That would be the 1,200 and the 900. I think that's worked in medicine quite well and in nursing and other professions. My school has 15 different accreditations because we have the allied health fields. So they're all accredited.

Senator ALEXANDER. Now, if you did that, would you change the Federal law to make—Mr. Daly said that his students at some of the teacher preparation programs were limited because they weren't eligible for Federal funding. Would you recommend we change the law to permit them to be eligible for Federal funding?

Ms. Brabeck. I'm not really competent to comment on the fund-

Senator ALEXANDER. Mr. Daly, what do you think about the idea of accrediting all teacher preparation programs? Is that too ambitious?

Mr. DALY. I think that the direction that they're moving in, accreditation would be worth much more than it is now. I would say, right now, it would be hard for me to see what's in it. We go through approval processes all the time, and the sorts of things—which would be, just to be clear, completely different than what

CAEP is moving toward.

But those processes have not been useful to us, and most of the time, the folks that we are asking for approval are typically the universities that are not so eager sometimes for us to show up. And we get asked mostly about things that are not related to the effectiveness of our teachers. So, as I said, they've generally been frustrating. If they got better, and if the accreditation process did provide the sorts of things that Dr. Brabeck is talking about, I think I'd have no problem with it.

Senator ALEXANDER. My time is up. But, No. 1, I hope you each will write what you would—this is a relatively small amount of money by Washington standards, \$40 million, and we ought to make sure that if we ask for something as a result of it, it ought

to be precise and effective.

And, second, I'd much prefer accreditors to be responsible for the excellence of these institutions, because the other choices are Federal bureaucracies or State bureaucracies, which aren't as good. So if you default, then you turn it over to people who—us, who don't know as much about it.

Thank you.

The CHAIRMAN. Thank you, Senator Alexander.

I have in order here Senator Warren, Senator Isakson, Senator Bennet, and Senator Murphy.

Senator Warren.

STATEMENT OF SENATOR WARREN

Senator Warren. Thank you, Mr. Chairman. You know, I was a new teacher many years ago, and so this is a topic that is near and dear to my heart, to special needs kids. So I want to start a round of questioning about funding and how we provide financial support for college students who are studying to be teachers.

The Federal Government offers a program to fund teachers, the TEACH Grant program, and I'm concerned whether this program is actually helping support students who want to be teachers, or if it's just loading other students with a lot of debt. The TEACH Grant program offers up to about \$4,000 a year to undergraduates in teacher preparation programs up to a maximum of \$16,000.

The program is called a grant, but it comes with a catch. Recipients have to teach in high-need schools for at least 4 years in order not to have to pay it back. President Obama's recent budget request notes that as many as 75 percent of those who receive this so-called grant actually end up paying it back as a loan. The Department of Education has suggested that part of the problem is that schools are offering TEACH Grants to undergraduates very early in their education, before they're certain about their commitment to teaching.

The President's Budget also points out that even for those students who are more likely to become teachers, the TEACH Grant program could still put prospective teachers at a financial dis-

advantage when colleges supplant their own institutional grants with TEACH Grants. Institutions have a limited amount of aid to spend on their own, and so they have an incentive to hand out TEACH Grants as a part of their aid programs, even if this turns out to be loans rather than actual grants. So I just wanted to start with a question about how this works.

Dr. Koerner, I know that your institution offers TEACH Grants, and I wanted to ask what steps your institution takes to ensure that TEACH Grants go only to those students who are likely to

enter the teaching profession.

Ms. Koerner. Thank you for asking that. Actually, we are one of the largest recipients of TEACH Grants. We have 982 TEACH Grants. I think part of what gets lost in preparation of teachers is that a place like ASU actually produces teachers who stay in the State. They're working class kids. This is their entre to middle class, and they really have a hard time paying for gas, clothes, and we do a lot of work with private philanthropists to raise money for those kids.

The TEACH Grants are essential for us to recruit the kids that we want to bring in to teacher education. ASU, because Arizona does not have a State scholarship—we have about \$200 million a year in aid that we have to give students, of course, that we get through tuition. So we're very careful about how we identify students and how we counsel students. And because all of our students now have to spend time typically in high-need schools, we are preparing them for a career. We're not just giving them money in order for them to get a degree.

Senator Warren. But let me just ask the question, whether you're keeping data and how you're counseling them. All I know are the national numbers, and that is three out of four students who are receiving these so-called grants are not receiving grants. They're receiving a loan to fund college education to go somewhere else.

I'm all for students having access to help to get through college and all for recruiting students into teaching. I'm just concerned about how it's working out with this particular form of grant or socalled grant.

Ms. Koerner. I think that part of the people on this panel are saying you can't—with Federal money, especially, we have to be responsible, obviously. We're a public university—and with State money as well. So we advise students from day one when they come into our program. But, remember, most of our students are coming from community colleges.

Senator WARREN. Right. Do you keep numbers?

Ms. Koerner. We do keep numbers, and I asked, actually, in anticipation of this, because we feel like in recruiting students, these TEACH Grants are so important. I asked yesterday if I could find out how many of our teachers who get TEACH Grants stay in teaching for 4 years, and I couldn't get that data by today.

Senator WARREN. Thank you. It seems to me that ought to be

data that all schools ought to have as we go forward.

Ms. Koerner. I think that that is data that we should have for retention in any case, because if we're real reformers, we're trying

to reform schools where, actually, our kids stay in those schools for at least 4 years, and they don't migrate out.

Senator WARREN. Right.

Ms. Koerner. So for us, it's a double whammy. I agree with you. Senator WARREN. I get it. I thank you, and I thank you for the work that you're trying to do. I see that my time has escaped. That's how I feel about it.

But I do want to say two quick things. The first one is I agree with Senator Alexander. I very much hope that you will write us about what you think are the right data to collect and, I want to say, in particular, data that schools of education can use to help them improve teacher preparation, the focus in that direction, about what kind of data we should be collecting.

Also, we'll send questions for the record on teacher residencies. We've had some great successes with the Boston teacher residency program. I was going to ask you about it, Dr. Crowe, but I will do this in questions for the record. Thank you, Mr. Chairman.

The CHAIRMAN. Thank you, Senator Warren.

Senator Isakson.

STATEMENT OF SENATOR ISAKSON

Senator Isakson. Thank you, Mr. Chairman.

Thanks to all of you for what you do for kids and what you do for education in America.

Mr. Daly, you have two recommendations in your report. One is the true measure of a program should be the performance of its graduates with real students in real schools. In your opinion, how much preparation really goes into preparing teachers for the real student of the real classroom in 2014?

Mr. Daly. It's tough for me to know what happens everywhere. I would say in our experience, we have evolved substantially over the last 15 years. We used to spend a great deal of time teaching theoretical concepts about child development and the history of education and all these things that we thought would give them a contextual framework for the classrooms that they were going into. We taught them about the concepts of classroom management or explaining things clearly.

But what we were not doing nearly enough of was teaching them to practice the foundational techniques that they would use 100 times a day. How do you get students in a line? How do you use economy of language to go through a concept so you don't lose students? I would say if our experience is indicative of what's going on out there, generally, then we all have had a long way to go to focus on preparing folks for the real job that they are doing.

Senator ISAKSON. The reason I asked that question is when I chaired the State Board of Education in Georgia, we had a challenge in getting enough teachers, first of all. Second, we had a challenge in teachers quitting by the time they were going into their third year of public teaching.

And my experience, more often than not, was that our colleges of education did an exemplary job of teaching the content and teaching the theory. But they did very little to teach the experience of the 21st century classroom, where three of the kids in the room are going to have ADHD, six of the kids aren't going to be able to speak English proficiently, and others have physical disabilities like the chairman was talking about. We don't do enough in our colleges of education to really teach kids to teach in that classroom.

Mr. Daly. You're exactly right. Senator ISAKSON. Yes, ma'am?

Ms. Burns. One of the major changes that we saw that occurred within our State was when we started providing our campuses with the growth in learning data of children being taught by the new teachers who started teaching in the schools in their first and second year of teaching. That very much changed the type of discussions that started to occur on our campuses, because our universities were being held accountable for how well teachers were performing as it related to achievement of children in their classrooms after they left the universities.

That really helped our universities turn and take a look at what standards students needed to be addressing when they went into the classrooms, what kinds of assessments children were being assessed on. They were looking at other types of areas that were very important for preparing new teachers as far as classroom manage-

ment and other types of areas like that.

But I can't stress enough that when you're holding teacher preparation programs accountable for the learning of children after their teachers have left the institution, that very much changes the types of discussions that occur on the campuses.

Senator ISAKSON. And I think that's why your recommendation, Mr. Daly, is so important, to really measure these programs based on the real performance of real students in real schools, which is

really the key to it.

The second thing I want to point out before my time runs out is that you made a second recommendation that Congress should embrace and support high-quality, non-university preparation providers, which is what you are. You're a not-for-profit, non-university provider. I think across the board, education is going to have to look at alternative methods of certification for teaching and instruction if we're ever going to have enough people to really deliver

the quality content that we want delivered in America.

We do Troops to Teachers programs now, with troops coming home and going straight into the classroom, teaching under the supervision of the Board of Education, things of that nature. So I really commend you for encouraging us to open our eyes and go to alternative certification as a way of looking at bringing the best person in for the real student in the real classroom, which in the

end is what we've got to do.

Mr. DALY. Thank you. Senator ISAKSON. Thank you. Thank you, Mr. Chairman.

The CHAIRMAN. Thank you, Senator Isakson.

Senator Bennet.

STATEMENT OF SENATOR BENNET

Senator BENNET. Thank you, Mr. Chairman, and thank you to the Ranking Member as well.

Thank you all for being here today. As everybody in this room knows, there's a lot that goes into having a successful school. But if I could think about one of the takeaways from my superintendence in Denver, it is that if you have a school where people have universal agreement that they're there to teach the kids, but also to perfect their craft as teachers, you have a fighting chance. If you don't have that, you don't.

I was in a school the other day called Gust Elementary, Mr. Chairman, in Denver, a high-poverty school, with tremendous growth in the student achievement there. And I went to a classroom and randomly selected—so this is not a dog and pony show. I'm the one who picks the kids in their classrooms while they're doing their lessons. I interrupt them and I ask kids how it's going, because that's a much more useful way of learning whether a teacher is being successful than watching a teacher.

teacher is being successful than watching a teacher.

And I was in a conversation with this young boy, and I said, "How do you like this school compared to your last one?" He said, "It's much better." And I said, "Why is it better?" He said, "In this school, we learn from our mistakes." And I said, "What about your last school?" He said, "Nobody ever even corrected my mistakes."

For that kid, he's lost whatever year that was, which is sort of the sense of urgency I have about how we can make sure that we can change our architecture of how we prepare teachers in real time, not some time. The teacher in that classroom was a master teacher who had a mentee that she was teaching, and she said the best professional development she had ever had in her life was being a mentor to somebody else in the classroom.

Then we went out and met a whole bunch of these teachers, because they're part of something called the Denver Teacher Residency Program. These are mostly career switchers from advertising and other kinds of things. In that group was a 5-year teacher who had come in with the first cohort. Five years ago, she was a new

teacher. This year, she's a mentor teacher.

And I think about what that acceleration looks like to changing the DNA of one American school district, and it's happening at an astonishing rate. We're going to have 41 campuses that are touched this year by this Denver Teacher Residency Program, which we're doing with the University of Denver.

Metro State University in Denver is creating a new approach to teaching education that's completely residency based, and we are going to start with undergrads. We've been doing it with graduate

students in DPS.

Here's my question to all of you. I took up half my time. I am too tired to deal with unwilling dance partners on this subject. What I want to know is what we can do with the Federal law to incentivize programs like the one that we're rolling out in Denver—and I gather you've got a residency program at ASU—while others are figuring out that this is going to be the future. What can we do in terms of how we think about our budgets, both K–12 and higher ed acts, and what can we think about with respect to our regulations, simply to give permission to those out in the world who are prepared today to innovate and scale?

Ms. KÖERNER. One thing I do want to say in terms of the residency program is being in a school all by itself is not enough. Jesse

Solomon and I actually did the Boston Teacher Residency, and the idea was to actually have supervised instruction so that you can't just——

Senator BENNET. I agree. I'd like to have an answer to the question that I asked. I totally agree with you.

Ms. Koerner. Oh, OK.

Senator Bennet. The question is what can we do to accelerate?

Ms. Koerner. For us it was the TQP grant.

Senator Bennet. I appreciate that, but that feels to me like a very small and modest thing. I completely support it. I'm all for it. But if you're really imagining a world where you are recruiting—look, a lot of people wonder whether we even have a national issue with respect to education. To me, the fact that we're going to have to replace almost 2 million teachers in the next decade is at least of national interest. It may not be done by us, but it's of national interest. What can we do to move the levers?

Tim, maybe you've got a thought on this.

Mr. DALY. One thing I would say quickly is that I think there's a temptation to focus on closing down the programs that are low performing.

Senator Bennet. This is my point.

Mr. DALY. Right. But I think you'll never win that fight, because in so many places, there's going to be a political battle that goes on forever. I think I would shift the focus from shutting them down to shifting the enrollment to the higher performing places, because most States have some program that's both low performing and huge, and that's a much—you're never going to shut it down.

Senator Bennet. Right.

Mr. DALY. But I think that at the Federal level, make it less expensive, provide subsidies to the places that are believed to be high-performing, because people will respond to the economics of it, and I think you might win the money battle.

Senator BENNET. In addition to expanding AmeriCorps, what else

would you do there?

Mr. DALY. That's a good question. I think funding slots—if States can make a case that they have outcomes-based measures, and they could bring that to you and say, "Here's a place that is producing high performers," if you could fund more slots at those—so instead of funding the institutions, funding places for candidates that have gained admission there.

Senator Bennet. I'm out of time, Mr. Chairman.

The CHAIRMAN. Go ahead.

Mr. Crowe. Two quick points. One is to continue ratcheting up the external pressure. It's the only way this field will change. But do it in a smarter, targeted focus way. And, second, support competitive models of program development and delivery—again, external pressure to help improve the—

Senator Bennet. In my theory, the competitive models are more likely to close the lousy places than an accreditation model that never quite gets to the closure.

Mr. CROWE. Why keep them open?

Ms. Burns. Can I just add one other thing? I really want to emphasize—provide States with the opportunity to be able to access the funds as well. We currently have multiple institutions in our

State that would like to move toward a residency model, and if the State could also have an opportunity to be innovative, then we could do some things that could have systemic changes occur across our State. And funds currently aren't available for that type of statewide innovation.

Senator Bennet. Thank you, Mr. Chairman. I apologize. The CHAIRMAN. Thank you, Senator Bennet. Senator Murphy.

STATEMENT OF SENATOR MURPHY

Senator Murphy. Thank you very much, Mr. Chairman.

Thank you all for all of the hard work and innovative thought you're putting into the subject. I wanted to sort of come back to the initial question Senator Harkin asked and Senator Isakson ex-

pounded on, and that is the reality of the new classroom.

For a lot of the underperforming schools in my State, the foundational issue is kids' behavior before you get to kids' learning. We've done a lot of work over the past several years on the issue of creating positive school cultures, and it seems to me that a lot of that work has sort of run through school systems and adminis-

Yet the reality is that the teachers are on the front lines of trying to create that positive school culture, trying to teach good behavior instead of just punishing bad behavior. And we have all sorts of programs that we help fund, like the Positive Behavioral

Incentives and Supports Initiative that are working.

The question I have is at the teacher training level, how much of this conversation is about how you try to reform the culture of a classroom so that when you have a lot of kids who show up not knowing how to behave get the supports they need rather than just the punishment that some teachers think they deserve. How much of that conversation is getting into the way in which we train teachers, and how much of it can you do in the classroom, and how much of it do you really have to wait until they're out—how much can you do in the teachers' classroom versus the kids' classroom?

Ms. Brabeck. I think it gets a lot of attention in teacher preparation programs. I think that the recent MET study that was done comparing—looking at five different observational measures of teachers performing in classrooms showed that the classroom management area was pretty good across the grades that were assessed, which were the elementary grades, four through eight.

I think we're doing a good job, because we know how to do classroom management. I think people need to know-they need the practice of doing it in difficult circumstances, but they also need to understand the psychological principles that undergird a good behavior management program. Together, then, when a program doesn't work, if you know the theory base and you know the psychology behind it, you can change and moderate the program so that it works better.

Ms. Koerner. And one of the things we weren't asked is leadership preparation. Our colleges also prepare principals. A good teacher cannot be a good teacher in a school that has a bad principal. It's very difficult. You can do it, but it's very difficult.

So even in response to Senator Bennet, what you were saying is that you have to create a school—a culture that's positive, and a lot of it has to do with the principal. That's why teachers leave. That's why teachers will stay. That's why kids with bad behavior may be accepted. We can't divorce our teacher prep programs from our leadership preparation programs, either.

Senator MURPHY. If you've got a teacher who knows how to do discipline and behavior management, but you've got a principal who's going to suspend and expel every kid who goofs off or shows

up late, the two don't work together very well.

Ms. KOERNER. Exactly, or the other way around.

Mr. DALY. Senator, I think this is a really important point. What we learned over time is that we should train teachers to do these things the way that we teach sports or music, which is we ask people to practice the activity over and over again and get feedback so they can do it without thinking in the moment. If you're a middle school teacher—and I was one—it is the job of middle school students to drive teachers crazy, and they can sense—

Ms. Koerner. And parents.

Mr. DALY [continuing]. Fear in a second. And the only way to do that effectively is to be able to do things like control your voice. We can all agree that having good voice control and not seeming accusatory is important. But knowing it and doing it are two different thing.

And I'll be honest with you. Not every one can control their voice and say, "Can you please sit up?" And not everyone can do things with a visual look instead of a shout. That's where we find out that

a lot of people are not meant for this.

The mistake that we made for a long time, and I think that we all need to correct, is explaining it to folks and having a discussion about it is not the same as when you play a piano piece over and over again, or you do a drill in basketball over and over again so you can do it without thinking. And if you cannot address misbehavior without escalating the conflict, you cannot teach.

Ms. Burns. Something that hasn't been mentioned here that is just as critically important as everything you've just heard is the clinical educators who are being the mentors for the new teachers, need to be teachers who are, himself or herself, demonstrating good management and has an excellent type of classroom environment in which those teachers are working during their student teaching or while they're being mentored, whether they're in an alternate certification program. Our aspiration is for every new teacher or aspiring teacher to have a mentor who is an excellent, effective teacher, but that doesn't always occur, and more has to be done in

Senator Murphy. Mr. Chairman, I'll share one quick anecdote. In Bridgeport, CT, we had epidemic levels of school-based arrests, and they made a very brave decision in that school district. They decided to take the police officers who were patrolling the halls of the high schools and middle schools out and put them on the streets. Now, they were there if there was some dangerous episode, and they could come into the school.

But what effectively happened is that because the police officers were there, the discipline had been out-source from classrooms to the officers, and, thus, a lot of kids were being hauled away to jail. When the school decided to reinvest in having teachers be at the center of behavior management rather than police officers, in the first year, school-based arrests plummeted by 50 percent, and there's no more violent episodes happening in school than there were the year before. It just underscores how good teachers who know how to manage behavior can save a generation of kids from that downward spiral that's happening in that school to prison pipeline.

Thank you, Mr. Chairman.

The Chairman. Quite frankly Senator Murphy, I don't think there ought to be any policemen in our schools anywhere. I just think it sends the wrong signal. Anyway, we'll discuss that later. That's not part of this.

Senator Alexander, we'll have another round. Go ahead.

Senator ALEXANDER. Don't you want to go ahead?

The CHAIRMAN. Go ahead. Go ahead.

Senator ALEXANDER. I want to followup on Senator Warren's comment and make sure I understood it. I think what she said was that as you're suggesting to us what the reporting questions ought to be, that they be designed to produce data that's most useful to the schools themselves and to the accrediting agencies. Is that what you said?

Senator Warren. I think that's fair. The central part, at least part of what we have to look at—there are other reasons we collect data. We need to think about what the reasons are and what data we need, but, in particular, whether or not we collect the data that are going to be helpful in doing a better job of training our teachers.

Senator ALEXANDER. Yes. The reason I respond to that—and we may or may not agree on this, but I think the entity that is most likely to do something with properly and efficiently collected data will be the programs themselves or the accreditors. I just don't think, based upon my experience as a Governor and as a U.S. Secretary of Education and as a Member of Congress, that we'll do that very well. That's my bias. That might not be everyone's bias, but that's my bias.

I also have a feeling that while \$40 million, which is the amount we spend on title II, isn't much in Washington terms, if we were to focus it or focus the questions we ask on a single thing or on two things, we might get a pretty big bang for our buck. That's my usual experience. If you narrow something down to something you really want to know, you might really get something very useful out of it.

I like the focus. I like Senator Warren's suggestion that the data be, let's say, especially useful to schools and to accreditors so they can do their job.

Thank you, Mr. Chairman.

The CHAIRMAN. Senator Warren.

Senator WARREN. The only thing I would add, at the risk of turning this into a love-fest, is that—which I'm sure we'll find a way to deal with——

[Laughter.]

Senator WARREN [continuing]. Is a second point around this, and that is, if we can just take the data point another step, I think that Senator Alexander makes a powerfully important point when he says data that get dumped in and nobody ever uses them are not only a waste of time for having collected them, but they really usually turn out to be lousy data, because you're never getting the pushback to get those data right.

And sometimes you have to refine—wait a minute, we asked it this way. It turns out it doesn't produce very useful data. So part of that point is what are the data we need, but how do we also make sure that they're fed into a system that uses them and then helps correct them and produce better data over time. This just

comes from my own work with data.

Dr. Crowe, you-

I'm sorry, Mr. Chairman. Is it all right if they say something?

The CHAIRMAN. Yes, that's fine.

Mr. Crowe. I was just going to respond to both of you. Senator, in addition to your inertia principle in terms of reporting, there's also a kind of compliance principle.

Senator WARREN. Yes.

Mr. Crowe. Secretary Duncan said a year or so ago that the reporting system has about 440 different data elements, and so collecting this stuff and sending it to the State and then here has just turned into a job as opposed to using it for analysis. Now, my list, which I will provide to the committee, has 8 instead of 440 that are targeted on things programs can do for themselves and with others to get better and to tell the public how good or not so good they are and how they're trying to improve.

Senator Alexander. We talk a lot about capacity in education. But part of this goes to the capacity of the Congress, the State agency, and the Federal agency to deal with data in an effective way. And we have a limited capacity to do that, which will be made

a lot better if it's focused in the way you suggest.

The CHAIRMAN. Senator Bennet.

Oh, I'm sorry. Go ahead, Dr. Brabeck. I was going to call on Senator Bennet. Dr. Brabeck, did you have something you wanted to say?

Ms. Brabeck. I wanted to quickly add that as part of the accreditation process—which emphasis is on accountability, but also on continual improvement—is the requirement that programs demonstrate how they are using data and what kind of a system they have developed to feed the data back to the programs so that the programs have to look at how well they're doing on behavior management or asking the right questions or any of the really critical areas that teachers need to master.

Senator Warren. That's an important point.

The CHAIRMAN. Senator Bennet, go ahead, just jump in. Senator Bennet. At the risk of making this all seem crazy, the thing I'm sitting here wondering is whether we're creating an impossible task when we're giving the wrong people the data. In other words, the idea that any teacher is prepared to be an effective teacher when she walks out of any school of higher education, I think, is crazy. This is a profession where—this is about lifelong

learning every single year if we're doing what we're supposed to be doing.

The notion that somehow we're going to design a system that's going to hold. I'm all for outputs instead of inputs and all that kind of stuff—but that's going to really make a meaningful difference. It would seem to me that where you want the information to end up is in the hands of school principals who are trying to make decisions about who to hire; in the hands of school districts who are trying to make the decisions about what universities they want to hire from; and in the hands, importantly, of future teachers who will be making a decision about whether this place or that place is going to prepare them well to do the work.

That's where the motive force comes from here, not from another commission, not from other reports. And I wonder whether I've got that totally wrong, or whether there's ways in which we can, again, create a line incentive so that consumers of this stuff are actually able to make rational decisions that drive the system inexorably to improve rather than for it just to sit here in the same conversation.

Ms. Koerner. I think that it really rests, if you're looking for measures, in partnerships. We don't prepare teachers by ourselves. I think what keeps being brought up is this ivory tower and courses that don't matter and all that, and those of us who think deeply about this and put it into practice don't think that way. We are in partnership with school districts.

Senator BENNET. Let's rest there for a minute. That's a very, very important point to me, because I've seen the same thing that you've seen. So we should be asking ourselves, both in terms of the ESEA reauthorization and the Higher Ed reauthorization—which, in my mind, shouldn't be two separate things, but there's nothing we can do about that. It is what it is—whether or not we are incentivizing those kinds of partnerships—

Ms. KOERNER. Right. Exactly.

Senator Bennet [continuing]. Around the country, or whether what we're doing is creating such silos, because of the accounting requirements around Federal funds, that instead of moving people together, we're actually driving them apart, which actually happens to be the case in a whole bunch of areas.

Ms. Koerner. Yes.

Ms. Burns. I'd like to add here that right now, our public and our districts and our schools do not know what data to trust. There are a lot of different reports out there. One report says that a program is being effective. Another report says that they're not being effective.

As we are talking about identifying data here, we need to make sure that the data is being collected in a valid and reliable manner, and that there's common interpretations as to what type of data should be submitted. Otherwise—and it needs to be used across different national organizations that are reporting to the public about the quality and effectiveness of teacher preparation programs.

I can't stress enough data, but it needs to be interpreted in a consistent manner when being reported, and it needs to be valid and it needs to be reliable so that the public can trust it.

Senator Bennet. Can I come back, Dr. Koerner, to something you mentioned earlier, because I think it was such an incredibly

important point. And that is the role of the principal and our almost complete lack of focus on the principal. I'm very happy to hear you guys are focused on it. I wanted to hear a little bit more about that.

When I left Denver, we had worked very hard with our principal core, and I think the one—I used to say our reforms were breathtaking in their lack of originality except for one thing, and I won't bore you with how we did it, but it made a huge difference. Today, the districts move to a very different place, where they're saying, "You know what? We don't want anybody to supervise more than seven people," which means that there are layers of teachers that have things to do, master teachers and other kinds of things, real opportunities, new opportunities.

I wonder if you could share with us a little bit of what you're

doing with that.

Ms. Koerner. Sure. First of all, in our teacher assessment of performance, we have mentor teachers. You're right. There's a whole lot of levels in between teacher—there have to be clearer options, and we have to incentivize teachers to take on more leadership. So we have mentor teachers who actually meet with—and that's the success of the TAP program—meet with other teachers and our teachers in order to have them become better.

I also think what we're working with and doing in our districts is creating a pipeline of leadership. So it isn't just a way to get a master's degree in order to get on a different level, whether you really ever want to become a teacher or not, kind of in response the same thing as the TEACH grant. It actually is about—when have you developed leadership, and when can I help you build the capacity to develop leadership so that you're on a path to become a principal? We're working with our district partners to figure out how to do that.

The CHAIRMAN. I'm going to jump in here on one thing, talking about all these data points. I just asked my staff to check on this. ASU is known for its intensive collaboration with local K through 12 districts and schools in your recruitment efforts and your prepa-

ration programs.

I mentioned in my opening statement that one of the things that we've been hearing about is a lack of communication in many places between institutions of higher education and K through 12 school districts that they serve and the problems that leads to. So I just asked my staff if one of the data points that they have to submit now is their collaboration with local K through 12 schools, and the answer is no. They don't even ask that question.

Ms. Brabeck. It is a part of the CAEP requirements.

The CHAIRMAN. Pardon?

Ms. Brabeck. It is part of the CAEP requirements.

The CHAIRMAN. Oh, it is?

Ms. Brabeck. Yes.

The CHAIRMAN. It's part of the CAEP, but not part of what we have in the Federal requirements.

Ms. Brabeck. Correct.

Ms. Koerner. But in order to run a successful program, you're absolutely right. Obviously, there has to be a way to communicate. So we have advisory councils, formal advisory councils with our partnership schools and with our grant schools. And it has to go both ways. Partnerships aren't just about us telling them what to

do. It has to be what they're telling us to do.

We involve also research that—what we haven't brought up is that from districts, we need to know what they need to know, and we're supposed to be good at that, so we'd better be providing what they need to know in order to become better at what they're doing as well. But just as an aside, we do have formal parts of our partnerships with advisory councils.

The CHAIRMAN. I just wanted to clear that up.

Do you have anything else, Senator Bennet, that you wanted to

bring out?

Senator Bennet. I just want to thank you for holding the hearing, Mr. Chairman. We don't talk about this enough in the Senate, and your leadership gives us the opportunity to be able to talk about what really is, on a daily basis, one of the most important

things that's facing our country.

People aren't really aware of how far we have to travel for—how obsolete the model is that we have of training teachers and bringing them into the workforce. We haven't changed it since we had a labor market that discriminated against women and said, "Here are your two choices. One is being a teacher and one is being a nurse."

A lot of the way we've designed accreditation, the way we've designed the budget, and all this other stuff imagines that that's still the world that we're living in. Thank goodness, it's not the world that we're living in. And the question for me is how we can give an assist to the places that have figured out that we can unshackle ourselves from that and do the kinds of things that ASU and others are doing that are leading the way.

We would accelerate the benefits for our children if we do that, and if we don't, we won't, because we'll be here a decade from now

having this same conversation.

The CHAIRMAN. What did you say? In the next 10 years, how many?

Senator Bennet. It's almost 2 million. I think 1.7 million teachers we have to replace.

The CHAIRMAN. That's K through 12 teachers.

Senator BENNET. K through 12 teachers.

Senator ALEXANDER. Mr. Chairman, maybe it's a function of length of perspective, let's call it, otherwise, age, but in the time I've been fooling around with the schools, I've seen some pretty big changes in this. We've gone from almost no alternative certification programs to 40 percent of new hires. Is that right, something like

that, up to 40 percent?

We've seen Teach for America go from nothing to something. We've seen teacher evaluation programs try to get started—lots of places, lots of school districts struggling with that, trying to figure out a way to do it. We've seen the States, almost every State, with new accountability standards that affect directly teaching. Most colleges of education over the last 30 years, most universities, the big ones, have dramatically changed the amount of content that teachers are required to learn before they get their teaching degree.

And I think potentially enormously important are the new standards—the merger of the specialized accrediting agencies and your new extremely aggressive standards. I imagine over the next few years, we're going to see some pushback from that, from teacher preparation programs.

So I don't disagree with Senator Bennet that we've got a huge national challenge that we're not prepared to deal with. But over 30 years, anyway, maybe not over 10 or 15, I think the changes are

significant. Maybe it's a word I would use.

The CHAIRMAN. Is there anything else that any of you wanted to add to this hearing at all?

[No verbal response.]

So please individually respond to Senator Alexander's query on what you would change.

Now, Mr. Daly, you don't want to change anything. You want to scratch the whole thing and start—get rid of it and start from scratch. What would your outline be?

This could be helpful to us to take a look at that and see what we can do with the limited funds we have. One of the questions I didn't ask—I was going to ask if you had ideas about how to leverage—how do we leverage some of that money?

There are a lot of small programs that the Federal Government has that have big impacts because we figured out how to leverage money by getting—we put in a dollar, and if they want the dollar, maybe somebody else has to add a couple of dollars or something like that in terms of programs, or they have to do certain things. So maybe we could leverage the money somewhat. I don't have any specific ideas on that. I just know that we've done it in other areas.

If you have any thoughts on leveraging, please submit that along with your outline of what would be the number of data points or

things that we should-

Senator ALEXANDER. But that should all go to the chairman, and

then he'll see that we all get it.

The CHAIRMAN. Yes. Just send it to the committee. Send it to our committee, and then we can disperse it. If you would do that, I'd

sure appreciate it.

This was very informative, a good, thoughtful session. We appreciate it very much, all of you, and I thank you for-many of you have been involved in this for many, many years, and we thank you for your leadership and guidance on this. We're going to try to put this higher education bill together sometime soon.

Thank you all very much. The hearing will be adjourned.

[Additional material follows.]

ADDITIONAL MATERIAL

PREPARED STATEMENT OF CHRIS STEPHENSON, EXECUTIVE DIRECTOR, COMPUTER SCIENCE TEACHERS ASSOCIATION (CSTA)

PREPARING TEACHERS FOR A CRITICAL DISCIPLINE

For decades, many groups and policymakers concerned about the state of the country's education system have been trying to solve what they perceive as its problems. The White House and Federal agencies have been concerned that young people are not learning what they should in elementary, middle, and high schools to be successful in college and careers. Congress is concerned that Federal education laws and investments are not yielding improved achievement and may be doing more harm than good. Think tanks are opining on what interventions might improve high school graduation rates. Philanthropy is considering how to foster persistence among certain populations on college and university campuses nationwide. And yet, the one discipline that offers those who pursue it limitless opportunities is marginalized across the educational spectrum. Computer Science is ubiquitous. It impacts teachers and students and principals and lawmakers—and yet, it is difficult to find in the K–12 educational system.

It has been said that we teach our young people what we value, but the importance of computing and Computer Science in our daily lives hasn't translated to a respectable presence in classrooms. Nor is it represented in the confused, disparate and sometimes absurd teacher certification processes that those who want to teach Computer Science find themselves navigating. Computer Science teacher certification across the Nation is typified by confounding processes and illogical procedures, bugs in the system that keep it from functioning as intended

dures—bugs in the system that keep it from functioning as intended.

Because Computer Science and the technologies it enables lies at the heart of our economy and our daily lives, we have an educational and moral obligation to provide all students with the knowledge they need for a world where computing is ubiquitous. If we are going to prepare our students to thrive in this new global information society, we must provide all students with the opportunity to develop a fundamental understanding of the principles of Computer Science.

The information technology and computing industry cannot find the talent it needs to fill lucrative positions across the country. In the year 2020, there will be 9.2 million jobs in the "STEM fields"—those that rely on science, technology, engineering and mathematics—and half of those jobs will be in computing and IT. That's 4.6 million jobs waiting for those who choose to acquire Computer Science knowledge and skills. These companies want more young people to discover Computer Science and study it, and the country's economic fortunes depend on it. To make that happen, it must be taught. To teach it, there must be a qualified, valued Computer Science teaching workforce. And these teachers need to be certified, just as their colleagues in science, English, history, math, and arts classrooms.

Research on computer science teacher certification in the 50 States and the District of Columbia reveals that the certification/licensure processes for Computer Science are deeply flawed. Prospective Computer Science teachers often meet difficulty in determining what the certification/licensure requirements are in their own States because no one seems to know. Add to that frustration, the confusion that persists around what Computer Science is and isn't and where it fits in K–12 academics, and it's astounding that professionals with such valued expertise persevere to become Computer Science teachers. They do, but not in sufficient numbers.

Federal, State and local K-12 education policy interactions create this untenable situation—intentionally or not. Since Computer Science isn't a "core academic subject" in Federal education policy, States discount it and this perceived lack of importance has impact at the district and even school level. State education policies reflect Federal priorities. And Computer Science isn't one of them. Because non-required courses are less likely to be offered in schools, administrators are less likely to hire teachers who are specifically prepared to teach them. Because schools and districts are less likely to hire these teachers, teacher education programs are less likely to provide programs to train them. States are also less likely to establish and maintain non-core subjects as a primary teachable discipline with rigorous preparation certification/licensure standards. In addition, of the 50 States and the District of Columbia, only 19 count Computer Science as a high school graduation requirement. As a result, students are less likely to take Computer Science courses. Taken together, these policy ramifications mean fewer opportunities for students to take the courses that will provide fundamental knowledge and skills and prepare them for future computing jobs.

A major research report by the Computer Science Teachers Association entitled Bugs in the System: Computer Science Teacher Certification in the U.S. (http://csta.acm.org/ComputerScienceTeacherCertification/sub/CSTA_BugsInTheSystem .pdf) reveals that it is difficult to draw broad conclusions about the certification of Computer Science teachers in the country beyond the fact that it is not working. Each State has its own process, its own definition of Computer Science, and its own ideas about where it fits in a young person's educational program (if at all). The report and what it reveals about these processes forms the basis for a number of policy recommendations:

• Establish a system of certification/licensure that ensures that all Computer Science teachers have appropriate knowledge of and are prepared to teach the discipline content.

• Establish a system of certification/licensure that accounts for teachers coming to the discipline from multiple pathways with appropriate requirements geared to

those pathways.

- Establish a system of certification/licensure that accounts for previous teaching experience ("grandfathering") for teachers with at least 2-years of experience teaching Computer Science courses that are aligned to grade level CSTA K-12 Computer Science Standards
- Provide a certification pathway that includes both content and pedagogical knowledge for those transitioning into teaching from industry.
- Require teacher preparation institutions and organizations (especially those purporting to support STEM education) to include programs to prepare Computer Science teachers.
- Establish a computer science Praxis exam that assesses teacher knowledge of computer science concepts and pedagogy.
- Provide comprehensive professional development for teachers to enable them to achieve or maintain a certification/license or endorsement in Computer Science.
- Incentivize school level administrators to offer rigorous Computer Science courses offered by qualified Computer Science teachers.

Computer Science is the primary driver for job growth throughout all STEM fields. More than 50 percent of projected jobs in STEM fields are in computing occupations; these occupations dominate "help wanted" advertisements and computer science is one of the most in-demand degrees for those leaving college. Computer Science also provides the knowledge and skills all students need to participate as equals in the new global information society. Despite this, our K-12 system continues to marginalize Computer Science education. Federal, State, and local policies governing teacher certification/licensure also result in barriers to, rather than support for, exemplary teaching and learning. It is imperative that these barriers be removed now so that students can be put on an educational path to high-demand, high-skill, high-pay computing jobs across all sectors of the economy. Our future depends upon it.

Thank you for your attention to these views. CSTA and its members are happy to help the Congress as it works to ensure that teachers are prepared to teach Computer Science and the subjects important to the 21st Century workforce.

APRIL 24, 2014.

U.S. Senate, Committee on Health, Education, Labor, and Pensions, 428 Senate Dirksen Office Building, Washington, DC 20510.

DEAR CHAIRMAN HARKIN AND RANKING MEMBER ALEXANDER: Thank you for the opportunity to testify at the March 25 hearing on "Teacher Preparation: Ensuring a Quality Teacher in Every Classroom" and for your request for recommendations

regarding the Title II HEA reporting requirements.

A good starting point to improve the impact of title II on teacher preparation program quality and accountability is to reduce the current reporting burden on States and programs. Too many of the reporting elements are not central to understanding the preparation, production, and performance of strong teachers. And too little attention in the current reporting rules is given to information about key program outputs and outcomes that affect the learning performance of K12 students

RECOMMENDATIONS FOR INSTITUTIONAL REPORTING

Now is a promising time to accelerate progress on teacher preparation program reform and accountability. States, national organizations, and programs themselves

are working to improve the preparation of teachers for our Nation's students, seeking ways to push weak programs to get better or get out of the business of teacher education, and finding stronger ways to measure program and teaching quality

Reporting requirements on teacher preparation should be organized around the eight pieces of information about program outcomes and program quality discussed below. All other title II reporting requirements should be eliminated.

1. The academic strength of candidates admitted to programs

Programs should report average GPA of admitted students as well as the percentage of admitted students below 3.0 GPA. Averages alone are not enough to understand whether all admitted candidates have the academic potential to become successful teachers. And since programs can calculate average GPAs for their candidates, they already have the data to report the proportion below a 3.0 GPA. On ACT and SAT, academic potential for candidates would be addressed by reporting averages for admitted students and the proportion above the national 50th percentile (on ACT, for instance, that means the proportion of ACT scores at 21 or above for admitted students).

2. Demographic characteristics of admitted candidates and of program graduates

Demographic data reported should be the ethnicity and gender of admitted students and of program completers. Both sets of information are useful to see whether programs are preparing new teachers who are representative demographically of the schools and districts they serve.

3. Proportion of candidates obtaining at least 50 percent of student teaching experience in high-need and high-functioning schools

Current reporting about clinical practice requests information about the number of clock hours in student teaching and the number of full-time equivalent faculty involved in supervising this student teaching. Neither tells us anything about preparation quality or whether student teaching is organized to help candidates become successful teachers in the kinds of the schools where they will be employed.

Since newly employed teachers are more likely than veterans to be employed in low SES and relatively low performing schools, a relevant indicator is where they spent time learning how to teach. Teachers will not be able to succeed in challenging schools unless they spend time learning how to teach in similar environments. ments. At the same time, recent research from the New York Pathways study group shows that these clinical site schools have to be functioning schools in the sense of being places where the academic trajectory is upward (even if not where it needs to be) and without constant staff turmoil and turnover.

4. Number and percent of program graduates prepared in high-need subject areas States have the primary responsibility for approving teacher preparation programs and for licensing their graduates. Programs ought to have some responsibility or producing graduates in subject areas that schools in their State actually need. This indicator of responsiveness to State needs would collect information from each program on the number of graduates prepared in each of the **State-designated high-need subject areas** (STEM, SPED, ELL, etc.).

Programs should also be asked to report what proportion of total graduates is in these high-need fields. Both pieces of information would give us a good window on program priorities and the extent to which those priorities are helping the students

and schools of their State.

5. Employment and persistence of program graduates in high-need subjects and

This information builds on the prior one by collecting data from programs about employment outcomes, linking these outcomes to critical State needs. For both highneed subjects and high-need schools, programs should report this information based

on how their own State designates high-need schools and subjects.

Persistence rates of program graduates provides an important measure of how well a program prepares its graduates for a career in teaching. High rates of turn-over persist despite the fact that many teacher preparation programs say they are preparing teachers for challenging schools in urban or rural settings. Preparation programs are not solely responsible for the problem or for its solution, but many programs don't know if their graduates are teaching, much less how long they stay in the profession. They also aren't sure whether graduates teach in the kinds of schools the program believes it is preparing them for.

Is it fair or reasonable to associate turnover with teacher preparation programs? Studies show that preparation matters when it comes to teacher effectiveness. It is particularly important where candidates obtain their clinical experience before graduation, and *how* the program's clinical component is organized and supported by faculty so that graduates develop the skills and abilities needed in schools. Since teacher preparation programs already interact with schools, shouldn't they contribute to turnover rate solutions? This can only happen through stronger incentives, including public reports through the State.

6. Impact of program graduates on student learning outcomes

This is the program outcome that matters most. Since high quality instruction is the main in-school driver for student achievement, it makes sense that measures of student learning ought to be part of preparation program reporting policies. Most States can already link student and teacher data in their K-12 system. The Council for the Accreditation of Educator Preparation (CAEP) has adopted this indicator as a measure of program quality for accreditation, but all programs should have to demonstrate how their graduates influence the academic achievement of the K12 students in their classrooms. Waiting to move until every testing and reporting problem is resolved to universal satisfaction is not responsible or realistic, especially given the pressing and unmet challenge of helping every child to succeed academically through the provision of highly effective teachers.

7. Classroom teaching performance by program graduates

Because a single measure—no matter how powerful the findings—is not enough to gauge all the relevant components of teaching quality or program effectiveness, classroom observation and assessment of on-the-job teaching add significant value as an indicator of preparation program quality. At the very least, program graduates should have acquired knowledge and experience with core teaching practices by the time they complete a program. And with many States now developing and adopting teacher evaluation systems that include reliable and valid approaches to classroom observation, a good start would be having programs report results of these assessments for their graduates. Since more teachers will be assessed through observation than the number in tested subjects or grades, this indicator would greatly expand the proportion of program graduates for whom a strong measure of performance is part of the required report card.

8. Survey findings from program graduates and their employers

A growing number of teacher education programs seek regular feedback from their graduates about the program and how well it prepared them to teach. Some programs solicit similar feedback from the employers of their graduates. These survey findings let programs know in specific detail how well the graduates believe they were prepared for their classroom teaching responsibilities. And they allow employers to tell the program how they feel about the graduates who were hired in their school or district. Some States are already using these feedback surveys; they provide useful information as long as the survey has a standard set of relevant questions that speak to State-based teaching and learning issues. Programs should be asked to report feedback survey results as well as survey response rates.

RECOMMENDATIONS FOR STATE REPORTING

Under the current State reporting requirements in the Title II HEA reporting and accountability system, few States make any effort to flag and report weak programs as low performing. The Title II HEA statute calls on States to "conduct an assessment to identify low-performing . . . teacher preparation programs in the State and to assist such programs through the provision of technical assistance. Each such State shall provide the Secretary with an annual list of low-performing teacher preparation programs and an identification of those programs at risk of being placed on such list . . ."

on such list . . ."

The title II statute goes on to specify that "Levels of performance shall be determined solely by the State and may include criteria based on information collected pursuant to" the title II reporting requirements. For the most recent reporting year, 39 States did not classify even one teacher preparation program as low performing or at risk of low performance. In fact, 35 States have never found a program to be low performing or at risk, despite the K-12 student performance issues that we know from NAEP and other sources.

That 35 States have never found a program in need of improvement also suggests that these States are not doing enough to help programs and their graduates to be as effective as possible in meeting important State education needs. This can change by taking these steps:

 State criteria used to designate programs as low performing/at risk (LP/AR) should be the same for every State

Engineering, accountancy, nursing, and medicine are among the professions that have uniform State accountability standards for programs and graduates. In each case, the profession worked closely with States to develop a single set of policies that apply everywhere and were adopted by each State under its own authority. These fields—including nursing with over 1,200 program providers—also use the

same licensing tests and passing scores for graduates in every State.

There are good reasons for thinking that this voluntary approach by these professions and the States can make a difference for teacher preparation program quality. A significant number of newly licensed teachers in the United States complete a preparation program in one State and obtain their initial license in another jurisdiction. Nationwide, 19 percent of all initial State credentials are issued to teachers prepared in another State. For 10 States, over 40 percent of new teachers in each of these States are trained elsewhere and 22 States have reported that at least 20 percent of new teachers were prepared outside their State.

 State criteria for low performing/at risk programs should include measures from the institutional reporting system

The State criteria for low performing and at risk programs should include: (a) impact on student learning by program graduates; (b) results of high-quality classroom teaching assessments for program graduates; (c) persistence in teaching, especially in high-need subjects and schools; and (d) survey feedback from employers and program graduates.

The importance and relevance of these measures has been discussed above in the section of this letter on institutional reporting. By using measures of program quality incorporated in the institutional reporting system, reporting burdens on programs and States would be greatly reduced and it would be possible for all States to use the same set of items.

3. Licensure test passing rates as indicators of program performance

The revised Title II HEA statute should close the door completely to current abuse of the "program completer" definition by programs and States so that artificially inflated passing rates are no longer used to mislead the public about program quality: 96 percent of all teacher candidates in the country passed all of their teacher licensing tests in the most recent year for which test results are available even though two-thirds of their students are not proficient in reading or mathematics. If this step is taken so that licensure test scores are reported for *all* students in a given program, pass rates below 80 percent should be used in the low performing/at-risk State reporting criteria to flag a program as at-risk or low performing.

4. States should share program report cards with school districts

Nearly everyone who has talked to schools or districts about their sources of new teachers has heard anecdotes from district human resources (HR) officials or from school principals about the graduates of this or that program. Some report they are so happy with the quality of graduates from a particular place that they can't get enough of them and would hire every graduate if they could. Others are less positive, telling the listener they would never hire a graduate from such-and-such program. Whatever we might read into these stories, they are not systematic feedback about program or individual teacher quality.

States owe better information to district and school officials who hire new teachers. The State should help school superintendents and district hiring authorities to make the best decisions about new hires by sharing with every superintendent and district HR office the State report cards on every preparation program in the State.

In conclusion, I appreciate your invitation to appear before the committee on March 25 and your request for my recommendations about the Title II HEA reporting requirements. These recommendations to the committee are based on the belief that we should no longer focus reporting on preparation program inputs or get bogged down in the nuances of complex program processes. Preparation program reporting in the United States should use indicators that students are learning from their teachers, that teachers are effective in the classroom as determined by objective measures, and that program graduates stay in the profession and teach in schools that need them badly.

Sincerely,

EDWARD CROWE, Senior Advisor, Woodrow Wilson National Fellowship Foundation.

RESPONSE BY EDWARD CROWE TO QUESTIONS OF SENATOR MURRAY, SENATOR BENNET AND SENATOR WARREN

SENATOR MURRAY

The 21st century job market requires a skilled and educated workforce, investments in STEM education are essential to prepare our students for success in higher education and a diverse global economy. As you know our Nation faces significant challenges in the STEM area.

Question 1. What sorts of promising initiatives are underway with early education and elementary teacher preparation to equip those new teachers to inspire and engage students at a young age in the STEM areas?

Answer 1. STEM knowledge and teaching skills are particularly weak for many teachers of young children. This results from program recruitment practices where many teacher preparation programs simply have weak standards for admitting candidates to teaching; State requirements for preparation programs abet these weak standards by, for instance, setting the minimum grade point average (GPA) at 2.5 for admitted candidates. A recent student of college and university transcripts found that 73 percent of all grades given by public colleges and universities in the United States were As and Bs (university-wide, not colleges of education), which translates to an effective average GPA of 3.2. Thus, holding teacher candidates to a low "standard" like 2.5 ensures that many of them do not have the academic potential to learn and teach STEM subjects to high levels. This problem is compounded by the low number (and rigor) of math and science courses that early childhood and elementary

education candidates are expected to complete after being admitted.

Numerous studies find that, as a result of the relatively poor quality of U.S. teacher candidates and the weak program requirements in content subject areas, many teachers are unable to understand and present sophisticated math and science topics (e.g., "doing" science as opposed to talking about it) to their young Science topics (e.g., uoing science as opposed to taking about 167 to their young K12 pupils. For the early childhood years, too few teachers are able to provide appropriate levels of emotional and instructional support for their students, as described in Robert Pianta's 2007 essay entitled "Preschool is School, Sometimes" (Education Next, winter 2007, volume 7, no. 1).

Partly as a consequence, teachers turn to delivering STEM instruction through textbooks and reading-based instruction instead of hands-on learning. And when we consider that two-thirds of all fourth graders in the United States as well as 64 percent of 8th graders, and 63 percent of 12th graders are not proficient in reading according to NAEP, our teacher preparation programs and policies create huge barriers to STEM learning by younger students

SENATOR BENNET

Question 1. What indicators and metrics should the Federal Government be asking teacher preparation programs and States to report?

The Federal Government should limit reporting by teacher preparation programs and States to a small set of key indicators that shed light on program quality. As I describe in greater detail in my letter to the committee dated April 24, 2014, these indicators are:

- a. The academic strength of candidates admitted to teacher preparation programs, and in particular their grade point averages (GPA) and ACT or SAT scores.

 b. Demographic characteristics of admitted students as well as the demographic
- characteristics of program graduates, specifically ethnicity and gender.
- c. The percentage of program teacher candidates who obtain at least 50 percent of their student teaching experience in high-need and high functioning schools.
- d. Programs should report the number and percentage of graduates who are prepared in high-need subject areas, with high-need subjects defined by the State where the program is located and approved.
- e. Employment rates of program graduates in high-need subjects and schools as well as persistence rates in teaching for program graduates in high-need subjects and schools; definitions of high-need subject areas and schools should be those of the State where the program is located and approved to offer teacher preparation

f. Impact of program graduates on student achievement of the K12 pupils taught

by the graduates.

g. Reliable and valid measures of the classroom teaching performance of program graduates, through a variety of measures that can include the teacher evaluation results from districts that employ the graduates and/or findings from nationally validated classroom observation instruments.

Question 2. 2. What should the Federal Government do to help improve the quality of programs? If the Federal Government can only accomplish one thing on teacher preparation in the Higher Education Act re-authorization, what would that be?

Answer 2. If the Federal Government can only accomplish one thing related to teacher preparation through reauthorization of the Higher Education Act, the goal should be to raise significantly the accountability pressure on all teacher education programs to the point where they must improve or be closed down by the States. Many hundreds of programs are far weaker than they should be; our K12 students are in a sense victims of these weak programs and their inability or unwillingness to change. And since most States have demonstrated a similar inability or lack of will to force significant improvement on their preparation programs, or to close them down, Federal action should step up the requirements on States to have meaningful and rigorous standards for program performance. My letter to the committee of April 24, 2014, describes the steps that can be taken.

Question 3. What does an intense clinical experience look like for principals-intraining and what programs are doing this well?

Answer 3. Few current principal preparation programs are organized around the concept that all successful principals are instructional leaders. Too much attention is given to the administrative burden of school leadership (which is not to say that these jobs do not have legitimate administrative functions), with almost no attention devoted to modeling, coaching and supporting principals-in-training to acquire and use the skills of building-level instructional leaders. One existing program that seeks to do this is the Rice University Education Entrepreneurship Program (REEP) that began several years ago. A comprehensive evaluation of this program has not yet been completed but the program design does address key aspects of principal leadership development largely overlooked by traditional programs. More recently, the Woodrow Wilson National Fellowship Foundation has begun working with the University of Indianapolis and the Milwaukee School of Engineering to implement educator leadership programs aimed at addressing school improvement goals through intensive clinical experiences and mentorships.

SENATOR WARREN

The thing that makes teacher preparation so important is the very same thing that makes it so challenging: it is a high-stakes endeavor. When teachers enter the classroom, they need to be fully prepared, because students rely on them—and students don't have a year or two to wait while their teachers get up to speed.

Teacher residency programs that emphasize clinical experience as well as classroom learning are one promising way to help new teachers get experience before taking on sole responsibility for a classroom. The Boston Teacher Residency is a program that gives aspiring teachers an opportunity to engage in a year-long classroom apprenticeship combined with college coursework. Early analyses, including one of the Boston Teacher Residency, suggest that teacher-residents have better retention rates and greater effectiveness in the classroom than their peers in the long term.

Question 1. Please discuss the obstacles to creating more teacher residencies or other programs that place a greater emphasis on clinical preparation and what can the Federal Government do to help schools of education overcome these barriers.

Answer 1. Teacher residency programs do hold great promise as a strategy for preparing effective teachers for our classrooms. As with nearly all forms of learning, repeated practice and guidance from experienced mentors is key to acquiring mastery of teaching skills. The best designed residency programs offer extended student teaching experiences—up to a year; follow a carefully designed curriculum that emphasizes skills and practice over theory; pay careful attention to selection, training, and support of classroom mentors; use frequent observation and feedback to guide teacher candidate development; and often make innovative use of video to give candidates many opportunities to watch other teachers (and themselves) cope with real world classroom situation. The Boston Teacher Residency program has many of these features as do the RELAY program in New York City and the Match teacher residency program in Massachusetts.

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All of these components of teacher residencies contribute to their success (although rigorous evaluations are underway for some residency programs, to this point they have not reported results), but each also poses a barrier to full implementation of the model. Federal support for residencies can help to overcome the barriers by funding multi-site residency "trials" that are coupled to a single rigorous evaluation design to determine what works and why. A weakness of the current Teacher Quality Grants program is its scattershot approach to funding very different approaches to preparation program improvement as well as the lack of a single set of outcome metrics and a single evaluation strategy for all grantees. We

would make headway understanding how to make residencies work—and how to dismantle barriers to their effectiveness—by supporting a focused approach to the residency concept.

RESPONSE BY MARI KOERNER, PH.D. TO QUESTIONS OF SENATOR HARKIN, SENATOR BENNET AND SENATOR WARREN

SENATOR HARKIN

Question. What indicators and metrics should the Federal Government be asking teacher preparation programs and States to report?

Answer. With the high number of teacher preparation programs across the country, title II offers the potential to serve as an impetus for and, even, guide to improving program quality and accountability. One consistent recording mechanism would relieve the current barrage of reporting required by States and programs while at the same time offer comparative measuring of important variables effecting preparation and performance of classroom teachers. By focusing on data points which provide accurate information about well-prepared new teachers to policy-makers and citizens, the title II report would serve as the analytical tool which offers the information for reform needed in teacher preparation programs today.

Impacting the quality of teacher preparation programs can be better monitored through title II reporting by including the following metrics:

- The number and percent of graduates who are employed as teachers in highneed schools and subject areas, and the number and percent of these teachers who persist in teaching for 1–5 years after program completion. This should include:
 - The number and percent of graduates prepared as teachers in high-need subject areas as defined by the State where the program is located.
 - Percentage of students employed by the same school districts of student teaching placement.
- Demographic characteristics of those who are admitted to the program, and similar data for those who complete the program to gauge the extent to which program enrollments and graduates reflect the diversity of the schools they serve.
- The proportion of teacher candidates in the program who obtain at least 50 percent of supervised student teaching experience in schools that are high need.
- A teacher effectiveness measure that captures the extent to which program graduates help their preK-12 students to learn. This would also include exit performance results of students as a graduation requirement from teacher preparation programs.
- Classroom teaching performance for program graduates that is measured by reliable and valid assessments of teaching skills, student engagement and student learning.
- Survey results from preparation program graduates and from their employers about how well the program prepares its graduates to teach; the report should include survey response rates.
 - The ratio of full-time teacher preparation instructors to students.

As Dr. Edward Crowe eloquently stated in his testimony before the U.S. Senate Committee on Health, Education, Labor, and Pensions (March 25, 2014),

"Now is a promising time to accelerate progress on teacher preparation program reform and accountability. States, national organizations, and programs themselves are working to improve the preparation of teachers for our Nation's students, seeking ways to push weak programs to get better or get out of the business of teacher education, and finding stronger ways to measure program and teaching quality. Reports on K–12 learning outcomes show that we must do much more to ensure a quality teacher in every classroom. Title II of the HEA can be an effective vehicle for this goal."

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Question 2. What should the Federal Government do to help improve the quality of programs? If the Federal Government can only accomplish one thing on teacher preparation in the Higher Education Act re-authorization, what would that be?

Answer 2. Apart from not looking carefully at the performance of teacher education programs whose graduates are allowed to obtain licenses and teach in the State, and in light of the data presented above on student learning outcomes, the fact that 35 States have never found a program in need of improvement also suggests that they are not doing enough to help programs and their graduates to be as effective as possible in meeting important State education needs. There currently exists no incentive to improve or collect reliable and relevant data which shows improvement of programs or quality of graduates.

If programs that prepare our Nation's teachers are not held accountable in meaningful ways for the inability of their graduates to teach preK-12 students to teach mathematics and reading, it is hard to see how the country can help these students to become productive and successful members of our society. Self-regulation does not seem to be working. Nor does individual State accreditation or even national accreditation when everyone makes the bar.

Provide funding to State education agencies, local school districts, and universities to create integrated data systems for tracking graduates of teacher preparation programs. The criteria for funding should include long-term data agreements (i.e., a minimum of 5 years), access to student achievement data of the graduates being followed, and agreement on a common system for evaluating teacher performance. The funding should be non-competitive given all required criteria are met. And then, act on it. Show exemplars and discredit inferior programs.

Question 3. What does an intense clinical experience look like for principals-intraining and what programs are doing this well?

Answer 3. The research literature on principal preparation identifies four components that pertain to clinical training experiences and that are foundational for strong principal preparation programs:

- Direct alignment with leadership standards that define the skills, knowledge and dispositions of successful school leaders (the Educational Leadership Policy Standards: ISLLC 2008 are identified in a number of research articles as an exemplar of this type of leadership standards);
- · Coursework that is highly relevant and that requires aspiring principals to apply theory to practice through the analysis of problem-based learning cases and applied tasks that are linked directly to authentic school-level leadership challenges;

• The grouping of aspiring principals in "cohorts" in order to foster the development of teamwork, collegiality and collaborative learning; and

- Robust, year-long principal internships (residencies). Two research reports provide the following summaries of characteristics of intensive high-quality internships identified in the research literature:
 - The Principal Internship: How Can We Get It Right? The Southern Regional Education Board, available at http://www.wallacefoundation.org/knowledge-center/school-leadership/principal-training/Pages/Principal-Internship-Get-it-Right.aspx)
 - · Collaboration between the university and school districts that anchors internship activities in the real-world problems principals face, provides for appropriate structure and support of learning experiences, and ensures quality guidance and supervision.
 - An explicit set of school-based assignments designed to provide opportunities for the application of knowledge, skills and ways of thinking that are required to effectively perform the core responsibilities of a school leader, as identified in State standards and research.
 - A developmental continuum of practice that progresses from observing to participating in and then leading school-based activities related to the core responsibilities of school leaders, with analysis, synthesis and evaluation of real-life problems at each level.
 - Field placements that provide opportunities to work with diverse students, teachers, parents and communities.
 - Handbooks or other guiding materials that clearly define the expectations, processes and schedule of the internship to participants, faculty supervisors, directing principals and district personnel.
 - Ongoing supervision by program faculty who have the expertise and time to provide frequent feedback that lets interns know how they need to im-
 - Directing principals (coaches) who model the desired leadership behaviors and who know how to guide interns through required activities that bring their performance to established standards.
 - Rigorous evaluations of interns' performance of core school leader responsibilities, based on clearly defined performance standards and exit criteria and consistent procedures.
 - Preparing school leaders for a changing world: Lessons from Exemplary leadership development programs (Stanford University, available at http://www.wallacefoundation.org/knowledge-center/school-leadership/key-research/Pages/Preparing-School-Leaders.aspx).
 - · Research-based content that is aligned with professional standards and focused on instruction, organizational development, and change manage-
 - Curricular coherence that links goals, learning activities, and assessments around a set of shared values, beliefs, and knowledge about effective organizational practice;
 - Field-based internships that enable candidates to apply leadership knowledge and skills under the guidance of an expert practitioner;
 - Problem-based learning strategies, such as case methods, action research, and projects, that link theory and practice and support reflection; Cohort structures that enable collaboration, teamwork, and mutual sup-

 - Mentoring or coaching that supports modeling, questioning, observations practice, and feedback;
 - Collaboration between universities and school districts to create coherence between training and practice as well as pipelines for recruitment, preparation, hiring, and induction.

Programs that are doing this well include the iLeadAZ pathway in the Mary Lou Fulton Teachers College's Masters in Educational Leadership program; the University of San Diego's Educational Leadership Development Academy; the University of Connecticut's Administrator Preparation Program; and the Principals Institute at Bank Street College.

The document cited above (Preparing school leaders for a changing world) describes the USD, University of Connecticut, and Bank Street College programs,

among others. A brief summary of ASU's iLeadAZ program follows:

iLeadAZ is a 15-month principal development program in which Arizona school districts partner with the Mary Lou Fulton Teachers College in developing principal pipelines within their districts. There are four distinct phases of this intense clinical experience:

- A 5-week summer intensive that engages participants in an authentic problem-based, action-learning curriculum that simulates the actual challenges of an Arizona principalship. The simulations are a critical component of the learning experience and provide practical and realistic scenarios for the application of theory, research and best practices.
- A 10-month, school-based residency under the mentorship of an experienced principal and the support of a leadership coach. Participants are immersed in a full-time full-year residency experience in their school district. By employing embedded learning opportunities and cohort-style teamwork, this experience enables participants to build a community of practice for continual individual and team growth for school improvement and the requisite skills to lead educational innovation, and develop a discipline of inquiry-driven leadership anchored in student learning. Residencies expose iLeadAZ candidates to all aspects of leading a school—from organizing instructional improvement efforts, to managing school operational issues, to navigating organizational politics. In the second semester, residents take over the reins of the building with the principal taking a few steps back to allow them to fully experience the principalship.

• Nine weekend conferences throughout the school year that extend the summer intensive experience. Friday's are spent at local schools and Saturdays at the ASU campus. These sessions are designed to build on the summer learning, reinforce core outcomes, and continue to seamlessly bridge theory, research, and the iLeadAZ can-

didates' experience in their residency.

• Completion of coursework to earn a Masters in Educational Leadership. All coursework is directly aligned with the Educational Leadership Policy Standards: ISLLC 2008. Throughout the year, participants meet weekly via on-line video conferencing with the professors of the courses for which they are enrolled. Since participants reside in all areas of this geographically diverse State this allows team and individual learning in the critically important course work to expand and deepen their practice.

iLeadAZ is designed to prepare principals who are ready to transform Arizona's schools to rigorous learning environments that provide equitable educational opportunities for all students. All participants must meet rigorous selection criteria and performance standards to progress to each successive program phase and to graduate. The program is led by Mary Lou Fulton Teachers College faculty, along with former Arizona principals and principal supervisors.

Question 4. Why did Arizona State University begin its new undergraduate residency? How did this change the university's approach to "student teaching?" What can other schools of education learn about clinical experiences from your efforts and

from residency programs like the Denver Teaching Residency?

Answer 4. The Mary Lou Fulton Teachers College reformed its teacher preparation program because, although we were preparing very good and effective teachers, we knew through feedback from students, schools and because of our successful Professional Development Schools funded by TQP grants, that all of our students had to be immersed in partnership schools. We knew that they had to spend many more hours in schools with excellent supervision and our partner schools districts had to be a key component of the experience. Simple as it may sound, we knew we had to figure out how to prepare the best teachers we could for all schools.

We also knew that we have a responsibility to our students to provide a most rigorous program which would prepare them to teach in any setting and be successful. We call our reformed teacher education program, "iTeachAZ." The signature component of iTeachAZ is the Senior Year Residency (SYR). During the SYR, teacher candidates co-teach in a preK-12 classroom under the direction of a highly effective mentor teacher and a full-time ASU clinical faculty member. That means there are three teachers in the classroom who are all learning from each other. Courses em-

phasizing teaching methods are taught in district locations to emphasize integration of theory and practice. The role of the iTeachAZ Mentor Teacher is to serve as a coach who models and plans effective best teaching practices, creates a supportive classroom environment where teacher candidates are encouraged to take risks, and observes and provides specific feedback to teacher candidates to ensure their preparedness to enter the teaching profession as highly effective, reflective teachers that impact and inspire all students.

The Senior Year Residency model is a significant departure from ASU's former model of student teaching. In the past preservice teachers spent one semester in a classroom and were supervised by part-time faculty. The mentor teacher often left the student teacher alone in the classroom to "sink or swim" rather than serving as a coach who modeled effective instructional strategies. The part-time faculty member had little knowledge of the student teacher or the preparation program. This model led to ineffective coaching from both in-service teachers and university fearlity.

Mary Lou Fulton Teachers College can help other schools of education with the design of intensive clinical experiences in partnership with local school districts. We have planned and implemented a replicable model and scaled it to 4,000 undergraduates. We can provide leadership on developing deep partnerships with districts and schools, reformed general education courses and necessary relationships with community colleges, training mentor teachers, performance assessments for student teachers and the academic core of the residency which is in our syllabi. Our materials are available online in our Professional Learning Library.

SENATOR WARREN

Question 1. Please provide whatever data is available, including the proportion of TEACH Grant recipients who end up repaying their "grants" as a loan, and any steps your college takes to ensure that TEACH Grants go only to those students who are likely to enter into teaching upon graduation.

Answer 1. Researching the information we have internally in our university's student records and comparing it with information obtained from FedLoan Servicing (PHEAA), we have come to the conclusion that the percentages being provided to the committee most likely are overstated. We believe the 75 percent rate duplicates students by including the same students across multiple grant years and possibly multiple loans when students eventually convert. This illustration example is an example. This information was provided to us by the servicer detailing the number of grants converted with the footnote that students may have more than one loan depending on circumstance:

ASU TEACH Grant to Loan Conversions Historical Perspective*

	Recipients	Grants	Loans
2009–10	1,183	465	727
2010–11	1,287	597	690
2011–12	1,488	863	625
2012–13	1,265	1,038	227
2013–14	1,182	1,166	16
2014–15	41	41	0

^{*}Students may have more than one loan depending on circumstance.

The total number of recipients in this scenario is 6,446. This is almost 50 percent more students than actually received the TEACH Grant. In another email received from PHEAA, it was stated that according to their records 4,330 students received the TEACH Grant; our internal records indicate 4,315 individual students received a grant at any given timeframe and is a more accurate number to use in any analysis. We also found from our records that 1,965 students received the grant in multiple years and therefore should not be or were counted more than once.

In terms of which grants were converted, the university does not have access to loan conversation data because it is post-graduation consequently, we cannot say for certain which individuals specifically converted their grant(s). To make an estimate, we did investigate whether or not those who received the TEACH Grant had graduated yet or perhaps graduated with another degree outside of teaching. We also took into account that not all who graduate with a teaching degree may enter the field of teaching and that not all students who have received the grants have completed their degrees at this point (e.g., 2013–14 students most likely are still enrolled). Taking all of the information into consideration, our results are as follows:

Revised Student Receiving the Federal TEACH Grant at ASU—as of 4/1/14

	Have Not Graduated Yet	Graduated Outside College	Graduated From College	Total Number of Students	Percent Potential For Conversion† [In percent]
Total Possible Students 2012 And Prior:	504	85	1,799	2,388	24.66
are Teaching‡ Total Students who Span Multiple Years Of Aid Disbursement:				1965	39.73

[†] For 2012 data forward, Potential Conversion Percent only includes those graduating outside of the College as students not yet graduated after 2012 may still be enrolled in the College.

‡ Excludes aid that has continued in 2013 or 2014 as some of those students may be still enrolled in the College and not in a conversion

Based on our findings, we conclude that the 39.73 percent figure is a more reasonable figure of loan conversion rate. Of course, we recognize that without a student level loan data file a perfect figure cannot be achieved. However, we believe our methodology for calculating the percentage was more reasonable than summative, duplicative data accounts.

Question 2. Please discuss the obstacles to creating more teacher residencies or other programs that place a greater emphasis on clinical preparation and what can the Federal Government do to help schools of education overcome these barriers.

Answer 2. The biggest obstacle is an adherence to past (and often ineffective) practices and a lack of openness to change. Perhaps if teacher preparation programs had to report data about the success of their students, they would have to face their own failures and see their own successes. That is the biggest challenge: failure to improve. Other major "obstacles" but necessary components are:

- Implementing a residency model is an expensive venture for colleges of education and preservice teachers. Putting a full-time clinical person onsite is far more expensive than hiring an army of part time supervisors who have no connection to the program. (This is centrally important.)

 • Students completing a full-time residency while taking coursework need finan-
- cial support beyond what is typically available to undergraduate students. This includes funding for professional clothing, transportation, and teaching materials which is often not covered by grants and student loans. We have raised tens of thousands of dollars for our residency students. And we have worked with other agencies, like the Phoenix Suns, to give stipends and scholarships.

 • Developing deep and mutually responsible partnerships with school takes com-
- mitment over the long haul. From both sides.

 Getting full-time tenure track and clinical faculty to talk about how to best prepare teachers is necessary to provide best research-based effective teaching practices
- Implementing a performance assessment to all completers which has validity and trained evaluators to ensure reliability.
- Collecting data on the effectiveness of the program with a consistent feedback mechanism for improvement.

The Federal Government can raise expectations and highlight exemplars. The question is whether to use a carrot or a stick. Probably both are necessary. Using title II reporting data to evaluate programs and provide feedback is centrally important.

RESPONSE OF TIMOTHY DALY TO QUESTIONS OF SENATOR BENNET, SENATOR MURRAY AND SENATOR WARREN

SENATOR BENNET

Question 1. What indicators and metrics should the Federal Government be asking teacher preparation programs and States to report?

Answer 1. As we indicated in our April 18 letter to Chairman Harkin and Ranking Member Alexander for the record, we recommend that Congress adopt an almost entirely new approach to title II that focuses on collecting data that focuses on the outcomes realized by teachers once they are in the classroom. This involves collecting only baseline information from preparation programs-data related to student enrollment and program completion, in aggregate and broken out by affinity groups and certification type according to State law. States should collect and aggregate employment data for all teachers, indicating their preparation program. States should then math that data with preparation programs on a 1:1 basis where possible or on an aggregate basis by provider as a minimum. This data, linking preparation programs to employment and effectiveness, should be reported by the State to the Federal Government.

Question 2. What should the Federal Government do to help improve the quality of programs? If the Federal Government can only accomplish one thing on teacher preparation in the Higher Education Act re-authorization, what would that be?

Answer 2. In a revised approach to title II and title IV (as it affects relevant pro-

grams), the Federal Government can drive improvement through three mechanisms:

- 1. Data collected under Title II should be collected and reported at a level of granularity that programs can use to improve their operations; for example, overall evaluation ratings for graduates will not sufficiently inform programs as to whether candidates in their program are consistently succeeding or struggling in any particular area of their practice.
- 2. Data should be presented to preparation programs and teacher candidates in a timely fashion-no more than 1 year after a given event occurs. This enables programs to quickly adapt based on trends, and allows candidates to make informed choices on where they attend.
- 3. The Federal Government should significantly restrict access to title IV funds to programs identified by States as low performing. This should include not just access to TEACH grants but all Federal student aid. Whatever burden this places on teacher preparation programs in terms of financial aid administration is worth preventing future teacher candidates from accruing debt attending a program that will not prepare them for success in the classroom.

Question 3. What does an intense clinical experience look like for principals-in-

training and what programs are doing this well?

Answer 3. TNTP is just beginning to explore effective clinical experiences for school leaders. We are not yet ready to claim that we ourselves have an effective approach, nor are we prepared to identify other programs as successful based on the indicators that matter most: student success. However, we are happy to share the approach we are taking to clinical experience for principals-in-training in our Philadelphia and Camden (N.J.) Pathways to Leadership in Urban Schools (PLUS) programs.

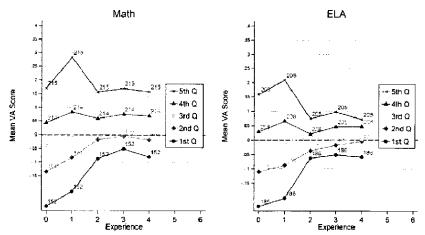
- Providing dedicated coaching in addition to the mentor principal that the principal-in-training works under, freeing the full-time principal to continue their work while ensuring the trainee receives constant feedback and support.
- · Focusing pre-service training and in-service professional development on instructional leadership, trusting mentor principals to provide guidance on building leadership and community context while using "off-stage" time to emphasize the importance of helping teachers do their best work possible.
- Giving full responsibility—with oversight from the mentor principal—for the performance and development of a team of 7 to 12 teachers in their placement school, again emphasizing that a principal's primary job is ensuring the effectiveness of their teachers.

SENATOR MURRAY

The Higher Education Act was last reauthorized in 2008, as the Higher Education Opportunity Act. Since then the landscape of higher education has changed and the need for high-quality teachers has increased.

Question 1. What have we learned from research and practice since the last reauthorization in 2008 about what are the most essential components/practices in preparing successful novice educators? Both in terms of how to design clinical experiences and coursework?

Answer 1. Since 2008, we have learned that the traditional approach to training novice teachers—a training that is inch-deep, mile-wide, heavy on theory and light on practice-fails to prepare the majority of new teachers for success in the classroom. We have also learned that first year teachers perform at different levels, and that their performance in the first year is a strong predictor of their performance in years to come. Put simply: a teacher who makes a strong start is more likely to be an effective teacher in their fifth year than a teacher who struggles. The chart on the following page summarizes research from a 2013 research paper¹ from academics at the University of Virginia and Stanford, showing that early success is remarkably predictive of success in future years.



At TNTP, we have also learned that a new approach to training—one that focuses squarely on the skills most important for early classroom success—can prepare more teachers to be effective in their first year. We identified these skills—Clear Delivery of Instruction, Maintaining High Reademic Expectations, Maintaining High Behavioral Expectations, and Using Time Effectively—through analysis of our own Teaching Fellows programs. We now focus our pre-service training (the summer training our Fellows receive before entering the classroom) on these skills, waiting to layer additional skills and content—and withholding access to the classroom—until these foundational skills are mastered. Fellows practice the skills repeatedly via on-stage teaching (during summer school) and off-stage practice with their peers. They also receive real-time feedback from coaches—themselves effective teachers hired from local schools.

These elements—focus, practice, and feedback—represent the core of what we have discovered is the most effective approach to clinical training. While other programs may take different approaches, we believe the most successful are those that have adopted a similar framework.

Question 2. As we think about how to best target the Federal investment in educator preparation programs, what are the lessons learned from the Teacher Quality Partnership Grants? How can the program be enhanced through this next reauthorization?

Answer 2. TNTP has not participated in a Teacher Quality Partnership Grant, and thus respectfully withholds commentary on lessons learned from these programs.

SENATOR WARREN

The thing that makes teacher preparation so important is the very same thing that makes it so challenging: it is a high-stakes endeavor. When teachers enter the classroom, they need to be fully prepared, because students rely on them—and students don't have a year or two to wait while their teachers get up to speed.

Teacher residency programs that emphasize clinical experience as well as classroom learning are one promising way to help new teachers get experience before taking on sole responsibility for a classroom. The Boston Teacher Residency is a program that gives aspiring teachers an opportunity to engage in a year-long classroom apprenticeship combined with college coursework. Early analyses, including one of the Boston Teacher Residency, suggest that teacher-residents have better retention rates and greater effectiveness in the classroom than their peers in the long term.

¹Atteberry, A., Loeb, S., & Wyckoff, J. (2013). Do first impressions matter? Improvement in early career teacher effectiveness. *Calder Working Paper 90*. Washington, DC: National Center for the Analysis of Longitudinal Data in Education Research (CALDER).

Question. Please discuss the obstacles to creating more teacher residencies or other programs that place a greater emphasis on clinical preparation and what can the Federal Government do to help schools of education overcome these barriers.

Answer. There are many obstacles to expanding teacher residencies, but two greatest barriers are arduous and arbitrary program approval processes and access to funding. Program approvals vary State by State, and the Federal Government is ill-positioned to force States to change these processes. However, we hope that by adopting some of the stronger data collection and reporting practices described earlier in these responses and in our April 18 letter to the record, States themselves will use the new data at their hands to reform program approval processes and focus on effectiveness rather than institutional inputs.

Funding is an equally challenging barrier. To encourage people to pursue a new career but require that they participate in full-time training, they must have the opportunity to either earn a full-time salary or—like others who learn full-time—access Federal student aid. There are some successful teacher residencies, as well as non-residency programs such as ours that still emphasize clinical experience, that have found ways to make this financial calculation work for both the districts we serve and the candidates we train, but it is extremely expensive.

In the case of residency programs, districts pay upwards of \$20,000 per teacher to help cover expenses—and those teacher candidates often still need to take out loans. At TNTP, we face the choice of privately fundraising to keep our program sustainable or to significantly raise our tuition—tuition for which our Fellows can-

not access Federal financial aid. Our district partners can pay no more, no matter how critical their shortage in these hard to staff schools and subjects.

The Federal Government can help to address this by opening access to title IV aid—especially Pell Grants—to post-baccalaureate teacher preparation programs outside of institutes of higher education as well as to degree-granting programs. Presently, candidates who are eligible for a Pell can get one for a post-baccalaureate teaching program, but only at an IHE. This prohibits them from choosing programs like ours or residencies that they may prefer. This hurts the diversity of the teaching profession, as many university programs are outside the cost reach of diverse candidates even with a Pell award. Other forms of title IV aid should also be opened to non-IHE programs so they can compete on an equal plane with those that grant master's degrees.

[Whereupon, at 4:07 p.m., the hearing was adjourned.]

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