Rethinking the Connections Between Campus Courses and Field Experiences in College and University-based Teacher Education

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Abstract

In this paper, I discuss one of the central problems that has plagued college and university-based pre-service teacher education for many years, the disconnect between the campus and school-based components of programs. First, I will draw on my own experiences as a teacher educator and administrator over the last thirty plus years at the University of Wisconsin-Madison and the literature to lay out various dimensions of this issue. Then, utililizing the concept of hybridity and "third space," I will discuss a variety of current work in programs across the U.S. that offers much promise in deepening the quality of teacher learning in college and university-based teacher education programs and the ability of teacher education graduates to enact desired teaching practices in complex school settings. This work in creating hybrid spaces in teacher education where academic and practitioner knowledge and knowledge that exists in communities come together in new less hierarchical ways in the service of teacher learning represents a paradigm shift in the epistemology of teacher education programs. I argue that this shift toward more democratic and inclusive ways of working with schools and communities is necessary for colleges and universities to fulfill their mission in the education of teachers.

Keywords: Education of teachers; Campus and school-based; Programs across.

Repensando as conexões entre a formação na universidade e as experiências de campo na formação de professores em faculdades e universidades

Resumo

Neste artigo, discuto um dos problemas centrais que tem afligido, já há alguns anos, os cursos de formação inicial de professores nas faculdades e nas universidades, a desconexão entre os componentes curriculares acadêmicos e a parcela da formação docente que acontece nas escolas. Primeiro, extrairei de minha experiência como formador de professores e administrador durante mais de trinta anos na Universidade de Wisconsin – Madison e da literatura, elementos para discorrer sobre as várias dimensões dessa questão. Assim, usando o conceito de hibridismo e "terceiro espaço", discutirei vários trabalhos, em andamento em programas formativos nos Estados Unidos, promissores quanto à qualifi-

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cação da aprendizagem docente nos cursos de formação de professores das universidades e das faculdades, assim como a habilidade dos graduados dos cursos de formação de professores para realizar práticas de ensino desejadas em espaços escolares complexos. Esse trabalho de criação de espaços híbridos na formação de professores no qual o conhecimento empírico e acadêmico e o conhecimento que existe nas comunidades estão juntos de modos menos hierárquicos a serviço da aprendizagem docente representam uma mudança de paradigma na epistemologia dos programas de formação de professores. Discuto que essa mudança rumo a modos mais democráticos e inclusivos de trabalhar com escolas e comunidades é necessária para as faculdades e as universidades, a fim de que elas possam cumprir sua missão na formação de professores.

Palavras-chave: Formação de professores; Universidade-escola; Programas formativos.

> Staffed with graduate students, temporary and part-time faculty and with few resources to develop field placements, U.S. teacher certification programs are the Cinderellas of the American university. Ideas and money are rarely spent on coordinating what is learned on campus with what goes on in schools (Featherstone, 2007, p. 210).
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> Often, the clinical side of teacher education has been fairly haphazard, depending on the idiosyncrasies of loosely selected placements with little guidance about what happens in them and little connection to university work (Darling-Hammond, 2009, p. 11).

In this paper, I discuss one of the central problems that has plagued college and university-based pre-service teacher education for many years, the disconnect between the campus and school-based components of programs. First, I will draw on my own experiences as a teacher educator and administrator over the last thirty plus years at the University of Wisconsin-Madison and the literature to lay out various dimensions of this issue. Then, utililizing the concept of hybridity and "third space," I will discuss a variety of current work in programs across the U.S. that offers much promise in deepening the quality of teacher learning in college and university-based teacher education programs and the ability of teacher education graduates to enact desired teaching practices in complex school settings. This work in creating hybrid spaces in teacher education where academic and practitioner knowledge and knowledge that exists in communities come together in new less hierarchical ways in the service of teacher learning represents a paradigm shift in the epistemology of teacher education programs. I argue that this shift toward more democratic and inclusive ways of working with schools and communities is necessary for colleges and universities to fulfill their mission in the education of teachers.

In order to enable me to focus on campus-field connections in this paper, I am using the term academic knowledge to represent the diverse forms of knowledge and expertise that exists among college and university faculty and staff. In doing so, I recognize that this is an oversimplification and that within colleges and universities there are various cultures that are often in tension with each other within and outside of the schools, colleges and departments of education (Bullough et al. 1997; Goodlad, 1990; Labaree, 2004). My use of the term academic knowledge includes both the knowledge acquired in arts and science and education courses. An examination of the internal tensions within teacher education institutions is beyond the scope of this paper.

For most of my career as a university-based teacher educator, I have been responsible for organizing and supporting field-based experiences in schools and communities for prospective teachers and in doing research on the processes of student teacher learning in pre-service teacher education programs. One of the most difficult challenges for me over the years has been to mobilize intellectual energy in my department around strengthening the connections between what our student teachers do in their school and community placements and the rest of their teacher education program. For the most part, the supervision of student teacher work in schools and the teaching of campus courses have been done at UW-Madison by doctoral students and this work serves as their main source of financial support during their graduate studies (Zeichner, 2005).

While most of these graduate students are interested in doing an outstanding job in teaching and/or supervising pre-service students, many of them are not interested in teacher education as a field of study and do not participate in any of the graduate courses that are available to them that address the literature on teacher education and learning to teach. Although they may be experts in the teaching or reading or mathematics and have a number of years of successful P-12 teaching experience, they are often not aware of what is known from research about how to support teacher learning and its transfer to the early years of teaching in the context of a university-based teacher education program (e.g., Cochran-Smith & Zeichner, 2005; Darling-Hammond, 2006; Smagorinsky, Cook & Johnson, 2003) and they do not necessarily think of themselves as teacher educators.

Even when graduate students have the knowledge and expertise related to supporting student teacher learning and do a good job in their work, their time in the program is limited and each fall a new cohort of graduate students enters the department with little knowledge of the specifics of the work that has gone on before and the process of inducting them into an ongoing process of program renewal begins anew. Because graduate student supervisors often come to Madison from around the world to complete their studies, they are often not familiar with the local schools, and the manner in which their roles are often structured has them working in several different schools at any moment and in somewhat different schools each semester. Also, with the exception of the two

elementary education professional development school cohorts where students stay with the same university supervisor and the same two schools over 4 semesters, each semester a supervisor is responsible for working with a different group of practicum students or student teachers, a situation that makes it more difficult to go into depth in the supervision process (Zeichner & Miller, 1997).

Even in UW-Madison programs and in other institutions where permanent faculty and/or staff participate in a significant way in teaching campus courses in teacher education programs and in supervising students in their field placements the disconnection between campus and field-based teacher education has been a perennial problem (Vick, 2006). It has been clearly documented for many years (e.g., Clifford & Guthrie, 1988; Goodlad, 1990; Labaree, 2004), there are few incentives for tenure-track faculty to invest time in coordinating campus and field-based teacher education components and closely mentoring and monitoring the work of field-based supervisors. Sometimes institutions have turned to using a corps of clinical faculty (e.g., recently retired teachers) to do the work of supervising students in their school placements, but often these very dedicated and competent individuals lack the authority to participate in decisions about the teacher education programs and are not in close touch with the campus-based portions of the programs (Bullough et al. 1997; Bullough et al. 2004; Cornbleth & Ellsworth, 1994; Zeichner, 2002).

Often the placement process in college and universities is "outsourced" to a central administrative placement office rather than being based in departments, and cooperating teacher availability and administrative considerations rather than what is best for the learning of the novice teachers often determines where prospective teachers are placed for their school experiences (Zeichner, 1996).

On the school side, the classroom teachers who are asked to mentor teacher candidates who are placed in their classrooms for varying periods of time during practicum, student teaching and internship experiences are asked to do the work of teacher education in addition to fully carrying out the responsibilities of classroom teaching and if they are compensated for this work at all, they usually receive what would amount to a below minimum wage salary if it were calculated per hour. Under the traditional view of field experience which has been dominant for many years, these school-based teacher educators are expected mainly to provide a place for student teachers to practice teaching and they are usually not provided with the kind of preparation and support they would need (Valencia et al, in press) to implement a more active and educative conception of mentoring (Carroll, 2007; Margolis, 2007). As Gorodetsky, Barak, & Harari (2007) point out, even in the current wave of school-university partnerships in teacher education, colleges and universities continue to maintain hegemony over the construction and dissemination of knowledge, and schools remain in the position of "practice fields" (Barab & Duffy, 2000) where student teachers are to try out the practices provided by the university.

The Traditional Divide between Campus and Field-Based Teacher Education

In the historically dominant "application of theory" model of pre-service teacher education in the U.S. prospective teachers are supposed to learn theories at the university and then go to schools to practice or apply what they learned on campus (Korthagen & Kessels, 1999; Tom, 1997). Alternatively in some of the early entry models of teacher preparation where there is very little pre-service preparation before candidates assume full responsibility for a classroom, it is assumed that most of what novice teachers need to learn about teaching can be learned on the job in the midst of practice and that the role of the university in the process can be minimized without serious loss (Grossman & Loeb, 2008).

Although there is a growing consensus that much of what teachers need to learn must be learned in and from practice rather than in preparing for practice (Ball & Cohen; Hamerness et al. 2005) there is much disagreement about the conditions for teacher learning that must exist for this learning in and from practice to be educative and enduring. For example, the point at which a teacher should become the teacher of record is an issue about which there has been much disagreement (Stoddart & Floden, 1996). Advocates of "early entry" programs have argued that with careful selection and a minimum of pre-service training, individuals can become teachers of record fairly quickly and learn what they need to learn about teaching with the support of a good mentor (Grossman & Loeb, 2008). Others advocate for a more gradual entry to teaching with the assumption of full responsibility for a classroom coming after or in conjunction with a substantive coursework component and an extended internship or residency under the careful guidance of a mentor teacher who is responsible for the classroom. The teacher residency models that are the focus of a $100 million dollars of federal stimulus money in the first year of the Obama administration are an example of programs that represent the later position (Berry, Montgomery, & Snyder, 2008).

A perennial problem in traditional college and university sponsored teacher education programs has been the lack of connection between campus-based university-based teacher education courses and field experiences. Although most university-based teacher education programs now include multiple field experiences over the length of the program and often situate field experiences in some type of school-university partnership (e.g., professional development schools, partner schools), the disconnect between what students are taught in campus courses and their opportunities for learning to enact these practices in their school placements is often very great even within professional development and partner schools (Bullough et al, 1997; Bullough, et al. 1999; Zeichner, 2007).

For example, it is very common for cooperating teachers with whom students work during their field placements know very little about the specifics of the methods and foundations courses that their student teachers have completed

on campus and the people teaching the campus courses often know very little about the specific practices used in the P-12 classrooms where their students are placed. Student teachers frequently do not have opportunities to observe, try out and receive focused feedback about their teaching of methods learned about in their campus courses. Even if the practices advocated in campus courses exist in the classrooms where student teachers teach, they do not necessarily get access to the thinking and decision making processes of their experienced mentors (Hammerness et.al. 2005; Zeichner, 1996) who are usually vastly under compensated for the complex and difficult work they are expected to do to mentor prospective teachers. Darling-Hammond (2009) has referred to the lack of connection between campus courses and field experiences as the Achilles heal of teacher education.

Although many programs include field experiences throughout the curriculum, the time that teaching candidates spend in schools is often not carefully planned like campus-based courses with a "clinical curriculum" (Turney et al. 1985). With the exception of a few assignments in methods courses that students are asked to complete in their field placements, student teachers or interns and their cooperating teachers are often left to work out the daily business of student teaching by themselves with little guidance and connection to campus courses and it is often assumed that good teaching practices are caught rather than taught (Darling-Hammond, 2009; Valencia et al. in press).

Research has clearly shown that field experiences are important occasions for teacher learning rather than merely times for teacher candidates to demonstrate or apply things previously learned (Zeichner, 1996). Rosaen & Florio-Ruane (2008) discuss how taken-for-granted assumptions about the purposes of field experience in teacher education limit their value as teacher learning experiences and offer ideas for rethinking field experiences as more productive learning environments. Cochran-Smith & Lytle's (2009) ideas about using teaching practice as a site for inquiry are another example of changing the paradigm for thinking about the role of field experiences in educating teachers. Two of the most in-depth national studies of teacher education in the U.S. have shown that carefully constructed field experiences that are coordinated with campus courses are more influential and effective in supporting student teacher learning than the unguided and disconnected field experiences that have historically been dominant in American teacher education (Darling-Hammond, 2006, Tatto, 1996). There are numerous studies that have demonstrated for many years, the obstacles to student teacher learning that are associated with the traditional loosely planned and monitored model of field experiences (e.g., Feiman-Nemser & Buchmann, 1985; Griffin et.al. 1983; Stones & Morris, 1977; Zeichner, 1996).

Over the years teacher educators have tried a variety of approaches to strengthening the connections between campus and field-based teacher education and some have even argued that clinical experiences should be the central focus of pre-service teacher education from which everything else in a

program emanates (Turney, et al. 1985; Ball & Forzani, 2009). These strategies have included creating campus-based laboratory schools on college and university campuses where particular teaching approaches can be demonstrated practiced under the guidance of university faculty and staff (Fraser, 2007). Short of opening whole schools on campuses, teacher educators have also created smaller clinical laboratories on campuses where specific teaching skills and practices are taught (Berliner, 1985; Grossman, 2005; Metcalf & Kahlich, 1996), have sought to model in campus courses the practices that they hope their students will use in P-12 classrooms, created simulations of classroom situations or assembling records of classroom practice using tools such as hypermedia, written and multimedia cases, and have created assignments that students are expected to implement and analyze in their school placements. Additionally, in some programs, the same individuals serve as the methods instructors and field supervisors (e.g. Cohn, 1981).

Since the early 1970s, John Goodlad has advocated for the creation of Centers of Pedagogy on college and university campuses as a structure within which teacher education should be located. According to Goodlad (2004a), this structure:

> Is a setting that brings together and blends harmoniously and coherently the 3 essential ingredients of a teacher's education: general, liberal education, the study of educational practice and the guided exercise of the art, science and skill of teaching. (pp.2-3).

Currently, there are a number of institutions within the National Network for Educational Renewal (http://www.nnerpartnerships.org/) that have implemented the concept of a Center of Pedagogy such as Montclair State University and Brigham Young University (Patterson, Michelli & Pacheco, 1999). Although in some respects these structures have created a more neutral space where the constituents of teacher education (except for the broader community) can come together in a relationship of mutual benefit and mutual respect, it appears to me as an observer from the outside, that the universities and schools in these partnerships have maintained their separate cultures and unique forms of discourse and that the institutional aspect of the renewal process has been limited. The kinds of collaborations that will be discussed in this paper focus more on creating new kinds of roles for teacher educators and ways of bringing academic, practitioner and community-based knowledge together in the teacher education process rather than on structural change in teacher education institutions.

In this paper, I will use the concept of "third space" as a lens to discuss various kinds of boundary crossings between campus and schools that are currently being enacted in teacher education programs across the U.S. With the emergence of school-focused teacher preparation in the teacher residency models that are being promoted in the current federal administration in the U.S. (Berry.

et.al. 2008), clinical experiences and the teaching of practice in university-based pre-service teacher education are receiving a significant amount of attention and traditional ways of organizing both campus and field-based teacher education are being rethought.

Creating New Hybrid Spaces Linking Practitioner and Academic Knowledge

The idea of a third space comes from hybridity theory and recognizes that individuals draw on multiple discourses to make sense of the world (Bhabba, 1990). Third spaces involve a rejection of binaries such as practitioner and academic knowledge, and theory and practice, and involve the integration of what are often seen as competing discourses in new ways- an either/or perspective is transformed into a both/also point of view. The concept of third space has been used in fields such as geography, the arts, postcolonial studies, feminist studies and most recently in education (e.g., Gutierrez, 2008; Moje, et.al. 2004; Soja, 1996) including teacher education (Cochran-Smith & Lytle, 1999).

My use of third space in this paper is concerned with the creation of hybrid spaces in pre-service teacher education programs that bring together school and university- based teacher educators and practitioner and academic knowledge in new ways to enhance the learning of prospective teachers. Contrary to the traditional disconnection of campus and schools and to the valorization of academic knowledge as the authoritative source of knowledge for learning about teaching in traditional college and university models of teacher education (Smagorinsky, Cook & Johnson, 2003), third spaces bring practitioner and academic knowledge together in less hierarchical ways to create new learning opportunities for prospective teachers. Gutierrez (2008) argues that a third space is "a transformative space where the potential for an expanded form of learning and the development of new knowledge are heightened." (p, 152). Gorodetsky & Barak's (2008) discussion of "edge communities" in school-university partnerships in teacher education which is a kind of third space, claim that these hybrid spaces encourage a more egalitarian status for its participants than conventional school-university partnerships.

From the college and university perspective, the solution to the disconnect between the campus and schools in teacher education and continuing professional development for P-12 teachers has often been seen as figuring out better ways to bring the expertise of college and university academics to P-12 educators. This has been an outside-inside model where expertise is seen to lie primarily among academics and not among P-12 educators (Zeichner, 1995). Creating third spaces in teacher education involves an equal and more dialectical relationship between academic and practitioner knowledge in support of student teacher learning.

Boundary Crossings and the Creation of Third Spaces in Teacher Education

I will now describe several different kinds of boundary crossings that have been occurring in some college and university-based teacher education programs in recent years in an effort to bring academic and practitioner knowledge together in a more synergistic way in support of student teacher learning. Although these experiments in shifting the epistemology of pre-service teacher preparation from a place where academic knowledge in the university is seen as the primary source of knowledge about teaching to a situation where academic knowledge and the knowledge of expert P-12 teachers is treated with the equal respect. This is not a comprehensive listing of all of the institutions where this kind of work is going on. My goal is to illustrate different types of hybrid spaces that are being created in teacher education by citing just a few examples of each with which I am familiar.

Bringing P-12 Teachers and their Knowledge into Campus Courses and Field Experiences

For many years, it has been common for colleges and universities to hire P-12 educators on an adjunct basis to teach sections or portions of required courses in pre-service teacher education programs. Beyond these short term appointments, a number of programs have seconded teachers for longer periods of time to be involved in teaching and co-teaching, supervising students, and participating in ongoing program renewal and evaluation. The faculty associate positions at Simon Fraser University in British Columbia and Brigham Young University (Beynon et al, 2004; Bullough et al. 2004) and the teacher-in-residence position at the University of Wisconsin-Milwaukee (Post, et.al. 2006) are examples of this approach.

For example, at the University of Wisconsin-Milwaukee, the Teachers in Residence program seeks to create a stronger link between academic teacher preparation , and the expertise of experienced urban teachers. Teachers with evidence of a high level of competence in the classroom spend two years working in all aspects of the pre-service teacher education program including student recruitment, general education and liberal arts courses, the professional education sequence, ongoing program evaluation and renewal efforts, and in supporting graduates in their early years of teaching. During their two-year residency, these teachers participate in ongoing seminars intended to develop teacher leadership skills and then after their residency they go back to Milwaukee public schools. I had the opportunity to interview several university faculty and teacher residents during the two years that I recently spent as the external evaluator for the U.W.-Milwaukee Teachers for a New Era Project and several of the faculty whom I interviewed spoke very positively about the significant impact of the teacher residents on their courses.

Incorporating Representations of Teachers Practices in Campus Courses

An alternative to bringing teachers into campus-based teacher education activities directly is to create opportunities for representations of teachers' practices to be brought into courses. One example of this strategy has been to incorporate the writing and research of P-12 teachers (e.g., Gallas, 2004; Goldstone, 2003; Hanson, 2008) into the campus-based curriculum so that students examine both academic and practitioner generated knowledge related to particular aspects of teaching. In addition to providing teacher candidates with insights into the complexities of particular teaching practices, this strategy also provides novices with models of teachers who are able to learn in and from their practice over time.

For over ten years, the Carnegie Foundation for the Advancement worked with K-12 teachers a cross the country to create multimedia, web-based representations of their teaching practice (Pointer, Mace, 2009) Following this, a group of teacher educators across the country with support from the Carnegie Foundation used the K-12 teacher websites in their campus-based courses and created their own multi-media websites of their use of the K-12 teacher sites with their pre-service students. For example, Pam Grossman, a teacher educator at Stanford, created a site where she documented how she incorporated the website of an experienced L.A. high school English teacher (Yvonne Divans Hutchinson) in her English methods course at Stanford. One aspect of this work focused on the task of engaging students in text-based discussions of literature. In addition to reading academic literature on this topic, students utilized Hutchinson's website which includes images of her leading discussions around text in which students were very engaged, interviews with Hutchinson and statements by her students, as well as examples of student work and methods and materials that Hutchinson used to prepare her students for the discussions.

An alternative to university-based teacher educators using representations of P-12 teacher practice is for them to create representations of their own teaching of elementary or secondary children and to utilize these representations in their campus-based courses. Flessner's (2008) work at the University of Wisconsin-Madison where he constructed representations of his teaching math to elementary children and then used these representations (video clips, examples of student work) in his campus math methods course is an example of this work. Lampert & Ball's (1998) strategic documentation of their teaching of elementary math using hypermedia is another example.

Mediated Instruction and Field Experiences

For a number of years, it has been common for university-based instructors to hold a portion or all of a campus methods course in an elementary or secondary school. Holding a course in a school in and of itself does not mean however, that the course will be any different from a campus-based version. Some

teacher educators though have taken advantage of the school location and have strategically connected their school-based methods course to the practices and expertise of teachers in those schools. One example of this is the work during the past few years at the University of Washington, Seattle where methods instructors in elementary and secondary teacher education have held a portion of their courses in a K-12 partner school. Motivated by their own research that showed that their students were not taking up the ideas and practices that were advocated in their campus courses, the elementary and secondary teacher education faculty who teach methods courses all committed to mediate the gaps between their campus courses and the students' school experiences. For example, with regard to the secondary mathematics program:

> Interns did not have a vision or concrete model of what a classroom would look like where the promoted practices were used to teach math for understanding (Campbell, 2008, p.).

One out of two meetings per week of the math methods course in secondary teacher education was held at a local high school where teachers were using practices similar to those being promoted in the methods course. The class and instructor observed the same 9th grade class each week with debriefings with the teacher following the observed lesson.

The work in Seattle is similar to work done at Michigan State University in the 1990s where efforts were made to redefine the role of cooperating teachers in selected professional development schools to one where they would play a more active role in demonstrating and helping interns and pre-interns analyze specific teaching practices. In one example of this work that was documented by Michigan State researchers, a group of math methods students in elementary education spent a week in Kathy Beasley's elementary classroom observing her teach math. Prior to and subsequent to each math period, the group of methods students met with Kathy and her MSU intern to analyze the practices that were observed. ((Feiman-Nemser & Beasley, 2007).

A third example of this mediated instruction and field experiences is the work over the last decade at the University of Wisconsin-Madison where a literacy methods course has been held in a professional development school associated with the university. Here the internal PDS coordinator works with the methods instructor who is usually a doctoral student to go over the syllabus and connect the concepts and practices taught in the course to expertise that exists within the school staff. As the methods students are studying about particular approaches to literacy instruction such as balanced literacy they have a chance to observe and interact with teachers who are experts in these practices. Sometimes the class goes out on "grand rounds" (See Troen et al. 1997) into a classroom to watch a teacher engaged in a particular practice and then meet with that teacher following the observation and at the times a teacher will come

into the methods class and discuss their work often bringing artifacts of their practice such as pupil work. In both cases, there is a deliberate effort to strategically connect academic and practitioner knowledge in support of student teachers learning how to enact specific teaching practices advocated in methods courses .

Hybrid Teacher Educators

Some teacher education institutions have established clinical faculty positions where the work of teacher educators takes place both in elementary and secondary schools and on a college and university campus. I began my career as a university teacher educator in such a boundary spanning position in the mid 1970s (Howey & Zimpher, 2006) as a team leader in the National Teacher Corps project in Syracuse New York. My role as a team leader was to supervise the work of a team of interns who were engaged in a two-year school-based teacher education program in an urban elementary school. As a team leader, I needed to be intimately familiar with the coursework and community work of the interns as I supervised their field experiences over a two year period and I had to function both as a staff member in the public school in which I had taught and on the university campus.

There are a variety of different types of hybrid teacher educator positions that exist today across the nation. These include positions where clinical faculty (often not on the tenure track) work to build partnerships with local schools that focus on pre-service teacher education and sometimes also on continuing teacher professional development (Boyle-Baise & McIntyre, 2008), and positions where clinical faculty are based primarily in an elementary or secondary school and where they make placements for teacher candidates at the school level and supervise their school experiences.

For a three-year period in the 1990s, I served as the faculty liaison to two elementary professional development schools that were two of the four schools that were affiliated with UW-Madison's experimental "Teach for Diversity" program (Ladson-Billings, 1999). During this period, I received credit for one course a year for my work in co-teaching a weekly seminar for Teach for Diversity interns with a school-based university supervisor from each school in which we helped the interns analyze their work in schools in relation to a variety of concepts and perspectives that were introduced to them in their campus courses. I also worked with school staff to organize and sometimes participate in teaching in professional development activities that were designed with and for school staff, student teachers and sometimes parents. While serving as a university faculty member in elementary education and the department of Curriculum & Instruction I also had a desk in the schools and periodically attended staff meetings. These boundary spanning positions increased greatly across the country along with the growth of the professional development school movement since the mid 1980s (Zeichner, 2007).

Incorporating Knowledge from Communities into Pre-service Teacher Education

For many years, teacher educators have advocated broadening the site for pre-service teacher education from the campus and schools to the broader communities in which schools are situated (e.g., Cuban, 1969 Flowers et.al. 1948). Although some community-based field experiences in teacher education have focused on service learning and on tutoring pupils and do not give student teachers contact with adults in the broader community, other lines of work in community-based teacher education have focused on strategically utilizing the expertise that exists in the broader community to educate prospective teachers about how to be successful teachers in their communities (e.g., Boyle-Baise & McIntyre, 2008; Mahan, 1982; Sleeter, 2008a; Zeichner & Melnick, 1996). Barbara Seidel and Gloria Friend's work over a decade in Columbus Ohio (e.g., Seidel & Friend, 2002) is an example of the later approach to community-based learning. In this work, prospective teachers in elementary education at Ohio State University were paired up with equal status adults in an African American Baptist church educational program and the researchers were able to document the impact of these equal status relationships with adults on the development of cultural competence in prospective teachers. Finally, the work of teacher educators at the University of Massachusetts-Boston illustrates yet another approach to utilizing community expertise in teacher education. In this case community members were used as resources for educating the faculty about the communities for which they were preparing teachers to teach (Koerner & Abdul-Tawwab, 2006).

Conclusion

Since the early days of teacher education programs in colleges and universities in the U.S. scholars have argued against unguided school experience and for carefully planned and purposeful school experiences based on the quality of teacher learning that is associated with each (e.g., Dewey, 1904). In this paper, I have discussed a number of contemporary efforts in the U.S. to bridge the gaps between campus and school-based teacher education and the gaps between both of these and the broader communities in which schools and colleges and universities exist.

These efforts involve a shift in the epistemology of teacher education from a situation where academic knowledge is seen as the authoritative source of knowledge about teaching to one where different aspects of expertise that exist in schools and communities are brought into teacher education and co-exist on a more equal plane with academic knowledge. It is argued that this broader view about the kinds of expertise that are needed to educate teachers expands opportunities for teacher learning as new synergies are created through the interplay of knowledge from different sources. Recent research using activity theory on school to work transitions and the interaction of different activity systems supports this assertion (e.g., Tuomi-Grohn, 2007). While the creation of these

kind of hybrid spaces in teacher education does not directly address the institutional and cultural problems that have persistently undermined the quality of teacher education in colleges and universities and schools for many years (e.g., its low status, the lack of rewards for good work in teacher education, the lack of adequate funding), it does create spaces for student teacher learning that take advantage of multiple sources of expertise that can support high quality teaching.

Although high quality research on the impact of various forms of coursework, and school and community field experiences on prospective teachers' perspectives and practices is fairly limited (e.g., Clift & Brady, 2006; Floden, 2005), some research has begun to document the impact of certain kinds of teacher education experiences and programs on influencing prospective teacher learning in desired directions. For example, Darling-Hammond et.al. (2006) and Zeichner & Conklin (2008) have concluded that the extant research on exemplary teacher education programs shows that where field experiences are carefully coordinated with coursework and carefully mentored, teacher educators are better able to accomplish their goals in preparing teachers to successfully enact complex teaching practices. In another example, Campbell (2008) reports that at the University of Washington, Seattle where interns participated in mediated instruction in their math certification program, they developed a deeper understanding of the promoted teaching practices and were more successful in enacting the practices in diverse urban secondary schools.

The growing contemporary focus on rethinking and redesigning the connection of college and university coursework in pre-service teacher education to the schools and communities for which teachers are being prepared to work is a hopeful sign that the traditional distanced and disconnected model of university-based pre-service teacher education is on its way out. It is necessary though that colleges and universities and P-12 schools begin to better recognize and reward those faculty and staff who do exemplary work within the hybrid spaces that are created or the impact of this work will be minimal on the field as a whole.

The continued lack of reward and recognition available to faculty in research-oriented universities for doing good work in teacher education has resulted in an increased reliance on clinical faculty and graduate students to staff teacher education programs and the abandonment of this work by many tenure-track faculty (Bullough et al. 1997; Goodlad, 1994). Although these graduate students and clinical faculty have brought many positive things to college and university-based teacher education programs from their recent experiences in schools, the kind of transformation in the epistemology of teacher education that has been discussed in this paper cannot be realized in research oriented universities without the direct engagement of these tenure-track faculty. In order for these faculty to be involved, senior tenured faculty and administrators must assume leadership in creating the conditions where faculty will be rewarded for their engagement and for creating and sustaining exemplary teacher education programs.

It is also important that in the current fiscal climate of consistently diminishing budgets in colleges and universities (Lyall & Sell, 2006) that teacher education receive its fair share of institutional resources to provide high quality teacher preparation programs with rigorous and carefully planned clinical components. The kind of work that has been described in this paper cannot be done well on a large scale with the kind of under funding that teacher education has often experienced on college and university campuses.

Many of the examples of boundary crossing that I have mentioned in this paper are located at research universities and/or were supported with some external funding. It is important to figure out how to enact these kinds of hybrid practices in all kinds of teacher education programs including early entry programs, in different kinds of teacher education institutions, and with regular ongoing funding.

Currently, there are a lot of resources that are being devoted to meeting elaborate accountability mechanisms to monitor the compliance of teacher education institutions to state requirements. It is clear that much of this monitoring activity does not address or contribute to improving the quality of teacher education programs (Johnson et al. 2005; Sleeter, 2008b; Zeichner, 2008) and that a more significant impact on enhancing program quality and student teacher learning can be achieved by developing more streamlined and relevant accountability systems and reallocating much of the money now being spent on the bureaucratic and hyper-rationalized monitoring of programs to support the kind of school-university and community connections that have been described in this paper. There is some empirical evidence that the human effort and financial resources that teacher education institutions have had to devote to producing detailed and extensive reports to states and accreditation agencies on their programs have diverted the attention of teacher educators away from creating the kind of innovative practices that have been discussed in this paper (Kornfeld et al. 2007; Rennett-Ariev, 2008). Providing competitive funding for developing high quality school-university-community collaborations in teacher education like the examples discussed in this paper would be a far better use of money than what is currently taking place.

Another way to support the development and continual improvement of these practices in a variety of institutions and programs is to support the networking of institutions focused on the creation of these kinds of boundary spanning and hybrid practices. The National Network for Educational Renewal created by John Goodlad and his colleagues in 1986 is an example of such a network. Networks like the NNER can provide opportunities for teacher educators to learn from one another about how to create successful examples of hybrid practices in a variety of contexts, can provide technical assistance in doing so, and can help provide opportunities for the funding of some of these initiatives. Currently, the NNER is launching a project that is focused on preparing new teacher educators to engage in the kinds of hybrid practices discussed in this paper.

There is a great deal of impatience with colleges and universities across the country for what is perceived to be our unwillingness to change and work with schools and communities in closer and more respectful ways across teachers' careers (e.g., Hartocollis, 2005). Despite the complexity of bringing this new epistemology of teacher education into the mainstream, unless we are able to do so relatively soon, college and university-based teacher education may be replaced as the main source of teachers for the nation's public schools. The explosion of fast track programs and other providers where the role of colleges and university faculty and staff is minimal (Holland, 2004) will be come the norm. This will be to the detriment of both teacher and pupil learning because the expanded learning opportunities that are created through the interplay of different sources of knowledge will not be realized.

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Notas

[1] This includes attention to how practice is taught in other professional preparation programs (Grossman, et al. 2009).

[2] Cochran-Smith & Lytle use the term "third culture" rather than third space.

[3] Both the K-12 teacher sites and the teacher educator sites can be accessed at insideteaching.org

[4] By hyper-rationality, I mean extreme pressure on teacher education institutions to rationalize their programs and student assessment systems to a point where the demands for accountability and compliance begin to interfere with and undermine the accomplishment of the goal of educating teachers (See Wise, 1979 for a discussion of this term with regard to K-12 education). See Zeichner (2008) for a discussion of more reasonable and cost effective accountability measures for teacher education.

[5] It should be noted that NCATE is currently engaged in a major effort to address widespread concerns about hyper-rationalization in their accreditation process.

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