The evaluation of a Goals 2000 initiative in New York state is explored through these four dimensions: focus, innovation, involvement of teachers in program evaluation, and the relevance of program evaluation to educational practice. In central southern New York state, seven public and six nonpublic schools are collaborators in the Goals 2000 professional development initiative studied. Although evaluation data came from many sources, the primary method of data collection, and the focus of this study, was a process known as a "Collaborative Review of Student Work" (CRSW). CRSW is a process that brings peer coaches and coached teachers together to examine samples of student work carefully, giving teachers a forum to examine the connection between their practice and student performance. Evaluation shows the CRSW to be an evaluation tool that makes contributions to educational research and program evaluation along the four dimensions identified. Some technical considerations in using CRSW are outlined. (Contains 5 figures and 15 references.) (SLD)
Facing the Emperor:
Student Work as a Tool for the Evaluation of a
Goals 2000 Professional Development Initiative

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INTRODUCTION

Attempts to evaluate Goals 2000 initiatives in New York State have fallen victim to criticism from two opposing camps. In one camp are the educational reformers who call for program evaluation that moves beyond traditional evaluation models--pre/post test scores or participants as information givers--to create forums for evaluation that support teachers as intellectuals. In this model of evaluation, teachers are creating habits of inquiry, carrying on structured dialogue that creates new knowledge about pedagogy and policy.  

On the other side of the debate are those reformers who argue that happy, involved teachers who know how to think are not necessarily indicators of school improvement. They suggest that claiming success when there has been no demonstration of improved student achievement is like ignoring the fact that the emperor has no clothes. These advocates of a more conventional evaluation model suggest that evaluation of educational initiatives must focus on the “bottom line”--student achievement. In this evaluation model, success in change initiatives can only be claimed when objective, valid, and quantifiable data reveal improved student achievement.

This ideological divergence raises an opportunity for evaluators and researchers. Is there a middle ground that utilizes the best thinking of both ideological camps? How can evaluators of school change initiatives support the development of habits of inquiry and at the same time use meaningful student performance data? This paper presents an educational research design that places student work at the center of a participatory qualitative program evaluation. Specifically, the paper explores the evaluation of a Goals 2000 initiative along four domains: Focus on student work, innovation in the examination of student work, substantive involvement of teachers in program evaluation, and the relevance of program evaluation to educational practice.

BACKGROUND OF THE PROJECT

Since 1994, New York State has received federal funds as part of the Goals 2000: Educate America Act. The Act prompted the appropriation of federal funds to “support initiatives at the local level that build the capacity of schools/districts to enable all students to achieve the new State Learning Standards.”

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In central southern New York State, seven public and six nonpublic school districts are collaborators in a one year Goals 2000 Professional Development (PD) initiative designed to achieve three goals:

- Infuse literacy instruction (reading, writing, speaking, and listening) within and across the districts English language arts, math, science, and technology curriculum;
- Incorporate real-world, problem based learning into an integrated math, science, and technology curriculum; and
- Integrate the use of technology as an instructional tool into the English language arts, math, science, and technology curriculum.

Toward these ends, the initiative employs three professional development strategies: Professional training, teacher peer coaching, and electronic linkages to learning. Figure 1 outlines the scope and sequence of training activities.

The initiative was developed by a consortium of the participating schools and resource providers such as Board of Cooperative Educational Services (BOCES), the Economic Opportunity Council, the County Chamber of Commerce, institutions of higher education, and a number of community based organizations. The planning group, known as the Southern Tier Consortium, has stated several core beliefs and responsibilities that drive the project design. Among the stated beliefs which appear in the project plan:

- The purpose of staff development is to impact students learning in the classroom.
- All players (learners, districts, sponsors, consultants) must be willing to alter systemic barriers to quality learning
- All players must be held accountable for and feel a sense of ownership for success.

These core principles have influenced the design of both the PD initiative and the evaluation. Every attempt has been made to create an evaluation that responds to the stated values of the project planners.

THE PROBLEM

With the sun about to set on the Goals 2000: Educate America Act, proponents of the initiative are scrambling to offer defensible evidence of project success. Acting Deputy Secretary of Education Marshall S. Smith declared in a 1998 interview, "The measure of Goals 2000 is that we've got 47 or 48 states with standards. A lot of states are on the way toward aligned assessments. We've begun to move the field in a way that they are grappling with performance standards." The criticism endures that Goals 2000

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monies have been directed at initiatives that are unrelated or indirectly related to standards and assessment. There is, to date, scant evidence that Goals 2000 professional development initiatives have improved student performance or the manner in which students are assessed. It has been difficult, if not impossible, to isolate the impact of Goals 2000 initiatives on student performance.¹

Several difficulties have plagued Goals 2000 evaluation attempts. Given the complexity of the change initiatives, which occur in an already complex educational system, it has been extremely difficult to get 'clean' data—that is, credible data that demonstrates a traceable connection between the input (Goals 2000 professional development initiative) and the output (student performance). A sampling of the enduring troubles which have plagued attempts to evaluate initiatives are outlined in the section which follows.

1. The mismatch of measures: In attempts to show the impact of Goals 2000 initiatives on student learning, there has been a tendency to mismatch measures of student performance with claims that Goals 2000 is or is not effective. Most often, standardized test scores are publicly reported as evidence that a particular initiative has lead to (or caused) an increase in student test scores. In New York State, the PEP tests and Regents examination scores are watched carefully as indicators of student performance and a school's progress. When these scores drop, as they are likely to do at the beginning of a change initiative, education critics are quick to declare that a particular initiative (e.g.: the adoption of a new reading program) has caused the drop in scores.

In the case of Goals 2000 initiatives, standardized tests may be particularly unfit, for they measure overall performance in a particular subject by a selected grade level—the entire third grade, for example. In the following year, the scores of a new third grade cohort are reported. These tests are not designed to capture incremental change in student performance or change in teacher behavior. Nor do these measures give teachers any useful feedback on their practice. We are not suggesting that over an extended period of time it is unreasonable to suggest that school-wide test scores should increase, but it’s misleading, if not unethical, to claim that changes in a particular test score are related to an isolated Goals 2000 project.

2. Tangled Variables: As Goals 2000 initiatives are carried out in schools, any number of changes are occurring in parallel. In the schools in this study, there are changes in staff, fluctuations in student enrollment, programmatic changes and the like which will occur throughout the year of the project. The fallout of any one project, initiative, or systemic change that occurs throughout a school year resembles an M.C. Escher drawing, where it's impossible to see the end of one element, the beginning of the next, or the relationship between the elements. This makes claims of correlation particularly difficult. How can we claim that changes in overall student performance are correlated with a particular new initiative? How can we isolate, or hold constant,

particular variables to demonstrate a correlation between student performance and a certain initiative?

3. A protection of professional precepts. Teachers are necessarily skeptical of "opportunities" for involvement in evaluation projects which turn them into arbiters of each others’ practice. In a 1995 study, Joyce and Showers found that "When teachers try to give one another feedback, collaborative activity tends to disintegrate. Peer coaches [tend to] slip into "supervisory, evaluative comments." This is not the intent of peer coaching, and teachers are quick to identify inappropriate uses of the coaching process. Even in the short period that the previously described New York initiative has been underway, we have observed a careful and cautious attention to the use of evaluation tools. The participants have asked challenging and justifiable questions about how data will be used and have resisted any evaluation method which could potentially place teachers in the position of evaluating each other. It is possible that the fear of 'coaching turned into evaluation' inhibits teachers' ability to give candid insights about their own or others' work.

4. Vague language: Grant proposals, sometimes written by paid grant writers who may not understand educational jargon, are full of provocative language included to catch the eye of funders. Thus, proposals are submitted which promise to do everything except leap tall buildings in a single bound. Stated objectives tend to be long on captivating language and short on observable, measurable goals. Are Goals 2000 local initiatives doing what they proposed to do when they responded to the State’s RFP? It's difficult to know, when trying to measure slippery concepts such as "the infusion of English language arts," or the "integration of technology..." or "capacity building at the district level."

EVALUATION DESIGN

The evaluation described in this paper was designed to respond to the stated beliefs of the consortium and to the aforementioned difficulties associated with evaluation. Figure 2 offers a graphic representation of the overall evaluation design. Data are drawn from peer coaches’ classroom observations of coached teachers, periodic focus group meetings with the peer coaches, and reflective writing by the teachers themselves. For the purpose of this paper, however, we will focus on a primary method of data collection, a process known as a “Collaborative Review of Student Work (CRSW).”

The Collaborative Review of Student Work is a process that brings peer coaches and coached teachers together to carefully examine samples of student work. The work is brought to the conference by one or more of the participating teachers. The goal of the CRSW conference is to provide a forum for teachers to examine the connection between

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their practice and student performance, and to encourage a critical and comprehensive look at student work.

The Collaborative Review of Student Work (CRSW)

The Collaborative Review of Student Work takes as its framework the design of the Collaborative Assessment Conference, developed in 1988 by Steven Seidel and others at Harvard’s Project Zero. The Collaborative Assessment Conference lasts between 45 minutes and an hour, and it is designed to encourage educators to look at student work, describe student work, and listen to others describe student work—all to promote “wondering,” or thinking deeply, about the work. Figure 3 offers a graphic presentation of this interaction. The Collaborative Assessment Conference includes the following basic steps.

1. Getting started;
2. Describing the work;
3. Raising questions;
4. Speculating about what the student is working on;
5. The “presenting teacher” speaks;
6. Implications for teaching and learning; and
7. Final reflections.7

First, the conference gets started by selecting a facilitator and handing out the student work to be discussed. The presenting teacher does not offer any comments about the work or the assignment. Then the group describes any aspect of the work they notice, without making judgments about quality. Following the descriptive phase, the presenting teacher takes notes while the group asks questions about the student, the assignment, the curriculum, etc., but does not respond to the questions at this time. The group then speculates about what the student is working on—such as how the student was trying to complete the assignment, skills the student might be trying to master, or ideas she or he was trying to express. At the end of this “guessing period,” the presenting teacher responds to the earlier questions, and adds her perspective on each of the previous phases of the conference. At this point, everyone is invited to share ideas about the implications of the examination of work far for teaching and learning. Finally, participants have a chance to reflect on the process of their own thoughts throughout the conference.

There are five basic principles that underlie the process. These same principles apply to the Collaborative Review of Student Work:

1. Start by looking at the work knowing little or nothing about the context in which the work was produced.
2. Describe the piece, keeping in mind that no observation is too obvious. Withhold judgments as much as possible.
3. Most students approach their work with purpose and intent even if it is not immediately apparent.

4. When speculating about what the student was trying to accomplish, be ready to cite examples from the work. Keep coming back to the work.
5. Don’t worry if you come away with more questions than answers.\(^8\)

The process for Collaborative Review of Student Work (CRSW) draws heavily upon the steps of the Collaborative Assessment Conference and these five principles. The CRSW conference is specific in regard to the roles of conference participants, the nature of student work, and the process of the conference itself.

**Roles**
The peer coach will serve as facilitator to keep reviewers focused on the student work and monitor time. The facilitator must also protect presenters from evaluative/judgmental statements by reframing or redirecting inappropriate comments or questions from reviewers and seek and support thoughtful discussion.

One or two presenting teachers will bring a piece of student work to the conference. This may be written work, project work, and audio- or videotape—any medium is appropriate as long as each CRSW participant is able to easily see or hear the work. The student work should be anonymous, current, and free of teacher comments or grades. Four to six reviewer/participants offer insights and raise questions about the student work.

**Process**
Getting Started (10 minutes): All participants introduce themselves, and the facilitator offers an overview of the CRSW process. This overview is particularly important when participants are not familiar with the process. The presenting teacher distributes work or displays it where all participants can see or hear it, but the teacher does not comment on the work. Participants observe the work and write down notes or questions for their own use.

Descriptive Phase (15 minutes): Participants describe what they see in the work as non-judgmentally as possible. The following questions are offered by the facilitator to guide the discussion:

- What do you see in this student’s work that is surprising or interesting?
- What do you learn about how this student thinks and learns?
- What skills do you see exhibited in this work? Extension: Which literacy skills or standards-based skills do you find in this work?
- What tools did the student use to organize the work (e.g.: technology, graphics)
- What were the apparent intended outcomes of this student work?

Question phase (15 minutes): Participants ask questions of the presenting teacher. These can be as simple as clarifying questions about grade level/content area, or they may be more complex questions about the link between what was done in the classroom and what is being presented. The facilitator may choose to guide the question phase by asking “What questions about teaching and assessment does looking at this student’s work raise for you?” or “What questions would you like to pursue further?”

Presenting teacher responds (10 minutes): The presenting teacher responds to questions raised by participants, talks about the intended outcomes, and the assignment in relation to what has actually been produced. The teacher may make connections between practice and outcome. Finally, the presenting teacher reflects on his or her own learning as a result of the collaborative review.

Debrief stage (10 minutes): All participate, with the facilitator guiding the discussion. The main questions for debriefing include “What did you learn from listening to your colleagues that was interesting or surprising?” and “Are there ideas or strategies that you would like to try in your own classroom?” Figure 4 depicts the protocol for facilitators.

Upon completion of the CRSW, peer coaches are asked to complete a post-CRSW conference observation. The form used by peer coaches is presented in Figure 5. Upon completion of each round of Collaborative Reviews, the evaluation team meets with peer coaches for a focus group discussion which examines the process itself.

SIGNIFICANCE OF THE DESIGN

We believe that the Collaborative Review of Student Work as an evaluation tool makes contributions to educational research and program evaluation along four dimensions.

1. **Focus on Student Work.** Students, and in particular students’ work, have historically been left out of Goals 2000 program evaluations. In the design described here, the focus of the evaluation is clear: We want to know what students are doing in the classroom specific to the goals of the project. From the CRSW conference, we hope to help teachers understand how their own practice influences student performance. It is, however, what teachers are seeing in the student work that drives any discussion of practice.

2. **Innovation in the examination of student work.** The Collaborative Review of Student Work conference is grounded in the work of Harvard’s Project Zero. Influenced by Howard Gardner’s with the Prospect School in Vermont, Project Zero has developed, tested, and revised an approach to collaborative assessment which brings teachers together to examine the impact of their practice on the student learning and outcomes. Under the direction of Steve Seidel and others, Project Zero has developed a model that helps teachers analyze student work, to promote change in their classroom practice, and to answer the question “What are we doing (or what do we need to do) here to get student
work to a higher level?" Project Zero's significant contribution is grounded in a research base that is giving teachers better clues as to how to move students to higher levels of learning. The process has received acclaim as a professional development tool "centered on discussions of standards and student work..." and that helps teachers in low performing districts "move kids off the bottom." The Project Zero model, and others like it, have not yet been utilized as a component of a program evaluation in schools. Our adaptation of the model may serve as a pilot test of the model's utility and adequacy as an evaluation tool for program evaluation.

3. Substantive involvement of teachers in program evaluation. Drawing from the work of Guba and Lincoln (1989), Patton (1990) and others, the design is committed to the involvement of the stakeholders at every stage of the evaluation process. A body of research on participatory evaluation suggests that the meaningful involvement of educational personnel in all stages of the evaluation process will increase the likelihood that teachers will use the evaluation results—taking new action and adapting their actions based on the findings from the evaluation.

Teachers in this project have been involved in every stage of the evaluation. In the preparatory stages, teachers and peer coaches worked with the evaluation team to develop observable indicators of progress toward the project's goals: Infusing Literacy, incorporating real world, problem-based learning, and integrating technology. Working in groups, teachers answered the question "what would it look like if this goal were achieved in terms of student work, teacher instruction, and/or classroom activity? These indicators have become lenses through which evaluators view data collected during CRSW conferences.

Perhaps the greatest value for teachers undertaking collaborative reviews of student work is that they are using a tool that is both central to the program evaluation and ideally useful in their practice beyond this project. Evidence of the utility of this process for teachers can be found in reflective writing gathered at the conclusion of the first round of collaborative conferences (November, 1998):

"In this peer review session, myself and a few other teachers sat down and looked at two pieces of writing...I learned from the session how to look at a student's work more objectively. The session served as a training in which we really analyzed a work, but did not place judgments on the work. I gathered from my colleagues many ideas to try in my own classroom."

"It is interesting to hear other people's thoughts on something that I am close to and may not have been able to see."

"There are many implications for teaching and learning in this process. It was interesting to see the different perspectives of other teachers...they had insights that I did not have."

"I learned that although we are unique in terms of the discipline that we teach, we have many commonalities, and that in order to be effective educators we must listen to and learn from our colleagues."

Data from teachers in this project are not limited to survey responses or interview data. Teachers are looking at the work of their students and making connections to their practice.

4. Relevance of program evaluation to educational practice. In A New Vision for Professional Development, Sparks and Hirsch (1997) call for professional development for educators that is linked to a larger vision for school change. Based on an organizational change perspective, Sparks and Hirsch argue that teachers must see connections between their professional development and their every day practice. In addition, they need to be involved in carving out a long term agenda for change that is based on a model of continuous professional improvement. The model described in this paper leads teachers through a series of ongoing, reflective conferences in which they closely examine student work and identify areas for change in their school and their practice. The model promotes evaluation in support of institutional change.

TECHNICAL CONSIDERATIONS

The use of CRSW as an evaluation tool in a large, multi-district project presented a number of technical considerations for the evaluation of the Goals 2000 initiative.

Role of peer coaches Perhaps first and foremost, the training and utilization of peer coaches as the primary gatherers of data for the project presents a significant concern. The peer coaches in this project were not trained in evaluation methods, nor were they trained in the CRSW protocol prior to the start of the initiative. In fact, none of the peer coaches were familiar with Harvard’s Collaborative Assessment Conference prior to the start of the evaluation project, so the primary data collection method required rapid training of peer coaches.

In addition to providing several brief articles describing the work of Seidel and others at Harvard’s Project Zero, a structured session was offered, during which the project evaluators described the process, then lead peer coaches through a role play of the process (using student work “donated” by two peer coaches). Peer coaches practiced their roles as facilitators and became familiar with the roles they would ask teachers to play as presenting teachers and participants. The focus of the session was on familiarizing peer coaches with the protocol, and sensitizing them to the possibility that the discussion could evolve from a focus on student work to an “advice session” or even less appropriate for the evaluation, an evaluation of the presenting teacher’s skills.

Unfortunately, not all of the peer coaches were present for the training session.

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As a result, it is difficult to assess the degree of familiarity with the process and the attendant protocol among those peer coaches who were trained by their colleagues rather than by the evaluation team. Just as information disseminated time and again is subject to distortion, there is a concern that not all peer coaches were adequately trained to conduct CRSW conferences in a consistent manner.

In addition, there is evidence from evaluator observation of CRSW conferences that some individualization of the process has occurred even among those peer coaches who were initially trained in the process. As a result, the CRSW conferences vary as a result of unequal training and as a result of peer coach individualization, either as a result of the peer coach’s interpersonal style or as an outgrowth of a need or desire expressed by participants. For example, one peer coach truncated the crucial final step of the process in two CRSW conferences because teachers could not stay long enough to complete the entire process (observation, March 1999). Although the teachers participating in the conference seemed receptive to the idea of meeting to see what was happening in other classrooms, they did not get the advantage of reflecting on the questions raised, nor did they reflect on the process itself. As a result, their experience of CRSW was more similar to “show and tell” than to the ideas present in the Collaborative Assessment Conference on which the CRSW process is based. Clearly, this presents a technical concern with regard to the use of CRSW as an evaluation tool.

Teacher hesitation/buy-in A second serious technical consideration is the degree to which teachers are willing to “buy in” to the idea of CRSW, especially as part of a formal evaluation. Even among teachers who are willing to consider participating in CRSW, the limited time available for such “extras” during the school day, and even afterward, presents a concern. Peer coaches find it hard to schedule an hour-long CRSW conference. As one peer coach put it, “It is difficult for me to sell ‘reflecting on student work’ to teachers with a 25-minute prep period during the day. Their after-school time is essential for planning and prep” (Focus group, November, 1998). Clearly, time constraints present a challenge for the use of this process in engaging teachers in evaluation.

The nature of discussion Using CRSW as an evaluation tool relies heavily on capturing the nature of discussions from which the members of the evaluation team are routinely absent. How well participants are able to recreate important aspects of the actual CRSW discussions is a concern for the evaluation process. A number of protocols are designed to ensure that crucial information reaches the evaluators including the post conference observation form found in Appendix 5 and the teachers’ reflective writing which follows the CRSW. The possibility that important data is not captured exists, however. One peer coach noted, “Collaborative review—if the purpose is to capture our conversation, how might I better do so? Most of the good stuff didn’t make it to paper” (Focus group, November, 1998). The degree to which participants are able to furnish adequate information about the CRSW process has a direct impact on the utility of the process as an evaluation tool.
District commitment. Finally, given the evaluation design, it is vital to consider the level of commitment on the part of districts participating in the evaluation. Sufficient time for peer coaches to facilitate CRSW, and for teachers to participate are needed. Some peer coaches are stretched to the point of breaking. As the harried peer coach explains, "A constraint: being in two districts/six buildings.... I fear for my credibility because I can't always follow through" (Focus group, November 1998). One district provided only ten weeks' classroom leave for teachers functioning as peer coaches. The Goals 2000 project was implemented in such a truncated manner in this school that the CRSW process was virtually useless. A peer coach from this district notes, "[The] ten-week plan has limited my ability to gather teachers to focus on student work. I would need a better district 'buy-in' which might afford some 30 minute release time events for classroom teachers." (Focus group, November, 1998).

STRENGTHS AND WEAKNESSES OF THE CRSW PROCESS AS AN EVALUATION TOOL

Despite the technical considerations that suggest that getting even one CRSW off the ground would be tantamount to a miracle, to date, approximately 20 CRSW conferences have been conducted. The data supplied by the participants, and by evaluator observations of conferences suggests that there are strengths and weaknesses involved in using CRSW as an evaluation tool.

Focus on student work. A clear strength of the CRSW process lies in its ability to focus the attention of coached teachers, peer coaches, and evaluators on the bottom line: student work. A comment from the first round of teacher reflections (November 1998) indicates the focus on student work:

"Assessing a piece together with my team was helpful in that I became acquainted with the expectations and reaction of teachers working at my grade level. We talked about what was good, what needed improvement, and what reflected student thinking. We also talked about how the presentation with the assignment could've affected the quality of the piece."

A potential weakness in the process involves the question of which student work comes to the conference table. While CRSW is designed to encourage teachers to bring a broad range of student work—from the superlative to the problematic—to the conference table, it is difficult to discern whether the work being discussed is an accurate representation of the range of student work being done in the classroom. It is possible that teachers in the early stages of the evaluation may be most comfortable offering high-quality exemplars of student work. For example, in a recent CRSW observation (March 1999), the presenting teacher stressed the fact that the student work presented received all the points possible for the project (500 points). It is easy to understand why teachers might select shining examples to share with their colleagues, particularly given limited familiarity with the CRSW process and the linkage of the conferences to "evaluation." On the other hand, teachers may view the CRSW process as an opportunity to bring "problem work" in the hope of gleaning worthwhile suggestions. The problem for evaluation, however, is that the types of work presented strongly influence the findings of
the evaluation process: If the student work actually reaching the conference table does not reflect the range of work being done, the evaluation potentially misses the opportunity to identify strengths and weaknesses of the initiative.

An additional weakness arises from the fact that the CRSW process in each school has not been limited to an examination of one presenting teacher or student over the course of the evaluation. Although inviting a different teacher to present work at each of the three data collection points encourages participation, it eliminates the possibility of making longitudinal comparisons of the work assigned.

Innovation in examining student work In addition to placing the focus squarely on student work, the CRSW process also facilitates innovation in thinking about student work. One particular strength of this innovation is cross-curricular examination of work. CRSW participants note the interdisciplinary advantage, not just for themselves, but for their students:

"In twenty years of teaching, this is the first time I've had the opportunity to share my kids' work with teachers outside my classroom. I'm the only psychology teacher, so where was the opportunity to look collaboratively at what my students are able to do? Now there are people who teach English giving feedback on whether [students] are writing well in my class."

"I found this activity and discussion fascinating—all of the different subjects could be pulled in to strengthen the whole activity, focusing on student learning."

"I found this interesting because I was able to hear how other teachers from different subject areas examined the student's work. We all came up with a way to use the assignment in our classrooms. ...After our discussion, it was clear that as a teacher if we all work together as a team with more projects that include all the courses, the student will benefit the most."

The interdisciplinary nature of CRSW can present potential for resistance, insofar as all teachers are not equally competent or comfortable in all subject areas. This seems to be the case with the goal of infusing literacy, for example. In a CRSW observed by an evaluator, a science teacher protested that she was so unfamiliar with a student paper of the sort being considered that she could not even read it. The work being discussed was a story written by a student with serious deficits in the mechanics of writing, such as punctuation, capitalization, and spelling. From the science teacher's perspective, analysis of this work was clearly out of her province. In a teacher reflection written at the conclusion of another CRSW, the peer coach reported that a math teacher "didn't feel knowledgeable enough about grammar to grade for it in math class." The peer coach suggested that "quality writing seemed important to all teachers, but they were a little shaky on grading for it or expecting it in their classes." This suggests that as an evaluation tool, the CRSW hasn't lead to a full recognition of the range of student performance, as participating teachers tend to self-censor their comments based on their perceived competencies.
Teacher involvement in evaluation  There is evidence that the CRSW process directly involves teachers in the evaluation process. CRSW underscores the goals of the Goals 2000 initiative, and reinforces teachers' awareness of those goals and their ability to contribute data toward evaluation. Teachers in each school have been involved in CRSW conferences, which provide a critical source of data for the Goals 2000 evaluation. These teachers are most aware of the potential for success or failure of the project being evaluated, and the CRSW provides a gauge for attainment of project goals. As an evaluation tool, the CRSW seems to provide data that is both generated and utilized by those closest to the initiative.

A weakness, however, arises when we examine the number of teachers involved. Because of the time constraints on the average classroom teacher, it can be difficult to schedule CRSW conferences for more than five or six participants. As a result, a large population of teachers do not participate in CRSW, and are still largely uninvolved in the evaluation process. While CRSW does encourage useful participation on the part of teachers who are willing and able to devote an hour to the process, the voluntary CRSW model offers no advantage over non-participatory designs for those teachers who elect not to participate.

Relevance to educational practice  The fact that some teachers have participated in more than one CRSW, which are usually scheduled during teachers' limited free time suggests that teachers find the process relevant to their educational practice. Teacher feedback from the CRSW process suggests that teachers have developed questions—if not answers—regarding practice oriented issues:

"In listening to discussions about this [work], I have realized how difficult it is to adapt a test to higher level thinking skills...I learned that intended student outcomes must be clear before you can develop an assessment."

"When I do this activity again, I would talk to the English teacher about what activities I could do with the students to help them assess their writing. I would talk to the science teacher about using more descriptive words."

"I learned I would rather like to incorporate more model and guided practice work into my own teaching. I discovered I tend to focus in on one topic and process rather than specifics of writing."

"I picked up a few new ideas and some things from different viewpoints than I had before this discussion began. I will be rewriting assignments to include the variety of means for students to demonstrate knowledge. I will consider changing the way I handle spelling errors on students' work."

The primary weakness of the process in terms of its relevance to educational practice is the possibility that peer coaches and CRSW participants may fail to make the vital link between the questions raised during the conference and their applicability to actual practice in other classrooms, or with other students. One example of this surfaced
during a recent conference (3/99) when a presenting teacher reported, “I tell my students that these are science reports. They’re supposed to be dry and boring. The students want to write like they do in English class.” The teacher went on to say, “There is some integration here, but I couldn’t really link this to the English standards.” The teacher failed to make an explicit connection between his assignment and one of the NYS English Language Arts Standards, which expects students to “...write to acquire and transmit information.” The presenting teacher clearly viewed his work as limited to science. This illustrates a limitation of the tool—if teachers don’t have an “a-ha” moment during the conference, nothing in the process provides for an ‘intervention’ that directly connects teacher reflection to classroom practice.

QUESTIONS FOR FURTHER RESEARCH

Significant questions remain to be answered regarding the role of CRSW in facilitating a new model of evaluation. Issues of focus, participation and inclusion, and systemic barriers all present opportunities for further research.

While the focus of CRSW is ostensibly student work, questions arise as the result of the intimate connections between teaching and learning. At times it is unclear whether the process can evaluate student work without also commenting—at least obliquely—on teacher practice. As one teacher noted in the teacher reflections, “I feel that having my student’s work made public makes me feel more self-conscious about my own teaching abilities. It is almost a reflection of me and my abilities as an effective teacher” (November, 1998). Given the hesitance of many teachers to review other teachers’ practice, this may limit the degree to which different or disparate ideas are likely to result from a CRSW conference. This perception may also stifle the ability of CRSW participants to disagree about the work being discussed, encouraging them to focus only on positive aspects to avoid the appearance of criticizing a colleague. Further research is needed to determine if this is a common perception, and if so, the implications for the use of CRSW as an evaluation tool.

One of the most severe limitations of the process is related to sampling: if only the most engaged teachers participate, and they tend to bring work that is not representative of a wide range of student performance, how can CRSW provide a realistic evaluation of the impact of staff development on student work in general? Further research is necessary to identify ways to increase both numbers and diversity of CRSW participants and student work that is being discussed if CRSW is to contribute meaningfully to educational evaluation.

Finally, further research must examine the systemic barriers to the utilization of CRSW or other interdisciplinary methods of evaluation. In the focus group discussion, peer coaches reflected the resistance present in many systems:

“I know what I wish is that we would have a different structure in school...where we could teach interdisciplinary units rather than having a fragmented, incomplete team concept.”
"We have the so-called four subjects as a team, but every teacher still plans individually."

As long as schools as institutions fail to offer the necessary flexibility and resources for teachers to examine and evaluate their own work via CRSW or other methods, and then empower teachers to implement the ideas and concepts they gain from these processes, the emperor is very likely to remain underdressed.
<table>
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<tr>
<th>Professional Development Strategy</th>
<th>Content/nature of the work</th>
<th>Participants</th>
<th>Timeline</th>
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<td></td>
<td>2. Infusing literacy skills across the curriculum</td>
<td>2. a. peer coaches, b. coached teachers, school administrators, higher ed. professionals</td>
<td>2. a. Summer 1998, b. Fall 1998</td>
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<td><strong>TEACHER PEER COACHES (N=19)</strong></td>
<td>provide direct services –training, support, and guidance to ten to twenty teachers in the first year of the project.</td>
<td>Coaches selected by consortium members. Recognized for their expertise and proven teaching ability</td>
<td>Coaches are on full time release for the first school year of the project.</td>
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<tr>
<td><strong>ELECTRONIC LINKAGE TO LEARNING</strong></td>
<td>Share best practices, curriculum units, and teaching strategies through the local and wide area network’s email system and internet.</td>
<td>Teachers, administrators, community agency professionals, higher education professionals, business persons, and parents</td>
<td>Ongoing. BOCES will orchestrate web page, bulletin board, and listserv</td>
</tr>
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</table>
FIGURE 2: EVALUATION DESIGN

EVALUATION TASKFORCE
Identify Indicators

EVALUATION TASKFORCE
Check in: Are we getting the data we thought we'd get?

EVALUATION TASKFORCE
Final Reflection on Data

PEER COACHES

Collaborative Review of Student Work*

COACHED TEACHERS

Reflective Writing*

EARLY FALL

PEER COACHES

Collaborative Review of Student Work*

COACHED TEACHERS

Reflective Writing*

MID-YEAR

PEER COACHES

Collaborative Review of Student Work*

COACHED TEACHERS

Reflective Writing*

JUNE

*Cornell evaluation team will develop and teach protocol
FIGURE 3: EFFECT OF COLLABORATIVE REVIEW

FIGURE 4: FACILITATOR’S PROTOCOL

The Collaborative Review of Student Work (CRSW) Conference
Protocol for Facilitators

**Goals** of the CRSW conference:

- provide a forum for teachers to examine the connection between their practice and student performance.
- encourage a critical and comprehensive look at student work.

**Roles**

The Facilitator (1):

- keeps the reviewers focused on student work
- monitors time and adjusts time as needed
- protects presenters by reframing or redirecting inappropriate comments or questions from reviewers
- seeks and supports thoughtful discussion

One or Two Presenting Teacher(s)

- bring a piece of student work to the conference. This may be written work, project work, an audio or videotape—any medium is appropriate.
- Work should be anonymous, current, and free of any comments or grades.

Four to six reviewer/participants:

- offer insights and raise questions, guided by the protocol

**Process**

10’: GETTING STARTED

- Everyone introduces themselves
- Facilitator reviews the process
- Presenting teacher distributes student work or displays it so all can see it. Teacher doesn’t offer any information about the work.
- Participants observe the work and write down notes or questions for their own use.
15': ANALYSIS PHASE

Participants describe what they see in the student work.

Focus Questions:

What evidence of standards-based work can be found in this student product? or
How does this student's work indicate performance toward the NYS learning standards?

Sub-questions to guide the discussion:

Which reading, writing, listening, and/or speaking skills do see exhibited in this work?:

What evidence of real-world, problem-based learning do you find in this work?
What evidence of technology skills or technology as an instructional tool is evident in this work?
What were the apparent intended outcomes of this student assignment/project/presentation?

05': CLARIFYING QUESTION PHASE

Participants ask questions for clarification of the presenting teacher. These can questions about grade level/content area, or they may be more complex questions about the link between what was done in the classroom and what is being presented.

15': PRESENTING TEACHER RESPONDS

Presenting teacher answers questions raised by participants, talks about the intended outcomes, the assignment, in relation to what has actually been produced.

Focus Question:
What particular classroom practices or instructional methods have influenced the outcome of this student work?

Makes connections between practice and outcome. Reflects on own learning as a result of the collaborative review.
10': SUMMARY AND DEBRIEF

All participate, facilitator guides the discussion

Focus Questions:

What questions about teaching and assessment does looking at this student’s work raise for you?

What questions would you like to pursue further?

15': REFLECTIVE WRITING

Teachers reflect individually, in writing.

Focus Questions:

What did you learn from listening to your colleagues that was interesting or surprising?

Which, if any, ideas or strategies would you like to try in your own classroom?
Peer Coach Name: ________________________________________________

District/school participating in the CRSW conference _________________________

Number of teachers participating: ________________________

Date of Conference: _______________________

Type of student work being discussed: (eg: 7th grade math assignment, 2nd grade SST essay) _________________________

1. Describe any connections between teacher practice and student outcome that surfaced during the CRSW (eg: giving directions, using scoring rubrics, involving parents, adapting to learning styles)

2. What specific examples of the indicators (identified August 06 by consortium participants) did you observe or hear about in the CRSW conference? (e.g.: Student defended answers by explaining the math problem in words. Or ‘Students used computer to create a web page about their hamster project.’)

3. Were there any recurring topical themes that surfaced throughout the CRSW? If so, please elaborate.

CONTINUED...
4. As we discussed at the November 98 peer coaches meeting, you may find it necessary or desirable to make changes to the protocol. To help us improve the process, would you please note any modifications that you made to the CRSW? (for example, if you changed the language in one of the prompts, please tell us the language that you used)

5. Additional comments or observations:

If the presenting teacher gives his/her permission, please attach a sample of the anonymous student work discussed at this conference.

PLEASE RETURN THIS FORM by MAIL, EMAIL, or FAX NOT LATER THAN WEDNESDAY, MARCH 31, 1999. THANK YOU
Ann Martin (awm1@cornell.edu), Chari Fuerstenau (clf6@cornell.edu),
Diana Straut (dmstraut@sued.syr.edu)
Programs for Employment and Workplace Systems/NYSSILR
Cornell University/Ithaca, NY 14853. Fax: (607) 255-0574
References:


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<th>Facing the Emperor: Student Work as a Tool for the Evaluation of a Goals 2000 Professional Development Initiative</th>
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<tbody>
<tr>
<td>Author(s):</td>
<td>DIANA STRAUT, CHARI FVERSTENAU, ANN MARTIN</td>
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