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ABSTRACT
        This exploration of evaluation strategies for
systemic educational reform considers whether there is a way to
design an assessment and delivery system that can accomplish the
goals of the total educational process. A basic question that must be
addressed in systemic reform is the role of education in the
socialization processes of society. Beyond the common desire to
produce an informed and educated citizenry, goals become less clear.
Some goals and conflicts are considered in the context of the
community college. The American Association of Community Colleges has
identified a core of 13 indicators that can be used to assess college
effectiveness. Evaluating college effectiveness from the perspectives
of students and faculty may result in a move toward the pragmatic and
a shift in systemic evaluation to value social as well as academic
priorities. Systemic reform in this instance might require asking how
discipline-specific knowledge fits in with the larger view of
education's role in the development of the whole. The paper takes the
position that a delivery system should be created that emphasizes
what people should be able to do when they are finished with what the
system provides. Before this can be accomplished, it will be
necessary to understand what education should be and its desired
outcomes. Reform must be more than polishing the brass on a ship that
is sinking. (Contains seven references.) (SLD)

Assessment and Educational Reform:

Doing More Than Polishing Brass on the Titanic,

a Call for Discussion

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Mt. Hood Community College

Paper presented January 5, 1996

Evaluation Strategies Working Group

National Institute for Science Education

Wisconsin Center for Education Research

Assessment and Education Reform:

Doing More Than Polishing Brass on the Titanic,

a Call for Discussion

When Norman asked me if I was interested in participating in this conference to address evaluation strategies for systemic reform, I was intrigued by the opportunity. Initially the subject for the conference seemed straight forward--what questions should we as institutional representatives ask in order to provide insight and guidance to the process of instructional evaluation and systemic reform. My involvement in the educational process, apart from an occasional repass at the university, has been working

in community colleges. I therefore felt that I could provide an alternative perspective, particularly in how systemic reform is affecting the community college and visa versa.

Certainly this is not a new question. As educators we deal with assessment and outcome evaluation each time we enter the classroom or develop a means for measuring students' grasp of class content. Administratively we address effectiveness at each advisory committee meeting and throughout the year in the process of program review and strategic planning. An "Evaluation Strategies Working Group"--I found myself rolling the terms around and around in my head, trying to crystallize what the desired outcomes might be from such a group. The objective was basically clear--to formulate questions that can be posited to the group, which would help initiate discussion about assessment of systemic reform and outcome evaluation in education. However, I found that the more information I received from Norman about the NISE evaluation conference, and the more I discussed it with faculty and administration at Mt. Hood Community College, the more convoluted my thinking became.

The issues raised began to suggest the complicated nature of the problem we have chosen to explore. Given the diversity of institutions delivering the education in the K through Graduate School system--residential and commuter colleges, private and public sector, distance learning and e-mail colleges, is there a way to design an assessment and delivery system which accomplishes the overall goals of the total educational process? Can these disparate processes consummate in a product (graduate or participant) with such common qualities that it would be difficult to tell in which arrangement of delivery systems the individual participated? How do these various opportunities for learning and

socialization affect the students' ability to participate positively in some capacity? Given that academic competency is part of the total socialization process integral to the educational system, do each of these meet that need equally well?

The National Education Goals Panel charges education to make it possible that "by the year 2000, every adult American will be literate and possess the knowledge and skills necessary in a global economy and exercise the rights and responsibilities of citizenship." If a desired outcome of the system is to produce a functioning member of a cohesive society, then we need to create the systemic environment which ultimately leads to that result. The fabric of our society is becoming ever more loosely knit. We no longer need to communicate face to face, or even talk to each other, and people on the whole are becoming increasingly more paranoid and suspicious of their fellow man. Technology shifts continuously diminish the need or opportunity; to interact with each other. We commute in individual vehicles, receive money automatically deposited in our accounts, withdraw needed funds from a machine, and pay our bills by mail. A basic question that must be addressed in systemic reform of education is what is the role of education in the socialization processes of society.

Distance learning which enables students to avoid classrooms and all the rest of the social commitments and interactions necessary to participate in a classroom, may contribute to the atomization of our society. Is education actually contributing to the further decay of societal skills and the abilities of individuals to function in a larger part within society, or is the system really meeting these needs by embracing the technological shift. Phone registration, payment with credit card, classes via television,

communication through e-mail, diploma received by mail--are these exemplary models for our society? This is not meant to question the value of learning for its own sake, but rather to broach the issue of the role of the educational system in encouraging an ever more atomized society, unschooled in the human aspects of living and working together. When we talk about systemic reform we are addressing the idea of the vision of the world and how we would like it to be. If what we are trying to accomplish is to create a cohesive society comprised of literate and social individuals, the movement of education reformation will/must include an aspect of recognition of that obligation.

Most of the people with whom I spoke were comfortable with the idea that a major goal of the academic system in America is to produce literate citizens who possess the ability to synthesize information in a way that allows them to make informed decisions, regardless of whether or not that decision is in the context of family, daily living, work or politics. Further it seems to be accepted that the institution of education plays a role in the socialization processes of our citizens in the morays and values of our democratic society. Beyond this common denominator of a desire to produce an informed, educated citizenry, things become more vague. The question relating to what specifically is most important for graduates to obtain from the system, what skills are most consequential in our quest to achieve the goal of an educated citizenry, varies depending upon whom one asks. Consequently, I decided to examine the question from several perspectives each of which posits questions relating to the process of assessment and systemic reform. These perspectives include:

- the student and (science) faculty members,

- the community college's role in community and regional development, and

- systemic reform, the "umbrella" result(s)

Due to the interdisciplinary nature of the system being assessed and the multiple outcomes, none of the areas are freestanding. The internal cycle of assessment, system reform, assessment, is dynamic and takes place at each level as well as between levels, as one area makes change and the other areas respond and make adjustment. I have for purposes of this paper decided to address them in reverse order, going from the broadest theoretical realm to pragmatic application of the faculty and their assessment of how what they are doing in their individual classrooms affect achieving systemic reform. This is followed by a review and further discussion section, which revisits and expands upon the major points with an exploration of issues and processes of systemic reform.

Systemic Reform

How do outcomes connect to systemic reform? I recently discussed assessment and systemic reform with several faculty members. In our discussion they had difficulty not getting caught up in the chicken or the egg conundrum. Which do we do first--reform the process or reform the outcomes? It seems logical to formulate the outcomes and then move in on the process to achieve the desired results. The working hypothesis is that once you know what you want in the end, you can reform what is in place to provide the setting for the student to accomplish that goal. The assumption is that systems function most efficiently when goal are clear, support is comprehensive, and expectations are realistically high.

We need the vision to know where we are going, and what it is that we wish to achieve in order to attain our goals, or even recognize when we arrive. In words attributed to Yogi Berra, "you've got to be very careful if you don't know where you are going, because you may not get there." How do we know what we should be doing? Why it is important to accomplish a particular outcome? In order to answer these questions we must have a clear understanding of the "big picture" outcomes. As a national system, provisioning education to the masses, how do we know what we should be doing? What are the indicators which help us know if we are in fact being effective at what we believe we should be accomplishing?

What we measure, and how we measure changes for each region, district, educational domain (university, community college, K-12), and institution differs by who, or what agency or individual is assessing the effectiveness of the education system. Employers, merchants, policymakers and educators are evaluating the results of the educational process, but they are using different tools. It seems naive to assume that we would be able to assess how schools are doing with one set of methods or instruments. The subjects and desired results are as diverse as the institutions and communities they serve. If we wish to assess the effectiveness of the educational system to produce graduates capable of thinking critically, communicate clearly, do higher order thinking and problem solving. Do we have the tools, money or understanding necessary to measure what happens when you do systemic reform? We must be certain that the tools, and how they are applied, will reliably measure that which we wish to measure.

The Community College

The community college is an interesting mix between university focus on the disciplines, professional/technical education, and community education. This diversity of mission is typically reflected in the Mission Statement of the institutions. Mt. Hood Community College has such a statement and it pledges to fulfill (among others) the following commitments:

- provide access to technological education and training, a wide variety of transfer programs, developmental education and comprehensive community services.

- strive to help students discover their own potential, respect the uniqueness of others, and develop ethical values.

- provide enthusiastic and dedicated instruction to students of diverse cultural and economic backgrounds.

- collaborate with agencies, organizations and businesses to best serve students and the community and to be responsive to the realities and demands of a changing world.

- be a community of caring individuals who strive for excellence in all facets of college life.

The essence of the mission statement outlines in social terms how the institution provides service to the community through education. It also defines in general terms the environment in which this service is going to occur, "a community of caring individuals." In particular it describes the learning environment, a place with dedicated and enthusiastic instructors in the classrooms whose primary obligation is student achievement of personal goals. In the process we will provide a positive environment for

socialization to occur, and a system from which students will realize their own potential. What a positive and lofty role to fulfill in the community process.

Are we doing it? How do we know? How can we evaluate what we do? What is it exactly that we want to measure? Do we have reliable instruments to measure what we wish to know? The list of questions relating to assessment goes on and on. Many of the problems being explored parallel aspects of the processes of institutional effectiveness. There are external and internal evaluators which can be applied when examining the question of institutional effectiveness. The pressure for external indicators of effectiveness are driven by accountability concerns which are relatively external to the institution. How does the state know what the institutions are doing and how can the institution report on its effectiveness, thus proving itself more accountable. All kinds of effectiveness indicators can be proposed.

The American Association of Community Colleges identifies a core of thirteen indicators that make sense to the various public entities served by the community college. These apply primarily when used to assess effectiveness where the focus is on accountability issues, whether it is the Board, the State, or the Federal government. The concepts for consideration were not, by design, oriented to assess system effectiveness. The document identifies a select core group of indicators that address the issues, implicit and explicit, in the community college mission. The various indicators reflect the goals in the mission statements for nearly all community colleges; These include student progress, career preparation, transfer preparation, general education, customized education, and community development. In some areas indicators are tools for internal assessment, while

others focus outside the institution. Some indicators have direct application in the assessment of systemic reform as well as evaluation of community college effectiveness.

The Core Indicators of Effectiveness

1. Student Goal Attainment

2. Persistence (Fall to Fall)

3. Degree Completion Rates

4. Placement Rate in the Work Force

5. Employer Assessment of Students

6. Number and Rate of those Who Transfer

7. Performance After Transfer

8. Success in Subsequent, Related Coursework

9. Demonstration of Critical Literacy Skills

10. Demonstration of Citizenship Skills

11. Client Assessment of Programs and Services

12. Responsiveness to Community Needs

13. Participation Rate in Service Areas

Arguably any of these Core Indicators (CI) could be utilized in assessment of systemic reform. Part of the distinction lays in the level at which assessment occurs, and if the assessment is internally directed or external. CI number 6 and 7, exhibit this duality. Core Indicator 6 is an internal examination of transfer rates, while CI 7 is an external indicator of effectiveness as measured by how well the students do after they transfer. Core

Indicator 9 and 10 display a similar sense of internal/external. Nine, addresses critical literacy skills (communication, logic), 10 is external and speaks to social qualities instilled in the individual due to participation in the experience. Those measures whose focus is external to the college environment may have more direct application in the assessment of systemic reform.

The Students and the Faculty

One of the faculty to whom I spoke in preparation for this paper compared teaching at a major university and at a community college. "Community college is 'learning within the two minute warning. Our customers are different, motivated by necessity not academics." What should we be investigating, since we are not assessing academicians, and scholarship is not the issue. Rather we are assessing self-learning skills, lifelong learning skills (for when jobs become obsolete). Consequently mastering concepts/content is not as central to the process of assessment. Given background materials, a more relevant approach causes them to assemble and apply what is intrinsic to the concepts presented. Skills needed include the ability to organize facts, give relevant examples, demonstrate the ability to apply what is learned. Modeling the instructional application to the self-learning process allows development of self-learning skills rather than content. Relative to the consequences of community college to the student, the relevant outcome is strong self learning skills over the mastery of content.

The goal becomes one of developing a background in their discipline to aid in the integration of information in real world settings--common sense, reading the situation,

gauging, making appropriate decisions. The whole issue of students' capacity to integrate learned disciplines needs to be addressed in the teaching process, that is, concepts should not be learned or applied in isolation.

Anatomically we look at the shape of the arm, we integrate knowledge of physics to better comprehend how the muscles and bones work together. Learning does not just equal being familiar with material content, but the ability to manipulate and reapply information in the context of a different setting. Life is not a multiple choice test. The average community college student-- a thirty-two year old female, knows this. The comfort zone for many traditional college students is regurgitating material in terms of familiar concepts, but familiarity does not equal learning. As a result, assessment requires application of materials in context, it is important to go beyond familiarity, to probe understanding and connectivity.

What are the tools, how are they applied, and will they reliably measure that which we wish to measure? We have gross cut measurement tools--such as college placement tests, student retention, performance on teacher created class and laboratory exams, and standardized tests. Many of these traditional tools are weak, for example, the problems of measuring student retention is replete with problems. Standardized exams do not serve as valid measurements, because they are not holistic and can be prepared for specifically. Further they are by design objective, not free form where someone is put into a situation where there are no clues other than the problem in front of them, and they must determine the nature of the problem, assess the relevant aspects of the information, remove irrelevant stuff, create hypothesis, do corrective changes, and solve the problem,

adapt to the problem or somehow accommodate the conditions of the problem. We have no quick way to assess that ability, and even we, as science professionals, can not always recognize that which is or is not relevant to the solution of a problem. Academic and professional training reinforces comfort levels with tools that measure precisely, but sometimes what we are measuring may have little application in the assessment of how the system is functioning in its more global imperative. It is possible that what we in the sciences really should prepare our students to do, when they exit from our programs, will have little to do with the particular subject being taught. Subject matter will be evaluated by how well it meets educational demands as interpreted in the context of both academic and social applications.

Review and Further Discussions

> You've removed most of the roadblocks to success when you've learned the difference between motion and direction. (Bill Copeland)

What are the risks of moving education from the profound to the pragmatic? A shift in systemic evaluation to value social as well as academic priorities would not make implicit the need to abandon traditional subjects. Academic rigor plays an important function in the development of discipline specific knowledge. Systemic reform might encourage asking how discipline specific knowledge fits in with the larger vision of education's role in the development of the whole.

In the design or architecture of educational systems one needs to recognize the gap that exists between what is and what should be. It can be applied to a five minute

presentation, or can find application on an entire educational complex or system. Need analysis or needs assessment is the understanding of the disparity between what is and what should be. What seems to be lacking in the process of systemic reform examinations is the what should be. There have been a number of reports which have come out which look at what is, but it is the examination between what is and what should be that shows the gap. One can talk about the need being the shortfall between the two, and then look at the methods analysis and develop possible strategies to reduce that gap.

One area systemic reform needs to address is what is the source of the discontinuity. This gap between what is and what should be, is it because we don't like what we are doing? Where is the reform leading us, and what possible values can be derived by the institution, society and consumers of education? Clear vision is consummate, one needs to ask where we are headed in reformation. If you don't have that vision set in front, it is hard to talk about systemic reform, about where we should be. So the fundamental issue is do we agree on what the fundamental issues are, on the vision of what should be. Otherwise you do not get reform with purpose, but rather with agitation. You are just homogenizing things, stirring things around, making change for change sake. When we really ask why are we changing, we usually respond with, "Well, what we are doing currently is not working." This is a cyclic process-- I do not know the exact cycle but it seems to be about every twelve years or so. Often the reasons for the prescribed change are identical in essence to the reasons which lead to the change which brought us to the current situation. Somebody has to establish our vision of what should be, then we can set our "collective system sails" on course and move in that direction.

The seductive appeal of outcomes and competencies is a crystallizing of our perceptions of what students can perform when they are done. A performance outcome allows us to recognize the accomplishments of our applications, and on a higher level we may want the student to deduce what processes are occurring. So in science, rather than do a titration process, we may want to instill the understanding of what is the process for neutralizing hazardous materials, and how one can safely handle chemical materials. How you phrase your outcomes will ultimately determine the type of reform you want to put into the system. But the people positing the outcomes are in the midst of the system, so what are the chances that the proposed reforms will look much different from what we already have? How would chemistry look different in somebody's proposal for systemic change?

Who determines the outcomes, is it the market place, the consumer of education, or the teacher making a course outline? Who are the shareholders? What if proposed outcomes were negotiated by societal participants? Teachers should not be the ones engineering educational reform. It should be the society and all the shareholders. What if our primary outcome of the educational system was that graduates, when they left the institution, did not negatively impact society's social system? Or that successful graduates from the system were measured by societal interaction to be self-sufficient, self-supporting, able to interact with others in the free enterprise system, and cognizant of the role of the constitution in everyday life. Reform is accomplished when graduates are equipped with the skills necessary to get a job and make a positive contribution to American or World society. These are not terms which educators are typically

comfortable with using, and the processes for measuring this type of outcome are even more unfamiliar. But that is typically what parents say, what civic leaders say and what is often unwritten as a value indicator of an educated individual. How or where does this tie into education reform under the current paradigm of the educational system?

This is truly a different set of priorities than the traditional thought that an educated individual can read, write, do basic math or the like. So who are the shareholders of this different set which begs the question of who should be involved in the discussion about what are the appropriate outcome for education. Should it be scientist, or scientific leaders? Certainly they are shareholders, but who else needs to be included in the discussion? How do we in the process of systemic change allow for those voices to be heard, and be answered? Educational institutions have traditionally been one of the more difficult establishments in which to bring about change. This is possibly because of the self-perceived role of teachers in the process of what is or is not appropriate outcomes of their classroom and summarily the educational system. They may not wish to phrase it this way but, in essence, it is their perceived obligation/right to have control over the content and outcomes of the classes, what will be said or not said, what will be taught or emphasized within the parameters of the course outline. So who truly posits what the outcomes will be? Are we thinking radically enough, and are our thoughts far reaching?

If we are truly trying to move to a more holistic approach to the education of students, then why do we still divide into camps? Why do we still have disciplines such as science, or mathematics? These are traditional development areas. The difficulty is that

this image limits peoples willingness to cross discipline lines. You have to be in a science class to think about science, or physics or whatever. How do you ever get to the point where you can ask, what was it that you just did, and how does that apply in your life, outside of the class in which you are currently?

What if we shift the outcomes and how they are presented and measured. For example, let's use an entry level computer literacy course. Like most entry level courses, whether in computers, math, chemistry or what have you, one is typically going to be introduced to a new vocabulary. Framework concepts or schema are going to be developed upon which one can begin to hang information. This then leads to "cyber-anatomy" becoming the primary focus of the class, and most of the exercises are developed with this concept in mind. But what are the functional outcomes that a student--educated consumer/computer literate individual, needs? Suppose we change the outcome by trying to develop a relevant exercise to use the information to do certain things, such as access information off the Internet, do word-processing, learn new programs, exhibit operational skills. What the new outcome really desires is functioning consumers, able to buy their own computer system, to solve the problems that they deem appropriate for a computer. If they want to start their own business, keep the books, and use a computer, they will be able to select the software and the hardware necessary, and seek the appropriate training. The new outcome, is that they become good consumers. The over-riding outcome is that all the other stuff about vocabulary, which might have been traditionally the course outcomes, becomes tools to achieve the skill level of educated consumers. The vocabulary, an essential tool, is pertinent to reading the advertising,

ascertaining what kind of software they want, what it can or cannot do, and how it might be used in their lives--home, work or other environment.

Suddenly things are flipped. No longer is an outcome naming the five parts of a computer, and the ability to list and define vocabulary. Likewise, no longer can chemistry use traditional outcomes such as naming the inert elements or the ability to calculate moles, to measure appropriate grasp of the subject. Biologists can no longer measure achievement by the learned definition of a genus, Species, or gamete. Now the emphasis switches to application in context. The students from computer science recognizes that they are going to be doing a lot of typing; from anatomy they recognize the shape and function of the bones of the wrist and hand, neck or eyes. As a consumer they are going to be concerned about ergonomics, screen size or shape, health effects of computers. Quickly the emphasis and application of education transforms or is in essence, reformed. This then elucidates what the elements of systemic reform become as its participants change from teachers to consumers, and as desired outcomes metamorphose from micro to macro.

The emphasis is that it is what we want people to be able to do when they are done with what the system provides. What skills do we want them to take away from the experience? Critical to this issue is the delivery system which we are creating for various developmental areas of educational distance learning. How will we do virtual education through the Internet, and how will we measure our success? We are planning to use lecture-based and lab-based tools to measure an experience that we have not even experienced yet, and for many teachers, one which they never will experience. How do

we know that we are not using the wrong tools to assess results, or that they will be accurate measurements? Are we measuring volumes of water with a yard stick? This inevitably occurs with outcome assessment--what they say is that they want six inches of water, but water is three dimensional. This is the kind of conundrum we face when we look at systemic reform. What we are really talking about is a paradigm shift, and education has never experienced any radical paradigm shifts. We are still in these buildings, are we not? We still have lecture halls, classrooms, laboratories facilities, and we have had those for centuries. This is probably not going to disappear with the advent of the computer and Internet.

So what is driving this reform? Is it just that we have reached that point in the cycle, is it a matter of accountability? I once heard a teacher say that they liked what they did because it was impossible to measure how successful they were, and that there is no way to prove or disprove what they had done. Not like being a carpenter, where at the end of the day you have tangible evidence of your accomplishments. We seem to have two major (simplistic) approaches to education, the IQ approach and the mastery approach. The community college wrestles with both tensions. The traditional lower division transfer area dictates that we subscribe to processes of evaluation similar to those done at the transfer institutions. Consequently rigor and testing must be comparable. We have the professional/technical side where people have to perform and have the skill base. This is a very sophisticated level. Training is ranges from remedial to high plane, but it is also pragmatic. "I have to be able to do this or that", and the goal is measurable.

This then begs the question, do we really believe in change? Who are we as educators to initiate change, are we not the products of the old paradigm? Should we be in control of the rudder, are we as educators the best qualified to direct where we should head? Those who have come through the system have vested interest in the survival of the system as it is. If radical change occurs, then what does that do to the credibility of their credentials? We know from experience that when it comes to paradigm shifts, those most vested in the existing model are least likely to move the change forward, even if they created the new paradigm. An interesting and well known example of this is the Swiss watchmakers who came up with the idea of the quartz crystal time pieces. They discovered and developed the concept of the quartz crystal for keeping time but, because they were unwilling to move into a new way of thinking about watches, they lost the lead and eventually ninety percent of the market share.

Has education in recent times experienced a paradigm shift, and if so what was it. I find it difficult to answer this question, especially if you think of a paradigm shift being something in the magnitude of a major concept being replaced totally by another--round Earth/flat Earth. Even replacing teachers, in the context of re-placing them in the educational process, does not meet the requirements of a paradigm shift. Moving teachers from the position of information distributors, to coaches, facilitators and evaluators may not be adequate to qualify. What about distance learning? Here the shift is from a single room with many people interacting in socially condoned environments to many people in different rooms interacting in a non-social environment. No longer do we teach, learn and

share in a person to person, face to face situation. Social norms are not conveyed, social consequences of dress, manners and the like are non-existent.

At what level are we going to work, relative to systemic reform? Generally people are willing to agree at the broadest level, but unwilling at specific levels. When we attempt to assess training it is at four levels:

1. did they like it

2. could they do it

3. could they do it away from the classroom environment (on the job).

4. did it solve the problem

By and large training assessment has focused on number one. Did they like what they experienced? Would you recommend it to your friends? This is basically an attitudinal measure of satisfaction. Assessing ability to carry out a task in a controlled environment was also typically measured, but whether there was transference to the job was generally ignored. But the ultimate test is most probably the last, did it solve the problem, which broaches the question, why did you have them do it in the first place?

So why then do we have students do mathematics, why take science? It is possibly because we want people to be generalists, life long learners, sifters of information. The wide knowledge base allows the individual to be placed in new situations, or if something new appears they are able to draw on this knowledge. This enables the individual to sift the information and derive from that analysis an estimate of what is relevant. What we need to do is ascertain the solution to the problems. When people say that we need people to be able to read and write, is that really the problem that they are addressing, does it

really solve the problem? What impact does it have that they can not read and write? When we use the word need as a verb we are not necessarily addressing the solution to the problem. People often jump to the solution before assessing the real problem.

So what is education reform? Do we really know where we are now? Do we have a vision of what it should be, what it should look like, and how to get there? What are the desired outcomes of the process of education? Once these points are clearly configured, we should be able to develop the process by which we can assess how we are doing. Without a crystallized image of what exactly we are trying to do, we will continue to try to measure volumes of water using a yard stick.

Performance curves tell us that more and more energy is required to make improvements to a system as it approaches completion. That is, eighty percent of the work gets done on a project with 20 percent of the time and effort, and the last 20 percent to completion takes 80 percent of the effort and time. Is this the case with our educational system, are we in the upper percent of our performance curve? Are there no more minor "tweaks" that will make any significant difference? Can we really see any minor adjustments that we can make? Possibly the answer is no. Can we test better, have better classrooms, better equipment....probably. Will it make any significant difference in the outcome of the system...probably not. Are we just polishing brass on the Titanic?

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Helpful publications

American Association of Community Colleges. (1994). Community college: Core

indicators of effectiveness. Washington DC: AACC Communication Services.

Charney, C. (1995). The managers tool kit: Practical tips for tackling 100 on-the-job

problems. New York: AMACOM.

Kreider, P.E., Walleri, D.W., & Gratton, M. (1993). Institutional effectiveness and

student success. Gresham, OR.: Mt. Hood Community College.

National Center for Education Statistics. (1995). National assessment of college student

learning: Identifying college graduates' essential skills in writing, speech and

listening, and critical thinking. Washington DC: U.S. Government Printing.


National Center for Education Statistics. (1992). National assessment of college student

learning: Issues and concerns. Washington DC: U.S. Government Printing.

National Center for Education Statistics. (1992). <u>National assessment of college student</u>

<u>learning: Identification of the skills to be taught, learned and assessed.</u>

Washington   DC: U.S. Government Printing.

Parnell, D. (1991). <u>The neglected majority.</u> Washington DC: The Community College

Press.

Walleri, D.R., & Stoering, J.M. (1995). <u>The assessment matrix: Communicating</u>

<u>assessment and accountability requirement to the campus community.</u> Gresham,

OR.: Mt. Hood Community College.
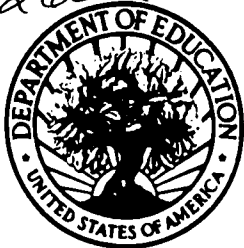
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