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AUTHOR Sheldon, Brooke E., Ed.

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#### ABSTRACT

The Leadership Training Institute at the School of Library Science, Florida State University, has compiled a guide for evaluating programs in library leadership training. There are chapters on the qualifications of a training director; the evaluation process; context evaluation, which includes a statement of the problem, objectives, and criteria; selecting alternatives; evaluating a program in process; assessing results; external evaluation; and heuristics, or evaluation based on personal experience. In addition, there are three articles on practical applications, dealing with forecasting for long range planning, evaluation tips, and a process monitoring feedback system. Appendixes contain evaluation techniques and forms from several projects, a bibliography, and a short glossary. (LS)



# A Guide for Library Leaders, Staffs and Advisory Groups

Brooke E. Sheldon, Editor

Prepared by:
The Leadership Truming Institute
Segool of Library Science
Florida State University

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## ACKNOWLEDGEMENTS

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Glossary



The Leadership Training Institute, School of Library Science, Florida State University, has prepared this guide, "Planning and Evaluating Library Training Programs."

The book is the result of much discussion and evaluation at the several sessions for Institute directors which were sponsored by the LTI earlier this year.

In recent years, evaluation as a logical component of educational activity and as a requirement in contract awards has become a much-bandied term. It has come to mean specific measurements (quantitative) yet also concern for goals, objectives, results (qualitative). All of education and much of librarianship is or should be closely involved in a continuing process of evaluation.

Unfortunately, most librarians and educators have received little or no formal training in the skills and reporting of evaluation. This handbook should help fill the gap of individual knowledge at the same time that it provides a useful tool for applying a well-publicized model to individual situations.

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This working tool will be even more valuable if it is used as a guide, rather than as a final answer to problems of evaluation. The staff of the Institute is convinced that the sessions of the workshops which helped test and react to the guide are representative of a broad range of evaluation problems. The interest and follow-up of participants at these activities is reflected in these pages.

It is hoped that you will provide additional comment to the Leadership Training Institute staff as you read and use the guide. Your reactions and examples could help make concrete a continuing attention to, and realization of, evaluation as a basic element of every training and educational activity.

Fand Staten

Harold Goldstein, Director Leadership Training Institute Florida State University

June, 1973



# Planning and Evaluating Training Programs

A Guide to Evaluation for Training Directors, Staffs and Advisory Groups

#### Introduction

The Leadership Training Institute, funded by USOE, HEA, Title IIB, provides selected training activities designed to meet library leadership training needs and problems as identified by library institute directors, faculty and key library and media personnel.

A problem area frequently reported is planning and evaluation. The initial draft of this handbook was compiled for use at three training sessions on evaluation conducted early in 1973 for Institute directors and staffs. The final product is based on the advice, criticism and input of these institute participants. It attempts to interpret some current evaluation theory, and translate it into a workable structure for practical application by training directors.

The danger in this is the ever-present one of over-simplification. The handbook may prove useful if it pulls together certain concepts that trainers and planners can use, but it must also point out that the techniques of planning and evaluation must not be applied in a vacuum that ignores rather than facilitates our concern with the creative activities of teaching and learning.

It is not important or even desirable that any one management system or evaluation model be used. It is important for the educator or director to look at the potential in each of a number of systems and test and adapt those components which not only seem useful for his own situation, and managerial style, but are also most effective in promoting maximum freedom for the learning process.



Some of the concepts presented have been selected because in practice they have provided a structury that lends itself to maximum participation of community, students, staff, and director in solving educational problems.

In assembling the hand book many ideas have also been adapted from other USOE Institutes, books documents, articles. A complete list of sources will be found in the bibliography as well as additional publications reflecting a variety of viewpoints.

This approach to evaluation attempts to:

- 1. provide a brief review of a current approach to management as background for implementation of the evaluation process. Management by objectives, or management by results, has been defined as a ystem requiring a clear identification of objectives, the establishment of a realistic program for their achievement, and an evaluation of performance in terms of measured results in attaining them
- emphasize that training evaluation must be two way; that both students and faculty must provide the insights that lead to improved decision making;
- emphasize internal on-going or process evaluation as distinct from the traditional concept that evaluation takes place only after the training has been completed.

## **II.** The Training Director as Manager

In education, perhaps to a far greater degree than in any other field, the concept of participative management must be stressed. Interaction between teachers, students, and the subject matter is the hear of the educational process. This, however, is not likely to happen unless the training director views himself as the manager, or leader, and is able, with staff and students to conceptualize clearly the objectives of the program, and after the system, when necessary, to achieve these objectives.

Fo do this, he must work with advisory groups, staff and students to draw up objectives which include not only the personal and professional goals and satisfactions of the teaching staff, but also the personal and professional goals and satisfactions of the students.

### Are Librarians Managers?

In the past years, many librarians and library educators have projected, ununtentionally perhaps, the attitude that since libraries are not threatened eas is industry) by closure if they fail to produce, the compulsion to be a good manager does not exist. There has also been a tendency by the profession to overemphasize the difficulties of quantitative measurement in education and provision of information service.

This approach to librarianship is hardly taild today. However, we found in a small and highly unscirebific survey based on informal conversations with at least 30 colleagues at professional meetings that many librarians who will

agree that librarians must practice better management, also have difficulty relating the idea to their own job situation. Almost all librarians and or educators give lip service to the idea, but three out of four go on to either quality or dismiss the subject with variations on the following theme: (in order of popularity)

- a. "But my situation is a little bit different. I work in a small independent government library, and supervise only three people."
- "Well, yes, but you can't go gung ho on any one system."
- Personally, I'm more the Simon Legree type.
- d. "Try to practice good management and reward people for results in that bureaucratic jungle I work in!"

This handbook suggests that skill in working with staff, students, and advisory groups in formulating common goals and objectives offers the most promising approach not only to managing a training program, but also to evaluating it. Continuous evaluation, accountability, and measurement is a large slice of the management process.

The purpose of evaluation is to provide information for decision making. Few training directors would quarrel with the statement that there are four crucial areas of concern in designing and implementing training:

- 1. Exploration of needs and choice of policy goals, and statement of program objectives.
- 2. Selection of training activities to achieve these objectives:
- 3. On-going monitoring and modification of programs to achieve stated objectives; sometimes mid-stream modification of initial objectives;
- 1. Concluding activities and product evaluation for recycling decisions.

## Objective Setting and Evaluation

Our theory, based on reading many program proposals submitted to the Office of Education for funding, in addition to working with prominent librarians in attendance at evaluation sessions, is that not many are trained to break down a broad abstract goal into a specific measurable objective for program planning. Locking this basic background, they are often "turned off" at evaluation sessions in which seemingly complex evaluation models are presented, but no clear background provided to show that these models are tools to be used and adapted in meeting institutional objectives.

This is not intended to imply that the whole process of evaluation should relate to the attainment of program objectives. An evaluation which simply asks "Were the objectives mcC If so, to what degree? is very storde as it discourages mid stream modification and a full examination of all the factors which will be invaluable for future planning decisions.

However, it is still true that it will be very difficult, it not impossible, to either manage or evaluate any project without well formulated program objectives.

Current approaches to sound management being used, not only by industry, but by many social and educational organizations, place heavy emphasis on the manager's ability to nearly with his staff in translating broad, philosophical goals into measurable, attainable, understandable objectives. This approach,

the management by objectives or appraisal by results system, demands that administrators—become—results oriented: this means concentration on processes which produce results; elimination of efforts which do not.

### Advantages of MBC

How does management by objectives achieve this, and also provide other advantages as a management system? Whether you supervise one person or 300, the following points about MBO are worth noting.

- because there is agreement between supervisor and subordinate training director, staff and students) on a common objective. It is written down, and there is communated by all (or both) to accomplish what must be done to achieve it. This however is not an acceptance of the director's objective by the group it is the group's objective and the time spent in sitting down to consider the problem and reach agreement on it is time-consuming, but the most important part of the process.
- 2. The administrator now has a basis to rate people on the basis of results, not on personality traits. You begin, as a management team to identify those who achieve, not those who conform. To reward, not those who fit inter the organization, but those who make a positive or creative contribution. In conflict, we begin to talk about what is right instead of who is right. We climinate the fuzzy thinking that allows us to get begin down in how we be going to do something before we have decided what we want to accomplish.
- 3. In going through this process, we not only achieve better communication, a group consensus about the common goal, but also agreement about areas of responsibility span of control. Everyone in the organization knows where his job fits into the whole picture. Often his conception of himself and the contribution he can make will expand considerably, as he helps to suggest ways to solve the problem. It allows the creative, ambitious, energetic staff member to get "a piece of the action" and is a fantastic morale builder. There is, however, a trap to this, Having rased expectations, faving encouraged his participation in the decision making process, the administrator cannot drop the ball. At least some of the agreed-upon changes must happen, and happen soon. When certain objectives can't be met, the staff and students must not only have the nodification of objectives.

The other challenge for the director is to provide the conditions in sources, time, working conditions under which the group will find it possible to meet the objectives. This is probably his hardest task, but if he and his staff have a mutual understanding of where they are going, and if they have selected together strategies to get there, the director is less likely to resort to management by crisis, charisma, or so called "common sense."

For the training director and decision maker, a primary need is a systematic plan so that decisions are not based on impulse or infuntion, but are rational and deliberate because they are based on information

systematically gathered, and relate directly to accomplishing (or modifying) program objectives.

Our problem in doing this is that in running a project or training program, we tend to become so involved in the process, we become impatient with theory that seems to get in the way of getting the job done. It's easier to let an outside evaluator (see section VIII) tell us what we did wrong than to go through the somewhat tedious process of defineating objectives for each segment of the program, and then analyze what is actually happening, or listen and respond to the feedback; but, this is the only way we can really learn from the experience, and eliminate our mestakes as we go along and in the next go-around. In practice this process becomes almost ascomatic for both director and staff.

## III. Evaluation . . . A Process

The usual way to evaluate is to preceed through a project or training program according to plan, and, when it is finished, determine whether or not it has been successful. Often, we are aware, in mid-stream that program modifications should be made, but we find no easy way to effect such changes through all stages of the project.

The social sciences have not yet discovered "the answer" in terms of a single scientific approach to achieving and measuring results, but there are many new and current tools (others in various stages of developments for project management and evaluation. This handbook does emphasize certain basic approaches to evaluation, thus it does have a "point of view," but the importance of adapting a concept that is appropriate to one's own situation cannot be overemphasized.

We have, therefore, in this section, taken some time and space to mention a few of the current educational evaluation systems. The idea is to provide a sketchy—overview with citations to facilitate further investigations.

#### Current Systems

The development of PERT (Program Evaluation and Review Technique) and PPRS (Planning, Programming, Budgeting Systems) provided promising techniques to improve project management, PERT, developed by DuPont in the 1950's is a probability system which seeks to reach objectives in the shortest time possible with unnimum cost. The PERT network is a graphic representation of the plan (see Fig. 1).

PPBS is a method of achieving cost effectiveness through budgeting by program rather than on a line item basis. It begins with the identification of objectives: it then groups the organization's activities into programs that can be related to each objective. PPBS focuses attention on the competitio, for resources within programs, thus forcing detailed analysis of alternatives, and careful selection of priorities.

In spite of wide adoption of PPRS by federal and state government agencies, there is criticism of PPRS by some educators who see it and offer management systems as an arbitrary, strongly centralised system with an ultimate objective of cost reduction rather than cost benefits.<sup>1</sup>

It is also unfair to imply that management by objectives has been unaversally accepted by the educational or behavioral science community.  $\lambda$ 

Halprin who states, "One of the gravest dangers that we experience is the danger of becoming goal-oriented. It is a tendency that crops up in every field of endeavor... It doesn't work! The results of this over-simplified approach, now coming into general vogue, are all around us in the chaos of our cities and the confusion of our polities..."<sup>2</sup>

One problem with adopting PPBS and similar systems such as OR (Operations Research) as the total answer is that they are designed primarily to help a monolithic decision making structure plan and evaluate. The techniques are useful to any planner but educators and librarians should also examine more comprehensive evaluation models designed to provide information for decision making for a variety of groups and individuals with different value systems as are found in any community. Teachers, boards, advisory groups, students, special interest groups, parents are the decision makers in the educational process.

#### Alternatives

A number of evaluation systems or models to meet the needs of a pluralistic society are being tested and compete for use in the educational field. For example the Discrepancy Evaluation model tested by Makeolm Provus in the Pittsburgh school system suggests that performance must be compared against standards, and feedback given to decision makers about discrepancies. This feedback permits staff to change either the behavior or the standard. At each of five stages of the model (Design, Installation, Process, Product, Cost) this assessment is made so that there is on-going evaluation and a large degree of staff involvement.

#### Yi ake

Like Halprin, Robert Stake, Uncosity of Illinois, negates the value of objectives in evaluation as a starting point for planning educational processes. He calls them "judgement data better treated by the rules that govern mass subjective responses than by the honors bestowed upon "fundamental truth". "Stake never beloss calls for a continual rationale and definition of purpose of the instructional program and sees educational process as a continuous series of transactions between student teacher materials. This transactional data must be identified, and analysed for its contribution to the program, and improvements made as instruction continues.

#### 1000

Michael Seriven's work has eniphasized an important distinction between formative (process) and summative (product) evaluation. In formative evaluation the data is used to make judgements about what works about specific aspects of the on-going program. Summative evaluation is an assessment of the entire program, and thus may call for a completely different set of criteria for evaluation. If the program is then judged as part of the total educational program, different but also appropriate criteria is used. "

Metfessel and Michael have pointed out many of the outcomes intended and unintended that night be included in the evaluation of a program—and suggested methods of measuring them.

#### Lyler

An emphasis on continuous questioning of the educational program in relation to student needs is an overriding characteristic of the evaluative theory developed by Ralph Tyler. He deplores the practice of selecting students because they have the ability to meet program requirements, as contrasted with creative objective setting to fulfill an educational challenge. The model tends to focus on product evaluation.

There are dozens of other educational researchers working in the field and the creative trainer manager should also give some attention to the work of the Phi Delta Kappa National Study Committee on Evaluation and several university research and development centers (i.e. University of California, Berkeley), some of them conducting research funded by the U.S. Office of Education. Eleven regional educational laboratories and eight Research and Development Centers have recently been transferred from the Office of Education to the newly created National Institute of Education. The National Institute assumes responsibility for basic and applied research; the regional laboratories; researcher training and experimental schools; and dissemination of research results.

#### CIPP

No planning evaluation model has yet been designed specifically for evaluation of library programs. However, the CIPP model (Context, Input, Process and Product) developed by Daniel Stufflebeam at Ohio State University, intended for use in meeting problems of accountability and decision making in education, has recieved national exposure in the library profession through a year long USOE Institute for State Library Agency planners and subsequent follow-up training sessions in individual states, and at regional library meetings (SELA-SWLA, November, 1972). The CIPP model is not always clear as to methodology, and clearly was designed for use by an organization large or complex enough to be able to assign staff to carry out the evaluation as a major part of their function. Obviously that is not practical for most educational and library situations. However, the model does lend itself to simplification and adaptation as well as obtaining relevant data for decision makers, it merits consideration.

This handbook utilizes the CIPP format for presentation of conecpts, and most models are adaptations of CIPP for possible use by library training directors. However, as noted above, rapid advances in the design of evaluation models in a number of fields necessitates a very open approach.

Desmond Cook has suggested that there may be enough the oretical background available, and what we need are the skills to apply what is known rather than the development of new models. He makes a strong case for further emphasis on the provision of information, adequate and useful data for decision making."

The CIPP model detries evaluation as the process of delineating, obtaining and producing useful autormation for judging decision alternatives. The process includes 3 basic steps: the delineating of questions to be asswered and information to be obtained, and obtaining of relevant information, and

the providing of information to decision makers for their use to improve on-going programs.

Four kinds of decisions are specified by the CIPP model. Planning decision determine objectives. Structuring decisions project procedural decisions for archieving objectives. Decisions in executing chosen designs are implementing decisions, and recycling decisions determine whether to continue, terminate, or modify a project.

These decision types are served by the following types of evaluation. Context evaluation provides information about needs, problems, and opportunities in order to identify objectives. Input evaluation provides information about the strengths and weaknesses of alternative strategies for achieving given objectives. Process evaluation provides information about the strengths and weaknesses of a strategy during implementation, so that either the strategy or its implementation might be strengthened. Product evaluation provides information for determining whether objectives are being achieved and whether the procedure employed to achieve them should be continued, modified, or terminated. Basically, the CIPP Model answers four questions: What objectives should be accomplished? What procedures should be followed? Are the procedures working properly? Are the objectives being achieved?

An adaptation of the CIPP model for library training appears in Figure 1. Subsequent sections are intended to clarify the model.

<sup>1</sup> Leo Ruth, "Behavioral Objectives and the Danger of System Think" Research Resume: Proceedings of the 24th Annual State Conference on Educational Research, No. 48, Nov. 1972, 83-84.

Environment. (New York: Braziller, c1969) p. 4.

3 Operations Research is a system that uses mathematical techniques to

<sup>2</sup>Lawrence Halprin, The RSVP Cycles: Creative Processes in the Human

procide management with a logical base for decision making.

\*Malcolm Provus, Discrepancy Evaluation for Educational Program

Improvement (Berkeley: McCutchan, c1971).

\*Robert Stake, "Objectives, Priorities and Other Judgement Data,"

Review of Educational Research, Vol. 10, April 1970, p. 183.

<sup>6</sup> Michael Scriven, the Methodology of Evuluation, AERA Monograph Series on Curriculum Evaluation, No. 1 (Chicago: Rand McNally, 1967).

<sup>7</sup>Newtor Metfessel and William Michael, "A Paradigm Involving Multiple Criterion Measures for the Evaluation of the Effectiveness of School Programs," *Educational and Psychological Measurement* 27:931-43, 1967.

<sup>9</sup> Provus, op cit. p. 150.

<sup>9</sup>Desmond Cook, "Management Control Theory as the Context for Educational Evaluation," *Journal of Research and Development in Education*, Vol. 3, No. 4, Summer 1970, p. 14.

<sup>10</sup>Daniel Stufflebeam, "The Relevance of the CIPP Evaluation Model for Educational Accountability," *Planning and Evaluation for Statewide Library Development: New Directions*, Ohio State University, 1972, p. 24-33.

## IV. CONTEXT EVALUATION

## 1. Statement of the Problem

should be. The need is the discrepancy between the current situation and the records: resources, available and potential. There are also several technical expressed by all types of libraries; student opinion, academic vocational statements of professional, national and local priorities, employment needs as appropriate data: community, local, state and national need projections: process (director, faculty, student representatives, etc.) will utilize all creating the change should be identified. The group going through this desired situation. At this stage the decision makers should set forth what environment in which change is to occur, an outline of what is and what described in an article by DeLayne Hudspeth in Section X. judgement, not just the influence of certain opinion makers. Delphi is to assure that forecasts and predictions of the future reflect rational forecasting future events. For example, the Delphi technique was developed forecasting techniques that decision makers can use in assessing needs, and reports; demographic and economic surveys; citizen advisory group inputs, barriers exist to block the desired change, and opportunities that exist in The analysis of the problem should include a description of the

Having explored the problem it is sometimes helpful for the decision makers to illustrate the situation in a very basic way (Figure 2).

### 2. Setting Objectives

From the contextual information gathered should flow the statement of training objectives. These should represent states or conditions which are logical solutions to the well-defined problem and should contribute to but not be confused with the overall goal of the project.

#### Goals

A goal may be described as timeless, or long range (the group may never reach agreement on when it is achieved) and broad in scope. This does not however mean that time should not be spent by the group in reaching agreement on the overall or long range goal. The overall goal will provide an umbrella statement with a policy focus that gives direction to the entire program. For example, a training goal "to produce better educated librarians" gives very little direction for implementation of a project, but a goal stated as: "Provision of training for minority group persons in the library



# ADAPTATION OF CIPP MODEL FOR LIBRARY TRAINING

Provide	2 Obtain	1 Delineate
Set forth overall training goal specific, measurable objectives. Rank in order of importance (document).	Faculty, advisory group, student representatives review all facts—isolate needs, problems, opportunities, formulate criteria for decision making.	CONTEXT  What's out there?  Gathering data to provide complete background of problem.
Group chooses best alternatives. Formulate (in writing) detailed plan of action: who does what? Time frame pattern for decision making.	Facts about each alternative (cost, feasibility). Apply criteria formulated in context.	What to Do about It?  All possible ways to meet objectives, decision making group brainstorms.
Provision for feedback loops. Flexibility for making changes and results.	After individual and group input, who acts to effect modification?	Are We Doing It?  Techniques to be used— for establishing milestones or checkpoints, time-cost performance.
Transferability to other programs.	A report of the project—description findings—summative conclusions.	PRODUCT  Did We Do It?  Data to show results for each objective.

Figure 1: Adapted from *Planning and Evaluation for Statewide Development*. Ohio State University Evaluation Center, 1972, p. 27.



programming. profession" is general and timeless but provides a focus for planning

and

June, 1974." students will be trained at the Masters level in urban information centers by with difficulty) within a given time frame. Eg. "Twenty-five minority group three critesia: it must be measurable, understandable, attainable (sometimes statement that shows specific outcome expectations. An objective must meet An objective, on the other hand, will take the goal and translate it into a

advisory group to measure because they imply a continuing process, and are troublesome for the administrator, evaluator, instructor, student or inherent idea. Usually objectives which begin with "to provide," "to assess" therefore the final product is sometimes obscure. Often the chief problem is in the way the objective is stated, not in the

precisely what students will be able to do after completing a course of instruction. Again the focus is on outputs or results. A problem common to training programs is that students frequently are Behavioral objectives may be defined as statements which describe

frustrated because they do not understand what is expected of them. Several

objective setting process? objectives; how much better would they do if they participated in the studies have shown that students do better if they are provided with Behavioral objectives are the lowest step on the ladder in the hierarchy of objectives. Certain operational objectives are not related to the course of Behavioral Objectives instruction, but in planning a training program each type of objective is an

equally important tool in reaching the overall goal

expressed as follows: The relationship of behavioral objectives to the overall structure may 훘

Task Analysis Objectives Behavioral Objectives Goa Value Statement timeless, not readily Concrete specific time frame, measurable Specific operational activities -Use only in relation to appropriate activities stated objectives for

A

Provide a planning phase for the development of a curriculum for the training of media librarians to serve public libraries in an inner city environment.

To create an awareness of current, critical issues in cable communications.

To experiment with techniques of motivating the urban poor to take advantage of the services of social agencies and public libraries В

Model curriculum developed for training of media librarians to meet needs of public libraries in an inner city environment to be completed by June 30, 1972.

Institute participants will be able to interpret current critical issues in cable communications for other members of the profession, and the public for improved decision making.

Five new techniques designed to motivate the urban poor to take advantage of the services of social agencies and libraries will be tested and compared Institute participants during the academic year 1973-1974.

C

MLS candidates will isolate political structure of an inner city community or barrio, and design a plan for involvement of the community and power structure in providing information services.

By June, 90% of Institute participants will conduct workshops in their own states interpreting the concepts presented here.

Each student during field work assignment based on community needs assessment, will plan and suggest a new concept in provision of information services. The student will be able to provide a written evaluation of the plan (accepted or rejected).

original objective (or Goal); Column B the objective stated in more behavioral terms. measurable terms; Column C the objective (or a small portion of it) stated in Examples of objectives from funded proposals follow. Column A contains the

**!** ')

### **BASIC PLANNING**

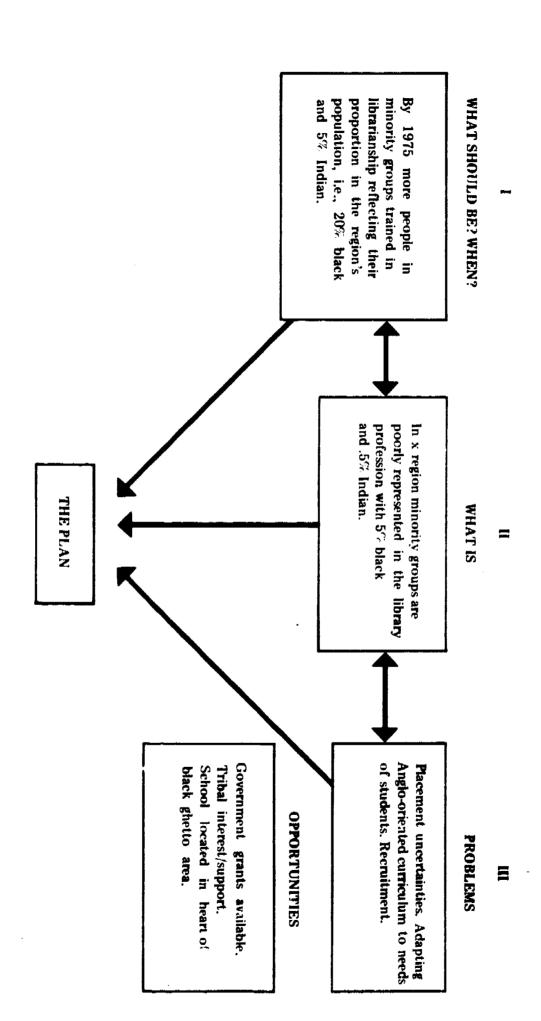


Figure 2



The following chart of a hypothetical hierarchy of objectives will serve to illustrate how each objective can be broken down into manageable operational levels. Such a chart also helps insure that no aspect of reaching the ultimate goal is overlooked (Figure 3).

If it is decided that the training program should have a broad goal for purposes of flexibility and change, then it is essential for evaluation that the goal be broken down into clearly stated operational objectives:

#### Example:

Goal: Provide para-professional library training for minority group personnel

Objectives: 15 Indian students with AA degree placed in para-professional jobs within three months of program termination.

Ten Indian students trained and employed in school media centers.

Twenty minority students accepted into regular on-going library training programs of the college, based on success failure factors of this training program, by 1975.

### Behavioral Objectives

Students will be able to name and generally describe the use of 40 reference tools commonly found in school media centers.

Students will be able to articulate the role and function of the media center in relation to the total school program.

Students will be able to utilize the Abridged Dewey in accomplishing basic cataloging procedures.

Students will complete a bibliography of all readity available media relating to his particular Indian heritage for use on the job, and for exchange with other students.

## Criteria for Decision Making

In assessing needs, setting objectives, and evaluating results, the decision making group should agree on and set forth criteria so that judgements will be based upon a generally acceptable standard, rule or test. This helps avoid subjective decision making.

The problem of establishing criteria is that usually several sets on several levels of the training program are needed in order to measure various aspects of the program. Therefore, any statement of criteria should indicate what the criteria will be used for. Eg. criteria for assessing curriculum effectiveness.

Gary Wegenke and Harriette Robbins have delineated four major categories of criteria: 11

- 1. Goal relatedness—The importance of judging ideas as activities in relation to stated goals and objectives. How does the activity fit into overall project goals, i.e. how does this training program meet national priorities for library training? The authors also suggest four criterion measures to use in evaluating objectives. Do they clearly state: what is to be done? by when? for whom? and why?
- 2. Feasibility—This refers to the potential the activity has for being successfully completed. Usualty factors such as financial resources, personnel, time, physical facilities, are listed as criterion measures to be considered. Eg., a program to combine practical experience with course work may be highly goal related, but impractical because of time and financial constraints on participants, lack of suitable opportunities in local libraries, etc.
- 3. Efficiency—Here the question is asked: will this training yield a higher return in terms of changes it is proposed to bring about? This should be measured in terms of dollar costs and staff and participant effort spent to achieve the result. This category overlaps with others but focuses on the relationship between cost factors and performance factors. Eg., the work study program is tested against its relatively high cost vs. improved on-the-job performance it is expected to achieve.
- 4. Effectiveness—refers to the impact of the training program—the contribution it makes toward meeting overall objectives; the production of the desire effect or result. Performance indicators in this category should be well defined. These might include:
- a. number of students completing program:
- b. on-the-job performance ratings at employing institutions;
- c. adaptation of similar training program or components into regular school curriculum.

# V. SELECTING ALTERNATIVES (INPUT)

Probably the single most neglected area of program planning is the consideration of alternatives. The potential for some really creative approaches to meeting objectives is most often lost in adopting tried methods that are not always the most effective. One of the major weaknesses in planning and decision making is to yield to the temptation to come up with



**4** ?

<sup>&</sup>lt;sup>14</sup> Gary L. Wegenke and Harriette L. Robbins, "The Problem of Criteria" in Planning and Evaluation for Statewide Library Development, op cit. pp. 58-68.

### Hierarchy of Objectives

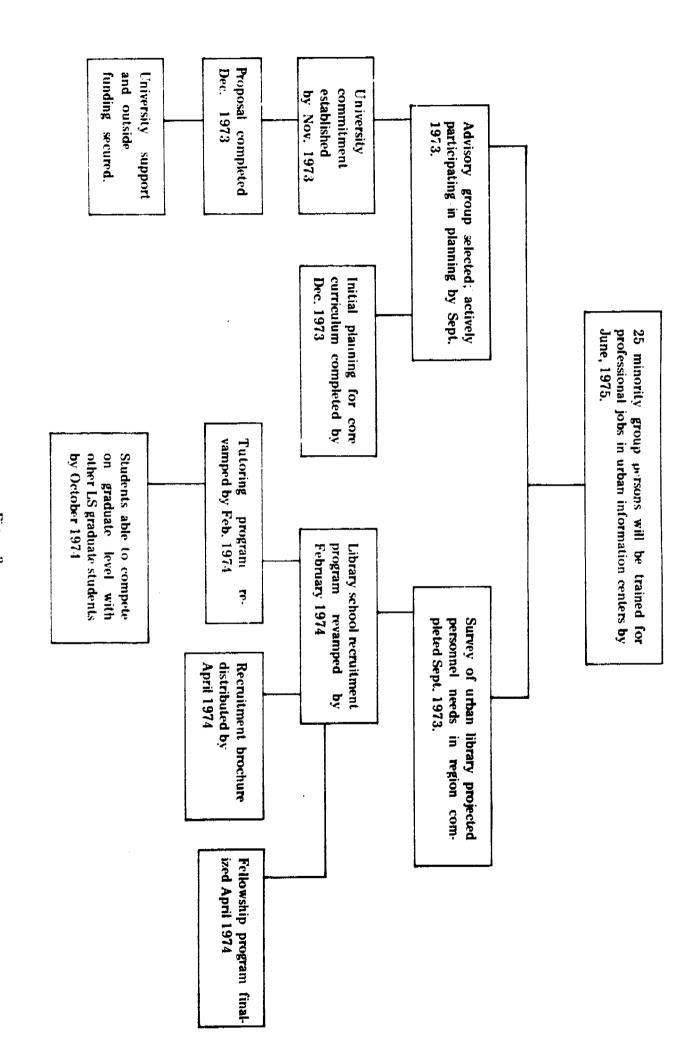


Figure 3

) k 4



the right solution at once. The obvious strategy is rarely the one that will give us the best answer to the needs and opportunities of the situation.

Having reached agreement on objectives, every possible implementation strategy should be laid out by the decision making group in a free-wheeling brain storming session, and the pros and cons of each recorded. All alternatives should be ranked according to feasibility, experimental value, cost effectiveness, available resources, etc. (See criteria above.)

Thus Input evaluation will provide a rationale and record of why certain alternatives for program implementation were chosen. If later on, certain operational objectives are not being met, this information will be valuable in the process of choosing another implementation strategy.

Choosing Strategies: Sample

Objective: Twenty minority students accepted into regular library training programs by 1975.

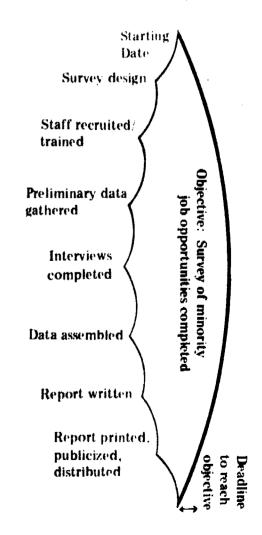
Suggested alternative strategies:

- Newsletter produced by institute students to acquaint student/faculty with program:
- 2. Meetings with Library School and University administration:
- Tutoring program for potential applicants:
- Financial aid, fellowships for minority group members:
- 5. New admissions policy:
- Survey to show job market potential and employer commitment:
- 7. Invitations to "regular" faculty to guest lecture:
- Pressure from minority group associations on campus.

In considering all alternatives to meet the above objective, it is vital that the group share fully its experience with the Library School administration—both the success and failure factors of the Institute program will be useful. For example: if it is found that a two year program combining field experience and academic study in fact produces more effective beginning librarians (as evaluated by library employees) then these facts should be made available. If, on the other hand, the Institute tutoring program fails to achieve the expected results and it is found for example that multi-lingual students cannot in the short span of the tutoring program achieve the oral-written competencies needed, then this problem must be explored and solutions sought by the Institute's staff and the library school faculty together.

#### l'he Plan

When alternative methods are chosen, we then have to make certain that these decision are translated into action. To do this we need an action plan that spells out who does what and when, and we must be certain that each person understands his role. The plan does not have to be elaborate, and its form should be flexible so that it can be quickly modified in mid-stream. There are some simple planning devices that are useful in establishing whether or not it will be possible to complete all activities in time to reach the deadline. Are example is the diagram below:



Each point represents an event that must occur to reach objective. Such a diagram forces the planner to put down exactly what must happen, and acts as a reality check so that he does not find himself attempting the impossible.

Another device is the PERT chart which can be fairly simple but is probably more useful for fairly complex projects. In PERT, events and activities are sequenced on a network so that you have not only a critical path (activities which must be performed to achieve the objective) but also sub-critical paths showing inter-dependencies but non-essential program elements. The critical path is the one that will consume the most time in reaching the objective.

A PERT network is composed of events and activities. Events represent the start of completion of an activity and do not consume time, personnel, or resources. An event is represented by a circle. Activities consist of work processes which lead from one activity to another, and are represented by arrows.

In PERT, three time estimates are made for the expected duration of an activity—the pessimistic time, most likely time, and the optimistic time. These estimates should be made by the person responsible for the event, not the program manager.

It is suggested that PERT is most useful in planning a new project whose completion will take at least two months, and in which the network will consist of at least 10 distinct events.

A sample PERT Chart may be seen in Figure 4.

The remainder of the handbook will deal with two major aspects of evaluation: Process or formative which is of primary concern, and product or summative which is only useful when properly recorded and utilized for future or recycling decision.



### SAMPLE PERT NETWORK

July 1, 1973

July 15

Aug. 15

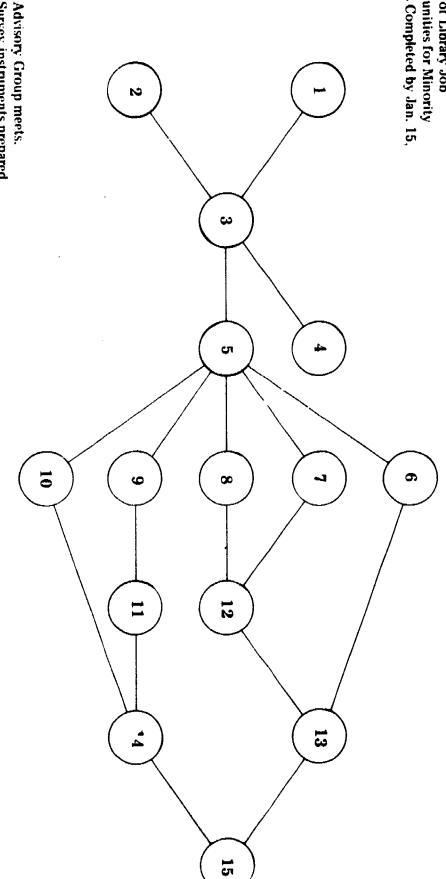
Oct. 15

Nov. 15

Jan 15, 1974

#### Objective

Groups Completed by Jan. 15, **Opportunities for Minority** Survey of Library Job



- Survey instruments prepared.
- Survey design completed.
- Advisory group approves, modifies design.

  Parttime help recruited, trained.
- Preliminary data gathered.
- Local/regional interviews completed.
- Advisory group meets.
- Prospective employer commitments secured.
- National professional opinion secured.
- Distribution plan for report formulated.
- Data assembled into final draft.
- Publicity on survey findings prepared released.
- Draft report mailed to advisory group, key professionals, library directors,
- national associations.
- 15. Final report, written, distributed.

Figure 4



## VI. IMPLEMENTATION (PROCESS)

questions might be: Are we actually using the tactics we planned? Are the modification or another strategy can be substituted. Some pertinent while it is being implemented so that decisions can be made on the spot for procedures working? Will this approach enable us to reach our objectives? Process or formative evaluation provides information about a strategy

## **Conflict Management**

promote collective wisdom, to insure a maximum sense of legitimacy for decisions finally agreed upon." <sup>12</sup> conflict will "create baffles and buffers to buy time, to absorb heat, to manager will recognize his limitations and in inevitable moments of extreme among the group and eliminating of an autocratic approach but a successful possible to minimize conflict through creating respect for disagreement creative organization, and it is far less to be feared than conformity. It is or should eliminate conflict. There must always be dissent in a healthy planning/decision making is not intended to imply that such procedures can At this point, it should be noted that the emphasis on group

mistake of reaching agreement on a solution when we have not succeeded in alternatives in a situation, to allow for every point of view, to avoid the decision until the next meeting. isolating the problem, there is a huge temptation to simply postpone the But how do we get decisions made? In our zeal to examine all the

but clearly we must also find ways to make decisions as we go along. At times, as Bailey suggests, this is the best way to handle the problem

conclusion of the March 15 meeting, an alternative method of choosing agencies for field work will be selected." The problem here will be to have sufficient data available for the group, so that it will have a rational basis for be made immediately. An agenda for a faculty meeting might state: "By the Often it is necessary to set an arbitrary time limit on decisions that should

## **Establishing Milestones**

administrators, and project managers, as it is for industry. on-going process seems to be most difficult for training directors, library Working out a simple system to enable us to modify the internal or

against a calendar scale; each bar represents the beginning, duration and end in time of some segment of the total job to be done, and together the bars make up a schedule for the whole program. The Gantt chart was developed around 1900, and is a series of bars plotted

improve the Gantt Chart is the Milestone system, a key step in the show program function interdependence, and is inflexible. One attempt to list of the tasks to be accomplished. The milestone chart is not as flexible as be identified when reached as the program progresses. It provides a sequential development of TERT. Milestones are key events or points in time which can The Gantt chart is not an effective management tool in that it does not

> PERT but it does promote increased awareness of the interdependencies between tasks.

sequences for evaluation milestones, and what types of evaluation techniques will be used. The simple Milestone Chart in Figure 5 is intended to illustrate time

sample problem solving session, report form, etc. These are not necessarily their training programs, or are currently in use at library schools. rating forms on instructors, course work, rating forms for supervisors, a presented as exemplary, but have been developed by Institute staffs for use in The Appendix is made up of sample evaluation forms including student

cheaply for small projects as well as large. State University Evaluation Center. It is designed to be operated quickly and system that has been tested and found workable by Dr. Ken Eye at the Ohio The Appendix also includes a description of a project process feedback

students should participate in design of any evaluation instruments to be to how this will be carried out, degree of student involvement, etc. Ideally, formal training sessions start so that there is clear agreement among faculty as A planning session for project on going evaluation should be held before

explored are myriad but certain areas should be examined on a regular basis These include: At faculty and faculty-student meetings the variety of topics to be

- a. Suitability of training to student's needs:
- Relevance of type of training to the problem to be solved (usually each course should have specific behavioral objectives);
- Variety and appropriateness of training methods;
- c. Variety and appropriate incomes or warming of trainees toward and specific interest in courses; (frequently d. Attitude of trainees toward and specific interest in courses; (frequently d. Attitude of trainees toward and specific interest in courses; (frequently d. Attitude of trainees toward and specific interest in courses; (frequently d. Attitude of trainees toward and specific interest in courses; (frequently d. Attitude of trainees toward and specific interest in courses; (frequently d. Attitude of trainees toward and specific interest in courses; (frequently d. Attitude of trainees toward and specific interest in courses; (frequently d. Attitude of trainees) student objectives are not the same as the faculty's.

will result in frequent program modification if communication channels These meetings should allow them to discuss their feelings openly—and

informally, always repetitively, with conscious review, checks and balances. only what is different, but also why. Thus we can document what happened success. In any case, the decision making group should try to analyze not decision. These decisions are sometimes made formally but more often and use it later in other programs. of effective procedures and modification of ineffective ones. Things may very well go other than anticipated. This, by the way, does not connote a lack of the process, to make it more deliberate, rational, thereby enabling replication The only added feature of process evaluation is that it formalizes and records There are always crisis situations of various sorts calling for an immediate

needed, and in an understandable format for your program to facilitate accordingly. Any format which provides the information needed, when actually occurring are noted, analyze why and adjust the program Where discrepancies or exceptions between what is planned and what is

	Rating Sheets* for courses, other materials, faculty-students	Faculty-Advisory Groupstudent meetings (3)	Faculty-student meetings (monthly)	Periodic Counseling appointments with individual students (bi-weekly)	Evaluation Milestones	D. Training Implementation	C. Alternatives for accomplishing objectives; design plan	B. Formulate Goal, Objectives  Design Evaluation	A. Staff, Advisory Group conduct needs assessment, criteria	Activities
*See Sa										73 Jan.
*See Sample evaluation forms										March
lation forn										May
ns Appendix II Fig										June
dix II Figure 5						•				August
<b>.</b>										Sept.
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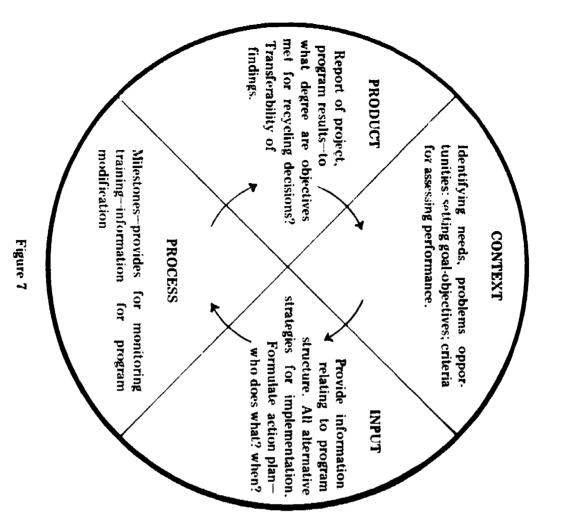


Figure 6	.4	ċυ	<b>,2</b>	·**	Alternative solutions	Analysis (why?)		September 1 — November 1, 1974
							o Program Modification ieved Agreed Upon (or change in objective)	

} **(**)

decision making, is adequate (see Figure 6 and Ken Eye's article in the

### ADAPTATION OF CIPP-MODEL FOR ON-GOING **EVALUATION, ACTIVITIES IN LIBRARIES**



cit. p. 22 Theory" in Planning and Evaluation for Statewide Library Development op <sup>12</sup>Stephen K. Bailey, "Conflict Management. The Lessons of Political

## **EXTERNAL EVALUATION**

project should be continued, modified or terminated. Product evaluation provides information for determining whether the entire To what degree have training objectives and project goals been achieved?

center, traditional library school curriculum, etc.?" Has it reduced the of them) what difference will it make in the 'real' world-library, media question, "If the project is successful in meeting its stated objectives (or most need—the gap between what is and what should be? If so, to what extent? process is also concerned with impact. Here we are seeking answers to the Sometimes called summative evaluation, this aspect of the evaluative

goal and training objectives. Among groups from which such data should be collected are: Criteria previously selected (as part of context) are applied to the project

Participants (morale, interest in profession, self-confidence, etc.)

Faculty

Project personnel

Field supervisors (staff)

Parents/community

Consultants

(raining) Potential or actual employers of participants (on-job suitability of

summative evaluation are: Among the techniques which lend themselves to data collection for

Standardized tests

Questionnaires Ad hoc tests

Performance ratings

Observation schedules Interviews

> Case studies Attitude scales Rating scales

Audio tape or visual (video tape, films) records

Analysis of costs

In summary the CIPP model answers four basic questions:

- 1. What objective should be accomplished (and why)?
- 2. What procedure should be followed?
- 3. Are the procedures working properly?
- 4. Have the objectives been achieved?

considering alternatives, and so on. To illustrate the continuous recycling continuous process of data gathering, reaffirming or modifying objectives, process, the following adaptation or CIPP is suggested for use in training staff Each of the four major components of the CIPP model represents a

## VIII. External Evaluation

As noted in the introduction, our approach in this handbook has been on the problems of internal evaluation. However both internal and external evaluation are vital to any training program.

amount of tension between the areas of action and research. Brooks describes a situation in which "The action-oriented professional has regularly lambasted the ivory tower, whose inhabitants supposedly spend all their time gathering data aimed not at solving concrete human problems, but at building bigger and better theories to be discussed at stuffy conferences and debated in unreadable journals. Such persons are often reported, only half-jokingly, to be incapable of making the most innocuous of judgements without a supporting body of empirical data; and such bodies are frequently subject to more than one interpretation, the data itself immobilizes the researcher and makes him unwilling to formulate policy implications.

The researcher, for his part, is often heard belittling the action-oriented practitioner for his failure to conceptualize clearly; for his inability to think in terms of systems; for his tendency to act on the basis of subjective whims or impressions, ignoring existing empirical data which might suggest altogether different actions; for his failure to realize that the action which he takes in the future could be made more rational and effective if only he would engage in (or support) a little follow-up research on the actions he is taking today; and for his apparent fear of evaluation on the grounds that it might call his own actions into question.

Brooks however goes on to indicate that this tension is easing and there is growing dialogue between the two areas "as researchers come to recognize their responsibilities in the areas of public policy and social action and as action-oriented practitioners become increasing aware that the findings of research can be put to good use in devising more effective programs."

The outside evaluator, evaluation team or consultant often brings new ideas, a fresh approach to a program. He is often hired for his superior ability to diagnose and identify problems and for his independent objective opinion as an outsider. He may also be an effective mediator where there is internal conflict.

Since, however, the inside evaluators (training director-staff-students) have the advantage of a detailed knowledge of their program, its resources and restraints, they have a distinct obligation to anvolve and inform the outside evaluator at each step of the operation beginning with initial planning. If this is not possible the staff should at least specify and reach agreement with the evaluator on the criteria by which they wish to be evaluated, so that useful information will be provided.

## System Model vs. Goal Attainment Model

In this section we would like to make a case for outside evaluation which does not simply assess the degree of success a program has in meeting objectives, sometimes called the "goal attainment" model, and argue for the "system model" which attempts to assess the degree to which an organization realizes its goal under a given set of conditions.<sup>1-4</sup>

For example an objective like "Each student will be able to isolate the political structure of an inner city community and design a plan for involvement of the community and power structure in providing information services" can be evaluated quite simply in terms of: Did each student design a plan, showing steps to take in obtaining political and community support? If only 4 of 20 students did this under the goal attainment model, the evaluator might well determine that the course failed to meet the objective. But under a system model the outside evaluator might with instructor students formulate several hypothete, or approaches as to how the power structure might be approached and techniques to use in designing a plan. If certain of the approaches fail, others are successful, the evaluator will have some useful data on which to base his evaluation, and field work modification.

As the above implies the training director should seek an outside evaluator or consultant with the ability to train staff in evaluative techniques and skills to help them develop their own expertise in internal planning evaluation.

### **Consider Pros and Cons**

When the outside evaluator is brought in only at the conclusion of a program, the staff should make certain that he takes unintended consequences, both positive and negative, into consideration. A professional evaluation is more than just an assessment of what happened. We are, in short, suggesting that training directors demand more of professional evaluators or consultants. It is obvious that to do this, training directors must themselves develop more expertise in the area of evaluation. The usefulness of the outside evaluator may be largely determined by the quantity and quality of data provided by the program staff.

An effectively managed training program will not rely on the evaluation team to provide solutions to problems; it will, however, expect the team to "ask the right questions," and to strengthen internal capabilities for improving evaluation methodology.

#### IX. Heuristics

During and at the conclusion of any training project, the director and his staff face two major questions "what have we accomplished?" and "what have we learned?" The answer to the first is determined by an examination of the data: the answer to the second, by reflection upon one's experiences. Contributions to our knowledge hase can result both from systematic inquiry and heuristic observation.

Heuristics are what has been learned by successive discovery action



research to guide future action. Heuristics are the mark of experience, not conflicting with formal preparation in theory and methodology, but somehow apart from it. Heuristic reasoning is plausible, yet lacking in rigorous proof. Often intuitively felt, heuristics are sometimes articulated and passed in oral tradition, as rules of thumb from one group to another.

Directors of training projects in tackling new problems, developing new curriculum, or developing new models are learning, through the crucible of experience, informal guideline principles. These are put to the test daily. We are suggesting that it is time this hard-won knowledge be acknowledged as "respectable" so that others can share and benefit from it. If each Director began to record this kind of knowledge, it could then be communicated to other professional colleagues concerned with similar problems. Ultimately, through this mutual sharing of tentative principles, a set of heuristics may be developed to serve as guides for all those involved in improving library services, media services, and learning systems.

Alice Rivlin, in assessing the success of evaluation in governmentally funded social action programs, points out that considerable progress has been made in identifying problems and in assessing impact on target groups, but very little progress has been made in comparing more effective programs with less effective programs. Kermit Gordon in the foreward to Rivlin's book states, "We are not likely to discover more effective ways until we conduct systematic experiments with different ways of delivering social services, and analyze the results." <sup>15</sup>

Systematic analysis and recording of results in a final report will not change the imperfect state of the art of evaluation in library training and programming, but it will provide a body of data for use by other training directors planners, so that success factors can be utilized in other training efforts, and tested as to viability in a different environment. We may thus avoid testing the same theories over and over again, with each project hailed as an innovative new technique.

Of probably greater long range significance is that the data be used to effect change in library education. The success of the federally funded library training program rests largely on the degree of impact it could have on library education and the library profession in general.

The preceding section asks library trainers to share their knowledge so that others may benefit. In this section and in the Appendix we are attempting to follow this advice by including three articles that are intended to be specific and thus helpful to persons who are in the process of adapting planning and evaluation theory to their particular situation.

All three authors have worked with librarians in a variety of training situations to improve long range planning and evaluation techniques in libraries. Dr. Hudspeth, Director of Educational Development, College of Pharmacy at Ohio State, worked with state agency staffs in an extended Title Ilb Institute on statewide library planning as did Dr. Eye and Dr. Walker. Ken Eye was a major presenter and consultant for two of the Leadership Training Institute workshop sessions in 1972-73.

X. Practical Applications

<sup>&</sup>lt;sup>13</sup>Michael P. Brooks, "The Community Program and Applied Research" in Readings in Evaluation Research. (Sage, New York, c1971), p. 60-61.

<sup>&</sup>lt;sup>14</sup>Herbert C. Schulberg and Frank Baker, "Program Evaluation Models and the Implementation of Research Findings", *Ibid.*, p. 77.

Alice M. Rivlin, Systematic Thinking for Social Action (Washington: Brookings Institution, 1971), p. viii.

# Delphi Forecasting for Long Range Library Planning

DeLayne R. Hudspeth

Long range library planning capability must increasingly be developed to enable librarians to identify the challenges which lie ahead, to develop a modern philosophical base upon which to justify operation and to prepare the profession for leadership in an age of rapid change.

The Delphi technique is a methodology which systematically uses intuition to plan for the future. It is a process for eliciting and refining the opinions of individuals derived from a series of "events" about plausible activities or occurrences in the future.

Originally, Delphi was used as a technological forecasting method to try to determine when and under what conditions certain kinds of technology would become viable. More recently, the Delphi technique has been used for social forecasting. Long range planning of this sort typically is less precise and involves "softer" variables than do intuitive judgments concerning technology and science. For long range library planning the Delphi is particularly appropriate when it is used in such a way that a variety of public segments can be tapped for their view of the future and the consensus, or lack thereof, with respect to their values and desire for library service.

Especially, as library resources grow tighter, the problems of growth must be considered in terms of comprehensive and long range considerations of library goals. Further, as libraries have moved into receiving federal funds and dollars from a variety of sources, they are being held increasingly accountable for the processes they use and the products they proclaim.

## Advantages of the Methodology

The Delphi forecasting technique is an iterative questionnaire designed to measure consensus with respect to plausible events of the future. There are

\* \*

several reasons why the Delphi technique is useful for library planning. Delphi allows library planners the luxury of some ambiguity while, at the same time, providing data about the degree of consensus with respect to library options. The nature of this consensus (in terms of "tight" agreement vs. very little agreement) supplies valuable information about a map of the future. Delphi offers librarians reasonably precise data (not to be confused with accuracy; only time can provide an answer as to whether a given judgment was accurate) and has certain additional advantages in its data collection format.

These advantages are two-fold. The first is that the questionnaire allows an expert to express an opinion in a threat-free environment. That is, it reduces the probability that polarity occurs because of face-to-face confrontation. As library operations grow more complex (e.g., TTY networks, computerized retrieval systems, new microform systems, etc.), it becomes increasingly important that members of these specialized support systems be able to provide this information about the future without polarizing opinions based on their specialty and their hope for ther own professional interests.

The second advantage is that Delphi is suited for displaying a wide range of events. Although specific links between singular events and a composite picture of the future are best done with techniques other than Delphi, this forecasting procedure nevertheless allows for a wide range of topics to be considered within some broad objective. Especially, with social forecasting, it is important that seemingly far-out events be considered within the construct of potential library utilization so that long range planning can include those synergy points which occur when new expectations arise (i.e., cable television microfilm) or when new social expectations develop (such as the Right-to-Read program).

In summary, the Delphi forecasting technique allows the library planner the option of dealing with futuristic events with a panel of "experts" to determine the degree of consensus about the plausibility of these events occurring in the future. Data collected with this instrument can include parameters of time, value, probable occurrence, price, technological feasibility, and almost any set of conditions for which experts can apply a numeric value.

### Disadvantage of Delphi

Although Delphi can provide some hueristic insights to the person or group administering the instrument, one major disadvantage must be pointed out. A Delphi forecast only provides consensus data concerning expert opinion with respect to a series of events, in some future time frame. The Delphi process does not in any way provide those logical or causal links concerning the relationship between the Delphi events (as the Delphi is traditionally used). Caution must be exercised in not anticipating that the data obtained can be plugged directly into the decision making process. Although the data can be useful in resource allocation, determining training probably best done with other procedures such as contextural mapping or even scenario writing.

### The Focus Delphi

Investigators using traditional Delphi studies have selected their "experts" using a variety of means. The number and quality of the author's publication is an index to his expertness. National reputation within their discipline is another index and is sometimes determined simply by telephoning other experts in the field and polling their opinions, thereby using similar experts as a panel of judges.

Especially in social forecasting, however, I argue that "expertness" might be determined by the role which an individual plays with respect to the system being considered. For example, there is no one more expert at being a patron in a library than a person who is a patron. If information provided by a typical patron is essential to long range library planning in that the patron can accept or reject a planned innovation, then it becomes extremely important that patrons provide data to long range planners. Similarly, if future planning involves federal funding, then it is logical that someone who knows and can intuit about federal funding procedures be used to forecast the future of those resources.

In short, we are usually concerned in futuristic planning with a system. A system can be viewed as having input, thruput, output and some suprastructure within which the system operates. People play different roles within a system and can provide the planner with essential data, based on their role, in terms of what if valued, what they will support, use, reject, etc. Differences between groups is extremely valuable planning data.

If the major function of the long range planning is to clearly explore alternatives to traditional library practice, then it is necessary to analyze the levels of consensus of groups within the system. Where traditional Delphi tends to force consensus, the Focus Delphi is typically used to discover where or where not consensus exists. Knowledge of the differences of opinion held by those with different roles within a system is valuable for the policy maker; identifying disagreements might lead to one kind of long range plan: identifying areas of agreement (all sectors having agreed as to when an event might occur and to its potential value) would lead to another kind of planning strategy. In short, where traditional Delphi attempts to use one panel of experts to arrive at the degree of consensus by which a given technological innovation will occur and when this technological innovation might impact on other events, the Focus Delphi tends to consider the complex nature of social forceasting and to measure the degree of consensus within and between the social system for the purpose of long range social planning.

### **Determining Events**

There are several ways in which events can be chosen for inclusion in the Delphi study. The first and most commonly used is that the panel of experts are invited to submit eight or ten "most plausible events in the future which impact upon libraries." Typically, this list of events is returned to the investigator, cut apart and sorted into logical topic areas. Typically, 12 to 15 topics will emerge from the concerns and interests of the experts. Either



topic pile and formatted into the Delphi questionnaire. composites of these events or representative statements are drawn from each

events which can be used in a Delphi. perform this search and determine a surprising number of future oriented Frequently, minimal training and relatively unsophisticated individuals can oriented criteria and compile events as represented in the literature. Another way of determining events is to search the literature using future

experts in the field are postulating concerning a reasonable state of affairs in significant difference between what the authors are purporting and which is insert his own events based on the function the Delphi is to serve. Ideally, both procedures are used and the results tabulated to see if there is a Under either condition, it is possible for the investigator to write and

simple estimates are called for in the first pass such as an estimate at some then the questionnaires are sent out for the first "pass." Typically, rather respondents from 60 to 90 minutes to adequately cover 40 to 50 events), numerical estimate as to the value of this event vis a-vis the individual, the level of probability as to when the event will occur, plus perhaps some institution or the profession. Once the events are edited and displayed (and usually it will take

whether they felt the "consequence" of an event to be desirable or if they desire. In addition, if their estimates were outside the interquartile participants on the second round with an invitation to change their prediction purpose of eliciting the consensus of the experts. The interquartile ranges or During the second round, participants could also be asked to state briefly range, they might be asked to state a reason for retaining their estimate. the date estimates from all responses could be tabulated and displayed to Once the data has been analyzed, the second round goes out for the

enhance or retard the accounts of the current events based on their addition, participants could be asked to state briefly what they might do to in terms of date estimates occur between the second and third rounds). In displayed and a similar reestimation solicited (typically, the most consensus functioning of a library operation. assessment of whether this event was valuable or detrimental to the In the third round, the interquartile ranges from round 2 could be

### Analysis of Data

number of guidelines can be used in examining the data obtained from Delphi forecast should be viewed as stimulus for long range planning. A impossible task with respect to future events. Instead, the data profiles from a Delphi, Essentially, these consists of the following: Deriving conclusions from data to "prove" a hypothesis, is obviously an

- 1. What is the time estimate? What is the relationship of this time estimate to precedent and antecedent events which relate to the
- 2. What is the degree of consensus within the total group (a narrow versus a wide spread of estimated dates)?

- 3. Is this consensus of the total group or are there significant differences within certain subgroups? Can these subgroups be viewed as advocates or decision makers for the event in question?
- 4. Both broadly and narrowly, what are the interrelationships of the event in question to other events? Do the data, including statements to enhance or retard an event, indicate that they will be an advocate group? Are the advocate group estimates tight or value assessments? broad with respect to time estimates, advocacy procedures and
- Has there been a significant shift in time estimates between the subgroup more amenable to discussion concerning their actions which might enhance or retard the development of a particular assessment and the forecast range of dates, is any particular first and third rounds of the Delphi? Viewed in light of the value

understand the broad gestalt of a rapidly moving world in order that decisions the secondary and tertiary effects. feasible so that when the time comes to make a set of decisions, these this broad base is to look at the plausible events which might impact upon and planning be made from the broadest base possible. One way to obtain increasing rapidity, it becomes absolutely essential that these planners could occur in the future. As decisions are thrust upon planners with himself into the minds of the people regarding a pattern of events which tightly structured instrument), as much as to let the library planner project provides information for a certain future (although this is possible with a decisions are made with respect not only to the primary consequences but to libraries and then through a series of forecasts examine the options which are The value of data collected with a procedure like the Delphi is not that it

successful?" make decisions based not only on the question "Will the operation succeed?" we are subject to exponential change, that is no longer possible. We must program and judge that program based upon its immediate consequences. As but on the much more important question "What happens if we are During ancient times (say, 50 years ago), it was possible to begin a

#### Summary

some event in the future and find themselves unable to rationally consider the pedagogical or "mind expanding" tool. Delphi can be of considerable utility instrument can be used both in terms of making decisions and as a instrument for obtaining consensus about events in the future. Data from this in developing afternatives for library planners so that they are not shocked by options thrust upon them in a rapidly changing world. The Delphi forecasting procedure is a very useful, relatively inexpensive

# **Twenty Evaluation Principles**

Ken Eye and Jerry Walker

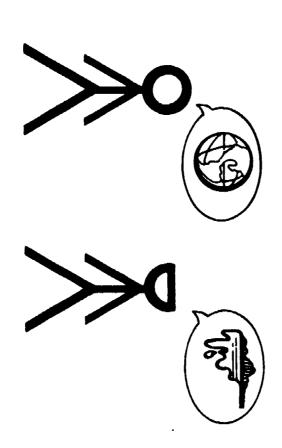
The following twenty general evaluation principles were developed by Dr. Jerry Walker and Dr. Ken Eye, both of the Ohio State University. The intent is to introduce a mind set for people applying, often for the first time, evaluation in the field. The principles are general guides to help the evaluator apply the notions of evaluation to situations specific... We have done the easy part... it is for you, the real experts, to apply the ideas to the real world. The twenty principles are separated into the four CIPP types of evaluation; however, there is no intention of "selling" the CIPP framework, for the concepts apply to other evaluation models as well. The illustrations are simple memory aids that Jerry and Ken use so we can "operationalize and implement the overarching conceptual frameworks" and other assorted jargon.

Thus, it must be kept in mind that the simple general principles apply to very complex processes designed to provide decision-making data to decision-makers. We have oversimplified, but have not misrepresented the content, yet we sometimes fear that the complexity of applying principles to the real world will be lost in our simple illustrations. We feel that to live out these principles will be difficult, sometimes risky, and if applied will result in a new breed of people attacking old problems in new ways to help create a better future. The authors are pragmatic idealists who have great faith in the ability and will of library people to work toward more viable alternative futures, and we offer these notions as a part of the mind-set necessary to create a better Tomorrow out of Now. For if we don't do it, who will?

## Context Evaluation Principles

- 1. Anomaly-A-normal; something ain't right. Evaluation is costly and difficult, thus use it first where the need is greatest, and if time and resources are available, apply it to lesser problem areas later.
- 2+2=3**Needs Evaluation Now**
- 2 + 2 = 3.5E-raluate Next
- 2 + 2 = 4**Evaluate Maybe Later**
- 2. Assumptions—Evaluators and decision-makers always have assumed expressed openly and understood by both the evaluators and the constraints and values that affect perceptions; the assumptions need to be are nearly always negative. done; and the consequences of conscious or unconscious hidden agendas decision-makers served; if this is not done consciously, it is unlikely to be

### Round/Flat Worlders

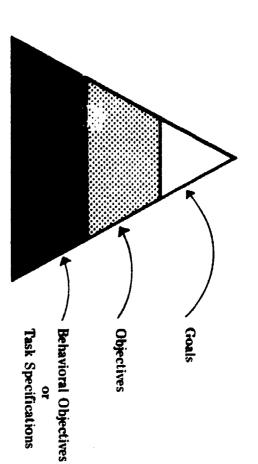


"Okay, How far?" "Let's go for a boat ride."

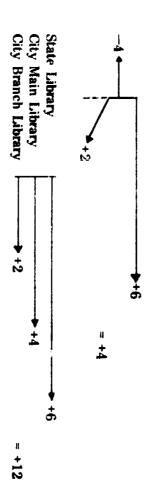
"Oh, as far as we can go."

3. Objectives # Goals-Objectives do not equal Goals, however, they are evidence of a high probability that Goals have been achieved, or at least Goals are value laden; thus, the accomplishment of Objectives is rational rationally related in a hierarchy. Objectives are finite and concrete, and approached to some degree.

## Goal and Objective Hierarchy



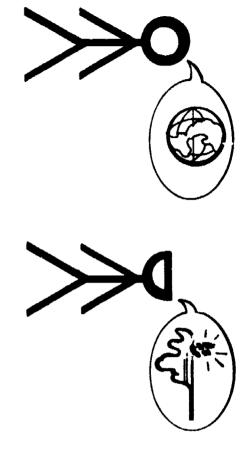
4. Compatible Ends-Overall system continuity is achieved or increased when purposes. The output of a system is the vector sum of the parts. the focus or efforts of all the system parts are directed toward common



5. No Irrational Decisions -For both evaluator and decision-maker "mental so carefully and objectively obtained by the evaluator may seemingly be rather, often other people have data we do not; thus, the evaluation data health", it should be assumed that people do not make irrational decisions, the final decision. ignored when in fact the decision-maker has other data that must control

#### Chris Columbus

### Helmsman

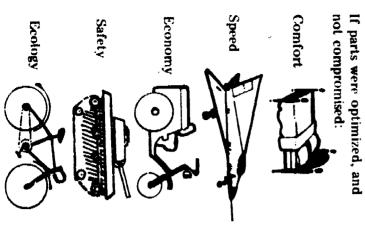


"Sail West."

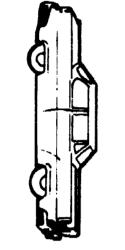
"But sir, my data ..."

## Input Evaluation Principles

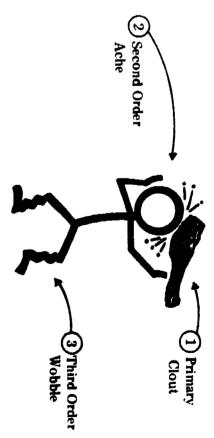
1. Suboptimization-This notion is that to optimize the overall system. each part must sub-optimize; the overall system will only reach its greatest when subsystems compromise. potential if all the parts reach less than theirs; thus, systems optimize only



System: **Total Optimized** 



2. Interactive—All parts of a system affect all other parts to some degree; any change in means or ends should be examined for second, third, etc. order effects.



3. Consider Alternatives—Systematic consideration and analysis of alternatives increases the chances of a "best" choice in the particular situation.

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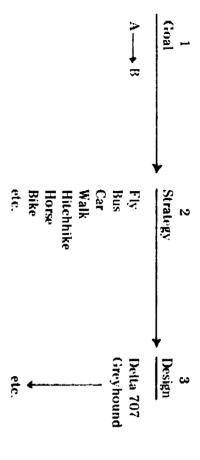
2) time3) politics

etc.

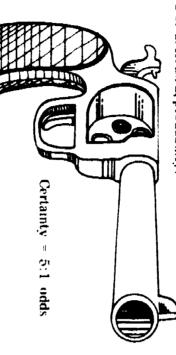
Rate on 1-5 scale

4. Strategy, then Design-Folks often begin to think in terms of low level design details before the overall strategy is fully considered; Think Goals, then Strategy, and then specific enabling Design; the three interactive,

thus, when a design is finally selected, one must re-cycle the process to insure the Design derived in fact supports the Strategy and Goals.

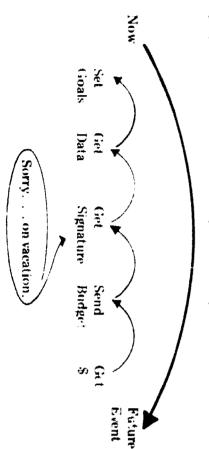


5. Probabalistic—Consider the universe to be based on probability rather than absolute truth and certainty; optimum actions do not guarantee, rather, they only increase the odds of success. Thus, our traditional concepts of truth and certainty must be translated into terms of high or low, or increased or decreased, probability.



## **Process Evaluation Principles**

1. Anticipate Antecedents—To reach a Goal one should ask, "what must come before that?", and then "Before that?" until the future event is projected back to now; that is, a pucker must preceed a kiss.



2. Timeliness—Evaluation data must get to decision makers in time to be useful; evaluators have no "morning after pill."



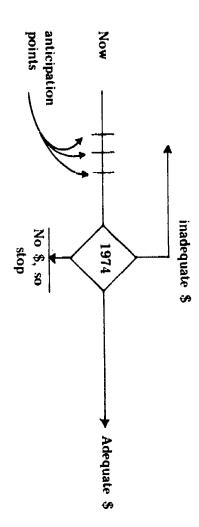
"But I'm only one minute late!"

3. Efficiency—Time and resources are limited, thus they must be used wisely. For example, relative to data collection, gather only that which will be used from as few sources as necessary to get reliable, valid, and timely data. Thus, ask the right sources the right questions at the right time in the right way as few times as possible.

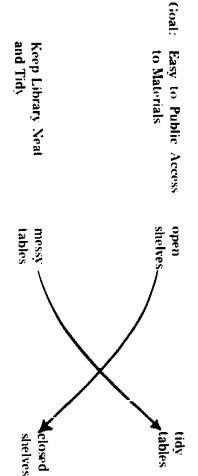
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4. Recycling Readiness: As decision points are approached, it is possible to get ready to decide, particularly if the decision to be made is clear cut and

the data leans heavily toward one alternative; or if the decision choice is not obvious one can begin to think about "what if?" relative to the expected choices. This process helps create a surprise free future; surprise birthday parties are more fun than surprise 50% staff cuts.

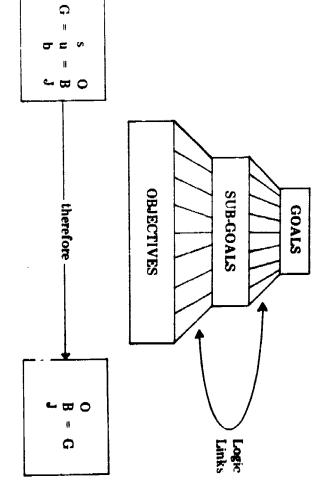


5. Goal Drift. Over a period of time initial Goals and even Objectives tend to drift as everday processes and pressures cloud our desired ends. For example, social goals or stated program ends often are shifted to a lower priority as re-funding becomes more critical, which then lessens the probability of the outcomes warranting being refunded: age old problem... money over what matters.

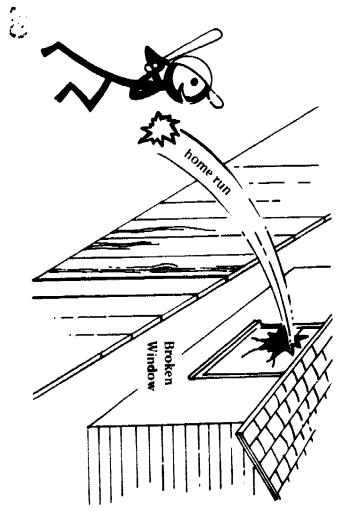


## **Product Evaluation Principles**

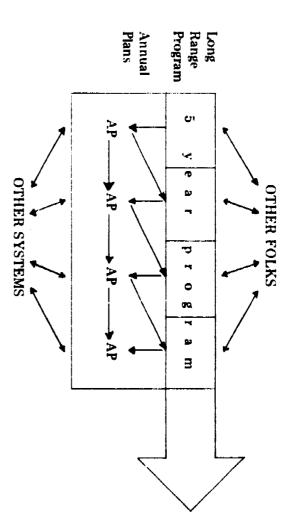
1. Logic Links The lines between levels in a Goal and Objective hierarchy are by definition logical. Thus, based on logic, one must accept that if the Objectives are met, the Goals are therefore to some degree met; further, the meeting of Objectives does not prove Goals have been met... only the probability of Goal attainment has been increased.



2. Consider All Consequences—Outcomes or any action should be analyzed for unintended consequences. For example, if an objective is to increase library use from 10% to 90% of the potential users, it might be necessary to increase the budget by 300%, and such a jump on a tax levy would likely result in defeat, and thereby jeopardize the ongoing program for the 10% plus potential new users for several years.



3. Share and Learn—Sharing has two dimensions: internal and external. First, what happens this year should be considered in next year's internal an rual plan. And other systems and people will profit by our success or failures if we will share data, and vis-a-vis. Secrecy perpetuates reinvention of the wheel, often with one flat side.

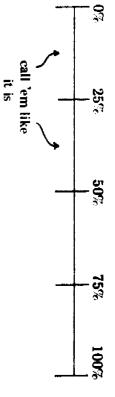


- Avoid Overkill—Too much or too complex data is inefficient, if not detrimental: use a =10 hook for a =10 fish, and a =2 hook for a =2 fish.
- 1) Simple Question:
- "Did literacy increase?"
- 2) Intermediate Question:
- "How much did each person change and at what rate?"
- 3) Complex Question:
- "What variables caused the most change?"

The statistical horsepower needed to answer question 3) is wasted if applied to question 1), and the data needed for question 1) will not adequately answer question 3).

5. There Are No Negative Findings—Data is a fact; it is neither good or bad, or positive or negative, until people apply value criteria. The evaluator should supply factual data upon which value judgements can then be made by decision-makers. Thus, if an objective is to increase night use of a library by 25%, the evaluator should report the facts, say the increase was 18% or 38%... it is for the decision-maker to decide if the finding reflects a positive or negative condition, for maybe a funding cut had happened and 18% is the best news since the printing press....

#### Increase



The above principles are guides to a mind set. They overlap and interact, and can be applied to management as well as evaluation tasks. And one of the great evaluation problems is clear-cut role definition, for few systems can afford a person to act only as an evaluator. In the real world you may wear evaluator, administrator, decision-maker, and worker hats at different times or sometimes simultaneously, and to confuse any one with another will confuse them all. Thus, do your best to separate the roles and functions as you go about gathering and processing data upon which you or others will base decisions. And in conclusion, it must be recognized that evaluation will neither lessen nor even simplify your decision-making tasks, nor will evaluation data provide absolute concrete answers; and it must never be forgotten that:

The Purpose of Evaluation Is Not to Prove But to Improve.

### **APPENDIX**

# **Project Process Monitoring System for Work Activities**

Ken Eye

This process monitoring feedback system is designed to provide process data feedback to a Project Director, Unit Heads and staff. The data is primarily quantitative, relative to time line adherance although the Monitor can ask quality questions if necessary. The system has several advantages: 1) simple operation, 2) keeps a sequential longitudinal process record, 3) requires little time to operate, 4) disseminates progress data simply to Project Directors, Unit Heads, and staff 5) no great technical skill is needed by the Monitor in the content area being monitored, and 7)the system projects short-range activities. In the large project that had several hundred scope of work activities being monitored in which the author developed, tested, and used the monitoring system, total staff time required, including typing, for each cycle varied from 4 to 8 hours; and Unit Head interview time was never more than 15 to 30 minutes, including coffee and chit-chat. Thus, the cost-benefit ratio is low.

The following will outline the sequence of monitoring activities referencing to sample monitoring forms at conclusion of article.

## Goals, Objectives and the Scope of Work

It is assumed the project has a written hierarchy of Goals and Objectives upon which a Scope of Work can be developed for each Objective. Written Goals and Objectives are not necessary to operate the nonitoring system, however, it seems rather pointless to closely monitor an activity for which the end product(s) or process(es) are not specified.

The Scope of Work is a statement of what activities will occur between what times relative to a specific Objective. The Scope of Work 1) should be as



detailed as necessary to reflect actual and realistic activity and time estimates, and 2) it should have slippage time built in to allow for unexpected delays, the amount depending on past experience.

Note that each Scope of Work item can be used to develop budget allocations to document expected and than actual costs. Also note that the Scope of Work items can be broken down further into an operational task analysis in which specific personnel and resource allocations can be specified. Thus, both the Project Director and the staff will have a guide for daily or weekly task assignments.

(See Sample 1 for a Goal, Objective, and Scope of Work.)

### Making the Forms

The first monitoring task is to make several forms. First, from the Scope of Work make a Master Scope of Work Time Line for the appropriate time span. It will be best to make up a blank Master from which copies can be made, and on the working copies put on the time line for each Scope of Work item. Then the filled in Master Scope of Work Line can be disseminated to all persons involved.

(See Sample 2 for a Master Scope of Work Time Line that has been filled in.)

The second monitoring task is to make scope of Work Monitoring Forms. Again, make a blank master from which copies can be made to fill in. It is important to note that a filled in Scope of Work Monitoring Form must be made for each page of the Scope of Work, and on the individual Monitoring Forms the Scope of Work activity number is placed in the left column of the Monitoring Form to correspond with the placement of the scope of work activity on the Scope of Work page. Thus, for each monitoring period there will be a Scope of Work Monitoring Form that may be placed side-by-side with each page of the project Scope of Work. . . the page-by-page item correspondence allows for fast and easy filling out of the Monitoring Forms and provides a simple means to file the data, which will be noted later.

(See Sample 3 for a Scope of Work Monitoring Form that corresponds to the sample Scope of Work in Sample 1.)

## **Preliminary Administrative Decisions**

The third step is for the Monitor or Evaluator, or the Project Director is he or she happens, to serve both functions, to decide which Scope of Work activities are to be monitored. In small projects all activities can be monitored, but in large projects only the important milestones need be monitored. For example, in the sample Scope of Work in Sample 1, the Project Director may choose to monitor activities 3–5, 7, 8, 9, and 11, or possibly only activities 5, 9, and 11 would be selected.

The fourth step is for the Project Director to specify how often the Scope of Work activities need to be monitored. The time span selected will depend on the ocerall span of the project, the criticalness of the activity being on

time, the turn around time necessary to make activity adjustments once feedback data is obtained, and the time and resources available for the monitoring task. Here it will be assumed that the time selected was the 15th of each month.

Once the monitoring activities and dates are specified, the fifth step is to note them on the Master Scope of Work Time Line... a check mark or "x" in red ink can be used to highlight the important activities and dates.

(See Sample 2, where activities have been identified with a check mark for the month of February.)

Once the decision is made the Project Director should alert the staff involved of when and how the process monitoring is to be carried out ... and it would be a good idea if staff members were in on as much of the decision-making as possible so folks would both feel a part of the operation and would know what to expect. And at this time each staff member should receive a filled in Master Scope of Work Time Line on which is noted the overall project monitoring scheduled from which each individual can note the items relevant to them. This keeps the whole staff informed of the work flow of other people and units, and shows how each task fits into the whole.

#### Doing It

The sixth step is the actual monitoring. First, the Monitor notes by circling the activity number on each page of the Scope of Work Monitoring Form the activities that are to be monitored; this data can be taken from the Master Scope of Work Time Line, going down the month column to note items checked for monitoring at any time during the month (See Sample 2, for the month of February.)

On the 15th of each month the monitor interviews each Unit Head or person designated to report. The interviewer places page by page the Scope of Work Monitoring Form beside the corresponding Scope of Work page and asks the following:

- 1. "Did you complete the work specified during the previous two weeks?"
- 2. "Did you begin work specified during the previous two weeks?"
- "Do you expect to complete the work specified during the next two weeks?"
- 4. "Do you expect to begin work specified during the next two weeks?"
- 5. "Have you started or completed, or expect to start, activities not specified in the Scope of Work?"
- 6. If any answers are "no" for questions 1-4 above, the monitor then asks: 1) for new dates, 2) for the reasons for the change, and 3) what are the expected consequences of the delay?
- All of the information is noted on the Scope of Work Monitoring Form
   by the monitor. This process is repeated page-by-page for each item to
   be monitored.
- 8. At this time the Unit Head can relay to the Project Director, or vis-a-vis, any other information about needs, opportunities, or problems that



bear on the Scope of Work, and the Monitor can include this data in his or her report to the Project Director.

(See Sample 4, for a fill-d in Monitoring Form for the month of February, 1974.)

There are other strategies for gathering the data. For example, each Unit Head could be given the Monitoring Forms to be filled out and returned to the Project Director or Monitor on the 15th of each month or the Unit head could receive several months supply of Monitoring Forms to be submitted on the 15th of the month. However, the interview strategy is most likely to produce data on time every time, and data analysis is easier if only one person does the recording... usually a person can read his or her own writing, and typing is not necessary.

## **Data Analysis and Reporting**

The seventh step is for the monitor to analyze the collected data. In so doing a number of tasks need be done: First, using a colored line, a progress line is drawn in on the Master Scope of Work Time Line to represent the progress data reported for each Scope of Work activity.

(See Sample 5, for a filled in Master Scope of Work Time Line for the month of February, 1971.)

Second, the Monitor notes critical activities that are not on time and that will disrupt the project work flow.

Third, the monitor files each page of the Scope of Work Monitoring Form behind the corresponding page of the Scope of Work in a master file. As this process is repeated monthly a longitudinal record of the work flow will be compiled for each item in the overall project Scope of Work.

Fourth, the monitor gives the Projector Director 1) a copy of the up-to-date Master Scope of Work Time Line with the progress line drawn in 2) a report of items likely to disrupt the work flow, and 3) possibly makes recommendations of how personnel or other resources can be reallocated to belp make up for the noted discrepancies... this report also can be filed with each unit's Scope of Work, or it can be filed separately in a cummulative report file.

#### And Then . .

The entire process is repeated periodically or as often as needed, for in critical times the monitoring schedule can be moved up to daily, weekly, or bi-monthly without disrupting the monitoring system.

A Master Scope of Work Time Line can be centrally posted to inform all staff members of project progress... this tends to keep individual units from losing sight of where they fit in to the overall effort. Also, it is always possible to revise the project Scope of Work and the Master Scope of Work Time Line in keeping with changes that may occur, for if one unit falls

behind it will possibly effect some or all of the other units unless corrective action is or can be taken.

There are a variety of ways the monitoring data can be used. First, the Project Director will be informed about overall or individual unit work flow; second, the Project Director can reallocate personnel and other resources to adjust work flow; third, the Unit Heads can be kept informed of how they are progressing relative to the overall effect by having the up-to-date Master Scope of Work Time Line posted centrally, or they may monthly receive a copy of the report that the Monitor gives to the Project Director; fourth, the longitudinal data can be a source for reporting Scope of Work changes to funding sources such as the federal government come quarterly report or refunding proposal time; and fifth, the data provides a historical process record should the effort be transported to be replicated by staff at another site.

### A Philosophical PS

It is important that the monitoring process be open and non-threatening to staff members; thus, the style of administration of the Project Director is critical. The data should not be used as a basis for personnel assessment, for that would severely limit staff willingness to report delays... for the purpose of the feedback system is to give on-line process data to correct process discrepancies quickly so that competent people can do a good job better. The purpose of the process evaluation feedback system is not to proce, but to improve.

#### 1. Sample Goal, Objective, and Scope of Work

GOAL 1: To develop an evaluation training package for new Project Directors.

**OBJECTIVE 1:** To conduct an initial field test of the prototype training package.

#### SCOPE OF WORK

	Activities	Start	Complete
1.	Identify 5 experienced Project Directors	1-1-74	1-5-74
2.	Identify 5 new Project Directors	1-1-74	1-5-74
<b>3</b> .	Telephone the 10 Project Directors (1 & 2 above) to get their cooperation	1-8-74	1-9-74
4.	Develop field test directions letter and reproduce 15 sets of materials	1-8-74	1-10-74
5.	Mail materials to the 10 Project Directors	1-11-74	1-11-74
<b>₩</b> 6.	Make follow-up telephone calls to 10 Project Directors	1-19-74	1-19-74
7.	Analyze field test returns	1-23-74	1-27-74
8.	Rewrite training materials package	1-30-74	2-28-74
9.	Conduct second field test if necessary,	3-1-74	4-21-74
10.	(Etc. for other activities)	1-10-74	6-30-74
11.	(Etc. for other activities)	2-15-74	9-15-74

## MASTER SCOPE OF WORK TIME LINE - 1974

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### 3. Sample Scope of Work Monitoring Form

Goal 1 Objective 1 SCOPE OF WORK MONITORING FORM: January 1, 1974—December 31, 1974

Monitoring Date

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### Sample filled in Scope of Work Monitoring Form for the month of February, 1974 4.

Goal 1 Objective 1 SCOPE OF WORK MONITORING FORM: January 1, 1974-December 31, 1974

Monitoring Date\_\_\_\_\_

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Sample filled in Master Scope of Work Time Line for the month of February, 1974

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# MASTER SCOPE OF WORK TIME LINE - 1974

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Forms and Guides Now in Use at Library Schools and Training Institutes

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### CASE WESTERN RESERVE UNIVERSITY

### School of Library Science

### Field Work Evaluation

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nships with staff and with users of the service—	
dability, responsibility, reliability—	
dability, responsibility, remaining	



### **Urban Services Program**

### School of Library Science

### Case Western Reserve University

### Field Work Guidelines

I. The main purposes of the student's field experience are to enable him to observe and learn:

the general as well as the unique characteristics of this community;

the information and service sources and needs of this community, including the library;

the way in which a special project based on the student's knowledge of II and III can enhance both library and agency effectiveness

### . Community profile

- A. We hope the student will have an opportunity to:
  - 1. review existing community studies
  - 2. study census and other demographic data
  - 3. identify agencies and services
  - 4. become acquainted with schools
  - 5. learn other sources of contact and information
- B. "hat community planning/problem-solving groups and/or problematic social situation can the student staff, co-staff or or observe on a regular basis?
- C. Can there be other learning opportunities for the student such as orientation, staff meetings, contact with other community welfare agencies or groups, contacts with individuals, contact with other institutional groups or representatives, study or research projects?

### III. Role and Performance as a student

- A. Ability to look at one's own performance objectively
- B. Reference to professional reading and class discussion
- C. Promptness and other indications of self-discipline
- D. Careful preparation of roles for discussion and review

### IV. Professional potential

- A. Interest in and empathy with individuals
- B. Understanding and support of community goals
- C. Imaginative grasp of opportunities—and limitations—of professional role in community

### NOTE:

A checklist based on the above guidelines will be prepared for use in evaluation of the field experience.



### School of Library Science CASE WESTERN RESERVE UNIVERSITY

Supplementary Field Work Guidelines — Spring, 1973

From February through May, 1973, the Seminar in Modern Urban Library Service is devoted to the role of librarian as educator. It deals with the planning, implementing, and evaluation of educational programs involving children, young adults and adults. By "educational programs" we are speaking of a very broad range of activities—formal and informal—which have an educative goal.

Since the seminar and the field work are intended to be complementary, it is hoped that students will have the opportunity to expand their experience in educational activities. To the extent that it is possible for the particular library or agency, the following experiences would be desirable:

- 1. Participating in planning meetings on the development of educational programs
  - a. with staff.
  - b. with community groups and/or potential program participants.
- 2. Observing a variety of educational program sessions.
- 3. Planning and implementing a program.
- 4. Evaluating a program and/or participating in evaluating meetings.



FLORIDA STATE UNIVERSITY SCHOOL OF LIBRARY SCIENCE

Faculty Comments: This is actually a two way form—can be used, with slight modification, by student intern as well as field supervisor. For this program, interns also keep brief diaries of their work experience. This decreases the possibility of overlooking problems/opportunities to be discussed during on-site visits.

### INTERNSHIP EVALUATION

Intern:Last_Name		Name	<del> </del>	
Directing Librarian:		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
Principal:				
School:	A	ddress:		
PERSONAL A	ND PROFESSIONAL Q	UALITIES AFFECTING	G SUCCESS	
Key to Evaluation: 1. Inadequate 5. Superior N.O. (Not observed)	2. Some success, but	needs improvement	3. Average 4. At	oove average
Personal:	1.	Strengths of the interr	•	
Adaptability	**	oreigns of the man	<u>:</u>	
Appearance Voice usage				
English usage				
Enthusiasm	2	Criticisms, suggestions		
Initiative	۷.	Criticisms, suggestions	, recommendations	
Rapport Attitude toward criticism				
Sense of humor				
Cultural resources				
Poise, self-confidence	3.	Strengths of program	planned for intern	
Professional:				
Technical knowledge				
Knowledge of materials				
Supervision of assistants	4.	Criticisms, suggestions	, recommendations	
Assistance of faculty		for the program.		
Instruction in library usage				
Curriculum development Over-all school planning				
Awareness of objectives of the				
library in school				
Ability to lead in library improvement in school				
Ability to interest pupils in				
library materials and to				
work with them				
Potential				
Evaluator:		Check one:	Preliminary	•



FLORIDA STATE UNIVERSITY
STUDENT INSTRUCTIONAL RATING SYSTEM FORM (REVISED)

<b></b>	-
(Adapted from Michigan State University SIR	3 Form)

	(Adapted from Michigan State University SIRS For						
Instru	ctor Course No Section Qua		W Sp :		19	<del></del>	
	DIRECTIONS	KEY					
acteri the c	esponse items as well as additional comments. With a soft lead pencil respond. D. If you dis-		ne stater e nor di n the sta	ment Nagree stement	,	n <b>†</b>	
		_					
	instructor was enthusiastic when presenting course-material			<b>A</b>	M	Ð	\$0
	instructor seemed to be interested in teaching			<b>A</b> '	Ħ	Ð	80
	instructor's use of examples or personal experiences helped to get points across in class 📖			A	N	<b>D</b>	<b>\$</b> 0
	instructor seemed to be concerned with whether the students learned the material			A	14	O	20
	were interested in learning the course material			*	14.	· D	30
You	were generally attentive in class	6	SA	<b>A</b> .	N	<b>D</b> :	30
	felt this course challenged you intellectually			A.	NE :	G.	\$0
You	have become more competent in this area due to this course	8	SA.	<b>A</b>	N.	B	SO.
The	instructor encouraged students to express opinions	9	SA	- 🛦	N	.0.	<b>S</b> O
The	instructor appeared receptive to new ideas and other siviewpoints	10	\$A	<b>A</b> *-	*N:-	- <b>D</b> -	80
The	student had an opportunity to ask questions	11	\$A	A	- <b>14</b> - :	D	<b>S</b> D
The	instructor generally stimulated class discussion	12	• <b>\$</b> A	<b>A</b> . 1	N	0	<b>S</b> O:
	instructor attempted to cover too much material			<b>A</b> :	N :		<b>3</b> D
The	instructor generally presented material too rapidly	14	SA	<b>A</b> .	N:	Đ	80
the i	homework assignments were toolt me consuming relative to their contribution to your irstanding of the course material	15	\$A.	<b>.</b>	RF.	D.	\$0
ипає Уоц	rstanding of the Course material generally found the coverage of the topics in the assigned readings too difficult	16	\$A	<b>A</b> .	N	D	80
	instructor appeared to relate the course concepts in a systematic manner			<b>A</b> .	74	Ð.	50
	course was well organized			.3	. <b>19</b> .	O.	<b>\$</b> D
	course materials appeared to be presented in logical content units			<b>A</b> ¹:	. P4. ·	<b>D</b> ::	50
	direction of the course was adequately outlined			• дт.	N	D: ·	30
	course made a significant contribution to your overall personal educational objectives				. N	•	-\$0
Wha (a) n	t percentage of the course material covered do you feet you actually learner? here than 90% (b) about 80% (c) about 70% (d) about 60% (e) less than 60%.  JOENT BACKGROUND: select the most appropriate alternative	22	. A.	8:	¢	Ð	ŧ
	sthis course required in your degree program?	23	. Yes	No			
	you a major in the area in which this course is being taught?			No:			
	s this course recommended to you by another student?		5. Yes				
	many other courses have you had in this department? (a) none (b) 1-2 (c) 3-4 (d) 5-6 (e) 7 or more	26	). <sub>(A:T</sub>	8	¢.	•	4
	at is your overall GPA? (a) 2.2 or less (b) 2.3-2.5 (c) 2.6-2.9 (d) 3.0-3.3 (e) 3.4-4.0				: 6::	- 5	
	at grade do you expect to receive in this course?				æ:		·#:
OP	TIONAL ITEMS: by the instructor Do not overprint in this area	<del></del> +					
				3.	3	4	:5 :
		2	2 .1	.2	3	4 :	-5
				<b>.2</b>	3:	.4	. 5
	1	4	1 <u></u>	4	-3:	. 4:	: 182
		5	5. ·· <b>1</b> ::	::2::	3	.4	. 43.
		<i>6</i>	3 :4 ·	. 3: -	3:	. 4 -	• •
		7	7 .1	. 2.:	3	4	: 5
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	,	10	0 :12	:2::	:3::	:4::	: 5
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s inetringi	aked the <b>least</b> about this c				•
<b>C</b> Additional	comments and adaptestions	· ·			
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and the analysis of the state o				· · · · · · · · · · · · · · · · · · ·	
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### Feedback Sheet

		Yes	No	Comments
1.	Were you given a definite job assignment?			
2.	Do you know what was expected of you this week?			
3.	Were the assignments that you were given meaningful to you?			
4.	Were your assignments professional?			
<b>5</b> .	Did the activities seem well planned?			
6.	Were the week's activities overly- structured?			
7.	Was the area coordinator helpful?			
8.	Do you think that the area coordinator was sensitive to your needs?			
9.	Were conferences held with the coordinator?			
10.	Were other members of the staff helpful?			
11.	Were work conditions (facilities, etc.) satisfactory?			
12.	Do you understand the goals of this week's activities?			
13.	Do you think that these goals were achieved?			
14.	Was the schedule satisfactory?			
15.	Do you recommend that the activities be repeated for other interns?			
16.	Was the seminar meaningful?			
17.	Was the field trip meaningful?			
18.	Do you think that a concentrated period in this particular subject area was necessary?			
19.	Are the goals of the concentrated program clear to you?			



### INSTITUTE ON THE SELECTION, ORGANIZATION, AND USE OF MATERIALS BY AND ABOUT THE NEGRO

Fisk University Library June 15 - July 24, 1970

### Assignments for Evaluation of the Institute

The twenty-five participants are asked to evaluate the full organization and operation of the Institute on the Selection, Organization, and Use of Materials By and About the Negro. The participants have been divided into five groups consisting of five persons each. The chairman of each group represents a library in which some of the major research resources on the black man are found.

Each group will be responsible for evaluating the sessions for the weeks indicated, for example, Group I will evaluate the sessions for the first week. The chairman of each group will serve as recorder for the group. Written, evaluative reports should be submitted to the Director of the Institute on the Monday morning following the week of the group's evaluation. Group V will be responsible for evaluating sessions of the last two weeks of the Institute.

The chairman of each group will serve as members of the final Evaluative Committee for the entire Institute. This committee should appoint its own chairman. Suggestions, criticisms and comments given in the reports of the five evaluation committees, including any remarks that the participants may wish to add, should be considered. The report from this committee should be given orally on the morning of the last day of the Institute, July 24, and should be presented to the Director in written form.



# COURSE EVALUATION INVENTORY

University of Indiana

you for your co-operation.	Please be frank and objective in your responses. Omit irrelevant items. Thank	Course;
•	tive in your responses.	Instructor
	Omit irrelevant items. 7	Date:
	Thank	

- = Student Self-Evaluation
- 1. The amount of work I did for this course was

very great 1 2 3 4 5 quite small

The quality of my work for this course was

excellent 1 S ಬ 4 J poor

3. My contribution to the class as a whole was

I learned from this course

excellent 1 2 very much 1 2 3 4 5 ىي ţ٦ very little

25.

On the back of this sheet, write your evaluation of your own partivery useful 1 2 3 4 5 useless

5. The subject matter, methods, or skills learned will be

- ġ cipation and involvement in the work of this course.
- **=** Instructor
- The instructor's knowledge of the subject was

excellent 1 2 ယ 4 ij poor

The instructor expressed his ideas clearly

atways 3 ىن 4 ೮ never

He avoided confusing or useless jargon always 1 2 ىن Ç never

:0

10. His speaking ability (enunciation, volume, etc.) was 1 2 ىن ھ ت poor

- excellent
- His treatment of students was

12. The instructor was

courteous 1 2 ىئ 4 ÇT discourteous

13. He was aware of students' needs and difficulties

over confident 1 2 3

4

ŗ

too unsure

3<del>4</del>

35

always 1 2 3 4 Ü never

14. He was able to alleviate students' difficulties

always 6 ౮ never

15. He encouraged students to work independently

16. His reaction to differences of opinion was

17. On the back of this sheet, indicate your opinions about the instructor of the course.

## Ħ. Organization of classroom proceedings

18. The instructor was well-prepared

19. The basic concepts were clear and logically developed always 1 2 3 4 5 never

21. The lectures were 20. The class was dominated too-teacher 13 ىن 4 ٥٦ dominated too student-

The lectures were stimulating 1 بن 4 ŗ boring

<u>22</u>

23. The discussions were a waste of time informative 10 بن ÇŢ wasteful

24. The committee/lab work was a waste of always always time 1 2 يث بن <u>.</u>\_ 4. ت J never never

The instructor covered the material too quickly -14 Ç +-J too slowly

27. The class was most interesting at the His coverage of material was too superficial beginning <u>\_\_</u> \_ N 6 ىن جي 4-4 ౮ ال too technical

### ₹. Requirements

The text, with respect to course objectives, was

29. The text was too difficult relevant \_ 1 2 3 N ట <u>ئ</u> ن 4 Ç too elementary irrelevant

30. Reference materials were useful always 19 4

ڻر

The assignments were clear The text was up-to-date 10 ىن 4 Ç outdated

**32**,

ين نن

<u>3</u>1.

The number of assignments was always 2 4 Ç never

The assignments were too great 6 ىن 4 တ too small

The assignments were necessary (not busywork) too difficult s.vente 1 2 3 4 5 1 2 3 ت too simple

### < Evaluation

<u>36</u>. There was sufficient time for preparation for exams papers 1 2 3 4 5

The criteria for grading were clear in advance -2 ىن 5 never

Ö

# continuation of Course Evaluation Inventory Form

38. The concepts emphasized on exams/papers were relevant

**39**. The number of exams/papers was

too great 1 2 3 4 5 too small

40. The exams/papers were

too long \_ 0 3 4 5 too short

41. The exams/papers were

too difficult 0 5 too simple

42. The instructor graded fairly always N

The instructor returned papers promptly always 1 1 2 3 4 5 never

<u>\$</u>

Content

44. The subject matter was intellectually stimulating

45. The subject matter was

46. The course should be given to students who are

more advanced 1 2 3 4 5 less advanced

47. Considering the credit-hours, the work required should be.

This course should be

I would like to take another course in this subject area definitely 1 2 3 4 5 definitely not

49.

**48**.

50. Please write specific suggestions for improving the course, student participation and involvement, or instructor on this sheet.

			١
-	•		
	٠	•	
	-		

### INDIANA UNIVERSITY Student Evaluation of Instruction

Depa	rt	m	€,	nl	l						
Cours	æ,		iı	ın	nl	æ	r				
Date											

### 1. EVALUATION OF INSTRUCTION

Please carefully evaluate the effectiveness of the teacher of this course. Place an "x" in ONE of the blanks under each of the major categories. (Comments may be extended to the other side of the sheet.

KNOWLEDGE OF SUBJECT MATTER  Exceedingly well informed  Adequately informed  Not well informed  Very poorly informed	Comment
ATTITUDE TOWARD SUBJECT Enthusiastic, enjoys teaching subject Rather interested Only routine interest displayed Uninterested	Comment
ABILITY TO EXPLAIN  Explanations clear and to the point  Explanations usually adequate  Explanations often inadequate  Explanations absent or totally inadequate	Comment
SPEAKING ABILITY  Voice and demeanor excellent  Adequate or average  Poor speaking distracting  Poor speaking a serious handicap	Comment
ATTITUDE TOWARD STUDENTS  Sympathetic, helpful, concerned Usually helpful and sympathetic Avoids individual contact, routine attitude Distant, cold, aloof	Comment
PERSONALITY	Comment better
TOLERANCE TO DISAGREEMENT  Encourages and values reasonable disagreement  Accepts disagreement fairly well  Discourages disagreement  Dogmatic, intolerant of disagreement	Comment
COMPARED TO ALL COLLEGE INSTRUCTORS YOU INSTRUCTOR AS A TEACHER?  Outstanding	HAVE HAD, HOW WOULD YOU RATE THIS
IF YOU COULD CHOOSE BETWEEN THIS INSTRUCTOR A YOU RATE YOUR PRESENT INSTRUCTOR?  Would prefer him/her to most teachers I have ha Would be very pleased to have him/her again.  Would be satisfied to have him/her again.  Would rather not have him/her again under any circum	d at 1.U.
THE REVERSE SIDE OF THIS SHEET MAY BE USED FOR	R FURTHER GENERAL COMMENTS
Do not sign name. Please indicate class standing	Approximate accumulative average
Major subject	uhhraumen erammenta erriebe



### UNIVERSITY OF INDIANA

Please evaluate this particular section of this course.

ORGANIZATION OF THE COURSE	Comment
Adequate, but could be better	
Inadequate organization detracts	
Confused and unsystematic	
ORGANIZATION OF DAILY LECTURES (OR CLASS WORK)	Comment
Well organized in meaningful sequence	
Usually organized	
Organization not too apparent	
Little or no organization	
FREQUENCY OF TESTS	Comment
Right number, well timed	
Too infrequent	
Too frequent	
Timing should be improved	
CONTENT OF TESTS	Comment
Satisfactory	
Too detailed	
Not comprehensive enough	
Wrong type of test for this course	
OPPORTUNITY FOR QUESTION AND DISCUSSION	Comment
Ample opportunity	
Occasional opportunate	
Rare opportunity	
Never	
ASSIGNMENTS	Comment
Assignments clear and reasonable	
Clear but too long	
Unclear	
Always unclear and unreasonable	
TEXTBOOKS	Comment
Textbooks good	
Textbooks satisfactory	
Use of text should be modified .	
Urge a different text altogether	
	Comment
Work suited to class level	
Attempt made to suit class level	
Work completely above class level	
Work completely below class level	
ON THE REVERSE SIDE OF THIS SHEET PLEASE MAKE SUC	GGESTIONS FOR IMPROVING THIS COURSE.
Do not sign name. Please indicate class standing	
Maior subject	

University of New Hampshire Merrimack Valley Branch

STUDENT EVALUATION FORM 101A
(To be filled out by supervising librarian at end of first 15 week work period)
NAME OF LIBRARY
NAME OF SUPERVISING LIBRARIAN (S)
NAME OF STUDENT
Would you kindly comment on the following areas of student performance as a trainee from the Libral Institute during his work period at your library?)  Please use additional paper as needed.
1. Suitability for library work: (temperament, attitude, interest etc.)
2. Readiness to learn, adjustment to work environment, eagerness to try, etc.
3. Ability to learn: are there tasks for which the student seems more fitted than others? i.e. direct service to public, typing, cataloging support, book processing etc.
4. Your comments concerning student:

### NEW CAREERS JOB SITE EVALUATION

C— Accepts work assignments and cooperates with supervisor	B— Accepts directions (from supervisor)	WORK PATTERNS  A— (Ability to work with peers)	PUNCTUALITY (Arrives on time)	ATTENDANCE (Attends work site)	Name: Job Site:
Readily Just accepts it Accepts with reluctance Puts up an argument	Very poor Very good Good Fair Poor	Very good Good Fair Poor	Regularly Most of the Time Irregularly Frequently late	Regularly Most of the Time Irregularly Frequently Absent	Class:
Does Careerist show potential for supervising (Pages, NYC'rs, other clerks)	PERSONAL (Appearance and grooming)	G— Interest	F— Quality of work (considering experience and training)	E Initiative	D— Completer work assigned (follow through)
Very much Some Haven't had any opportunity to exercise	Good Satisfactory Needs improvement Poor	Poor Very good Good Average Poor	Excellent Very good Good Average	Excellent Good Fair Poor	Regularly on time Mostly on time Often late Unsatisfactory

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				Arizona State University
Name		Seme	ster	
		Year .		
		Y TRAINING INSTITENT PROJECT REPO		
Describe briefly the natur	e of the project you will	l be working on this seme	ster.	
Where will you <b>b</b> e doing y	our project work?			
Approximately how much (Hours/week; hours/s	n time will you devote a emester; days/semester)			
Please give the name, title	, and address of the per	son who will supervise yo	ur project work.	
Director's Comments: We The attached form assure request the supervisor of respects a more valid asse	es us that the student he the project to evaluate	as identified a suitable p the participant's perform	roject. At the concl nance on the job. Th	usion of the semester w his information is in man



### INDIAN INSTITUTE - LIBRARY MEDIA TRAINING

	MOIAN MOTHOTE DIBITALL MEDIA TRAINING	
EV	ALUATION QUESTIONNAIRE	MAY 1972
Par	rticipant:	
Int	erviewer:	
I.	Academic Plans	
1.	Do you want to come back to school next year?	
2.	Do you think you will have a 2.0 grade point average at the end of this semester?	
3.	If you don't have a 2.0 CPA, what might you do differently next year to remove deficienc up?	ies and get your average
II.	Evaluation of 1971-1972 Institute	
1.	What has the Institute done this year that has been enjoyable or helpful to you?	
2.	How should we change the Institute next year to make it more enjoyable or more helpful to	you or others?
3.	What additional activities would you like to see next year:	
	(a) in the regularly scheduled meetings?	
	(b) in internship experiences?	
	(c) other kinds of activities?	
Di	rector's Comments:	
At eva	the end of the year we conduct a debriefing interview with each participant. The participants aluation have been particularly rich in ideas for improving the quality of our program.	' suggestions during this
	•	•
	•	

### Indian Library Media Institute

	ingian Lib	rary Media ilisti	iute	
Progress Report:				
Name			Date	
<ol> <li>Have you missed any classes since o How many? Reason for absence?</li> </ol>	our last meeting?			
2. Do you have any specific problems Describe the problem:	with any of you	ir courses?		
3. Have you had any tests or written a Did you have difficulties on tests or				
4. Are you registered with E.O.P.?  How many times have you sought I	E.O.P. tutoring s	ince our last meeti	ng?	
5. Have you received any grades or tes	st results since o	ur last meeting?		
Subjects:		Grades:		
6. Have you worked on an internship Describe your activity?	project since ou	r last meeting?		
7. Do you have any other problems th	nat should be cal	lled to the attentio	n of the staff?	
	•			



### **ARIZONA STATE** UNIVERSITY

TEMPE, ARIZONA 85281

**EDUCATIONAL TECHNOLOGY** PAYNE HALL B-146

### **MEMORANDUM**

TO:

Dr. Sullivan, Mr. Crawford, Dr. Gerlach, Mr. St. Germaine,

Ms. Burger

FROM:

Norman Higgins

SUBJECT: Summary of Participants' Meeting, September 14, 1972

DATE:

September 15, 1972

Staff attending: Norman Higgins, Carole Burger, Ellen Martin.

Indian Advisory "oard attending: Bill DeHaas

ning: Irma Barehand, Nellie Buffalomeat, Rita Ann DeHaas, Delpha Delaware, Debbie Drye, Helene Participants : Little, Stv Life, Frances Makil, Verna Masayesva, Theresa Savale, Lydia Whitey, James Winship, Joycelyn Smith.

The agenda for the meeting was outlined by Dr. Higgins. Suggestions for additions to the agenda were made by participants.

Stipends. Dr. Higgins reviewed participant standing for dependent stipends. There was a general discussion concerning pay periods. Debbie Drye expressed concern for the January pay period and it was explained that the total stipend amount is set, but that participants could elect a different time/amount pay period. There was a general discussion. The participants voted to continue with the same pay schedule.

Ly dia Whitey suggested that the BIA might be able to hire a few participants during semester break, Mr. Cleo Crawford will be asked to explore this possibility and report to the group as soon as possible.

Summer was discussed. Dr. Higgins outlined a proposed project for paid internships during summer.

Tutoring. Bill DeHaas stated that a delay in a computer print-out listing students enrolled at ASU has delayed the start of the Indian Tutorial Program. Bill announced that students in Secondary Education, SS310, will work as tutors as part of their course requirements. The English Department will also provide tutoring service. Ms. Burger is working through the Dean's office to obtain a room for tutoring activities.

Internships: Projects for internships were discussed. Dr. Higgins stressed that student interest, and projects of an educational nature, are the primary considerations in selecting an internship experience.

Ellen Martin described the Material Evaluations project. The main objective is to see that materials used in schools accurately depicts Indians and their way of life.

Mary Ausman, director of the Instructional Resources Laboratory in Payne, was introduced by Dr. Higgins. The development of a picture file to be used by the IRL was suggested as a project. Mary announced that the IRL is open from 8:00 a.m. to 7:30 p.m. on Monday and Tuesday, and is open from 8:00 a.m. to 5:00 p.m. on Wednesday, Thursday, and Friday.



Bill DeHaas discussed the Indian Student Affairs work-study and counseling project.

Invited Guests: Dr. Higgins announced that travel pay and honorarium funds to \$500.00 are available for guest speakers. Dr. Higgins emphasized the following order of priority for inviting speakers:

- 1) a library-media person
- 2) an educator
- 3) an Indian speaker

Nellie Buffalomeat suggested Vine Deloria, writer, as one possible speaker.

Future Meetings: Dr. Higgins and for any suggestions for meeting activities. An interest in learning to operate AV equipment was expressed. It was suggested that photo-copying might be demonstrated. Another activity suggestion was that of visiting Hayden Library and seeing the Curtis Collection. It was also suggested that general photographic skills be taught.

The next meeting of the staff and participants is scheduled for 4:00 p.m. Thursday, September, 28, 1972.

### **Director's Comments:**

We hold participants' meetings every two weeks. Each meeting is documented with the attached report.

These reports are distributed to: (a) participants who are unable to attend our meetings; (b) Co-director of the project; (c) local BIA area officer; (d) Chairman of University Indian Advisory Board; (e) Graduate assistant assigned to advise and counsel students.

These reports document the developments and changes in our institute.



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## Glossary of Terms

ACCOUNTABILITY—The process of explaining the utilization of resources in terms of their contribution to the attainment of desired results (objectives).

BEHAVIORAL OBJECTIVE—Statement which describes precisely what a student will have learned or be able to do after completing a unit of instruction.

CIPP—(Context, Input, Process, Product) An educational evaluation model developed by Stufflebeam structured to emphasize the provision of useful information for judging decision alternatives.

CONTEXT EVALUATION—Provides information about needs, problems, opportunities in order to identify objectives.

COST EFFECTIVENESS ANALYSIS—A systematic process of comparing alternative actions with regard to the benefits to be gained as opposed to the costs to be incurred. A major activity of Operations Research.

CRITERIA—Pre-determined standards used in making judgments as to the validity of a program and its objectives.

CRITICAL PATH—Those activities which must be performed within a certain time period to complete the project or achieve the objective. In a network representation (Critical Path Method—CPM).



- **DELPHI**—A long range planning technique which elicits and refines the opinions of individuals as to the probability of future events. In library planning Delphi has been used to query a variety of publics with respect to their view of the future as related to needs for library service.
- EVALUATION—The process of providing useful information in planning and decision making for improved program effectiveness.
- **FEEDBACK**—Data which can be either positive or negative but generally reports discrepancies between intended and actual operation.
- GANTT CHART—A series of bars plotted against a time scale to show the beginning, duration, and end in time of a project segment. Together the bars make up a schedule for the whole program.
- GOAL—A state or condition to be achieved which may be long range or even timeless, but provides a policy focus for setting objectives and program planning.
- HEURISTICS—Knowledge gained from experience that is valuable for future planning.
- INPUT EVALUATION—Provides information during the planning stages about the strengths and weaknesses of alternative strategies for achieving given objectives.
- MBO—MANAGEMENT BY OBJECTIVES—A system characterized by staff identification of objectives, establishment of a plan to achieve them, and performance evaluation in terms of results in attaining them.
- MILESTONE—A program event or task which is essential to the final completion of a project or an objective. A Milestone Chart provides a sequential list of tasks to be accomplished with an indication of how certain events are interdependent.
- MODEL—A diagram to help structure the complexities of the decision making process into a logical framework.
- NETWORK—A flow chart of plan showing all activities or tasks which must be accomplished to complete the project and/or reach the objective interdependencies of activities are shown.
- OBJECTIVE—A state or condition to be achieved within a certain time frame that is measurable, specific, and attainable.
- OR-OPERATIONS RESEARCH-A system using various mathematical techniques to provide management with logical data for decision making.

- PERT-(PROGRAM EVALUATION AND REVIEW TECHNIQUE)—A system which seeks to reach objectives in the shortest possible time through utilization of a chart or graphic representation of the tasks or events to be completed. Usually showing three time estimates for each task: Optimistic (if all goes smoothly), Pessimistic (longest time, when major setbacks occur), and probable time. The PERT Chart is used to monitor and evaluate project status.
- **PPBS**—(PLANNING, **PROGRAMMING**, **BUDGETING SYSTEM**)—A decision system for allocating resources for the accomplishment of high priority objectives rather than on a line item basis.
- PROCESS EVALUATION—Provides information about the strength and weaknesses of a strategy during implementation, so that either the strategy or its implementation might be strengthened.
- PRODUCT EVALUATION—Provides information for determining whether objectives are being achieved, and whether the procedure employed to achieve them should be continued, modified or terminated.