Southern Regional Education Board
April 12, 1961

MINUTES OF MEETING OF REGIONAL COMMITTEE ON STATISTICS
Medical Center, University of Kentucky
March 30, 1961

Members present:

Dr. J. A. Rigney, North Carolina State College (Chairman)
Dr. Ralph A. Bradley, Florida State University
Dr. Dana G. Card, University of Kentucky
Dr. A. C. Cohen, Jr., University of Georgia
Dr. John P. Gill, University of Alabama
Dr. Boyd Harshbarger, Virginia Polytechnic Institute
Dr. Allyn W. Kimball, Jr., Johns Hopkins University
Dr. Carl E. Marshall, Oklahoma State University
Dr. Herbert A. Meyer, University of Florida
Dr. George E. Nicholson, Jr., University of North Carolina
Dr. Gordon R. Sherman, University of Tennessee
Dr. Rutledge Vining, University of Virginia
Dr. James W. Walker, Georgia Institute of Technology
Mr. William C. Geer, Southern Regional Education Board (Secretary, pro tem)

Members absent:

Dr. Donald A. Gardiner, Oak Ridge National Laboratory
Dr. John R. Stockton, University of Texas

1. The chairman reviewed the agenda for the day. There were no suggestions for revision of the agenda. Attachment 1 is a copy of the agenda.

2. Recognition of new members. The schools which had become signatories to the Memorandum of Agreement since last year were Johns Hopkins University, represented by Dr. Allyn W. Kimball, and Florida State University, represented by Dr. Ralph A. Bradley. Also in attendance for the first time was Dr. Gordon R. Sherman of the University of Tennessee.
3. Dr. Boyd Harshbarger reported that NIMH is providing fifteen scholarships for students only during the forthcoming summer session. He reviewed plans for the summer session at VPI. A copy of the folder describing the summer session is included as Attachment 2.

4. Dr. Carl E. Marshall reported on two proposals to be considered for presentation to the National Science Foundation or other possible sources of financing. Proposal one dealt with a special long-range fellowship program which would be an integral part of the already established summer sessions. This proposal incorporates elements for the selection of excellent students for movement through Master's degree programs and for possibly becoming candidates in doctoral programs. A copy of the proposal is Attachment 3.

Dr. Marshall's second proposal was related to a method of providing faculty for the summer sessions. This proposal will be developed later.

Dr. Herbert A. Meyer moved and Dr. Allyn W. Kimball seconded that the committee approve in principle proposal one as submitted by Dr. Marshall and that a subcommittee be appointed to work out details. The motion was carried unanimously. The following were appointed on this subcommittee by Chairman Rigney: Dr. Carl Marshall (chairman), Dr. Boyd Harshbarger, Dr. A. C. Cohen, Jr.

5. Representatives of the statistics programs gave a brief review of their programs in order that the committee might have a current impression of the movement of statistics programs in the region. This review was to serve as a basis for the discussion of Item 6.
6. Dr. Rutledge Vining called to the committee's attention the possible advantages of re-examining certain curricular areas in statistics. He pointed out several examples of curriculum development projects which are supported by foundations. Dr. Vining's statement touched off considerable discussion about the relationship of statistics to various academic departments, about the basic content of statistics courses and about the need for making an exploration of possible studies of the curriculum in statistics. Dr. Carl Marshall moved and Dr. Boyd Harshbarger seconded that a committee be appointed to explore the need for the study of the content of statistics. The motion was unanimously carried. The committee appointed by Chairman Rigney to make this exploration was as follows: Dr. Ralph Bradley (chairman), Dr. James Walker, Dr. Rutledge Vining, Dr. George Nicholson. The chairman requested that the committee make periodic reports to the members of the committee prior to the meeting next year.

7. Dr. Carl Marshall was reported as the choice of the nominating committee for chairman during the next year. Dr. Marshall was elected by acclamation.

8. Dr. Boyd Harshbarger gave a brief report of the committee on the summer statistics retreat. The committee will explore further the costs per participant and report at next year's meeting.

9. A brief report by the committee on publicizing statistics was made indicating that national organizations seem to be doing this effectively and that no specific action is recommended at this time.
10. Florida State University was selected as the host for the next annual meeting of the committee on statistics. The dates established for this committee meeting are March 15-16, 1962.

11. There was a brief discussion of the possible enlargement of the statistics committee. It was suggested that this be placed on next year's agenda as a discussion item.

12. The committee reviewed the report of a meeting of an advisory committee on a conference related to the use of computing centers. The committee also explored some activities which the SREB had suggested with relation to a regional conference on computing centers. There was some lack of enthusiasm on the part of the committee members stemming primarily from a lack of clear insight into what undertakings might really be involved. The committee again questioned whether regional activities could accomplish anything more than would be done by national organizations. It was concluded that the committee on statistics would be glad to explore whatever activities in the computer field that seemed to be appropriate, and the chairman appointed Dr. Herbert Meyer and Dr. A. C. Cohen as a sub-committee to work closely with the Southern Regional Education Board in determining what activities might be worthwhile. It was suggested that this committee report by mail to the members of the committee on statistics to keep them informed of their deliberations.
Agenda - 1961 Annual Meeting

Southern Regional Committee on Statistics

March 30, 1961

Morning Session - 9:00 - 12:00

1. Introductory - Recognition of New Members
2. Report on 1961 Session - Harshbarger
3. Revision of Basic Course Offerings
4. Proposal for Coordinated Financing of Sessions
5. Preview of 1962
6. New Business
7. Appointment of Nominating Committee

Afternoon Session - 1:30 - 4:30

1. Review of statistical programs of the Region
2. Status of New Memorandum of Agreement
5. Report on Computer Committee Meeting
6. Report on Changes in SREB
7. New Business - Liaison between larger and smaller institutions
   Promotion of more regional statistics meetings
   held in the South
8. Election of Officers
9. Selection of Meeting Place for 1962
The following is the proposal made to the Southern Regional Committee on Statistics.

No. of Fellows

<table>
<thead>
<tr>
<th>Year</th>
<th>Host Institution</th>
<th>Initial Year</th>
<th>2nd Year</th>
<th>3rd Year</th>
<th>4th Year</th>
<th>No. of Fellowships</th>
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<td>30</td>
<td></td>
<td></td>
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<td>15</td>
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<tr>
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<tr>
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<td>30</td>
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<tr>
<td>1967</td>
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</tbody>
</table>

Procedure for selecting fellows:

Requirement:

1st year fellows

1. Must be employed as a college or university teacher of mathematics or statistics.

2. Must have had appropriate course work to meet the prerequisite for taking a course in theory of statistics equivalent to Mood's text, "Theory of Statistics."

3. Priority will be given to those who would be desirous of attending a "4-summer" program as outlined below.

2nd, 3rd, and 4th year fellows

1. To be selected from those who had participated in and had received fellowships the previous summer.

2. Those selected would be awarded a 3-summer fellowship.

3. Attendance in successive summers would be expected.

4. Success in the "initial-summer" program would be a basic factor in awarding the 3-summer fellowships.

Proposed Program

A. Objectives:

1. To provide a background in statistics for college teachers of mathematics and statistics, thereby increasing the number of teachers qualified to teach basic courses in statistics in institutions of higher learning, particularly for those institutions who do not, and probably will not, have departments of statistics.
2. To provide a background in statistics for further graduate study teaching toward a Ph.D. degree in statistics and thereby increase the supply of statisticians for teaching and research in our institution of higher education.

B. Length of Summer Session:

It is proposed that the length of the summer session be determined by the length of the normal summer session of the host institution, but in no case be less than 8 weeks in length.

C. Proposed Curriculum:

Initial Summer

6 hours in Theory of Statistics, the level of the course being equivalent to Mood, "Introduction to Theory of Statistics."
3 hours in Methods of Statistics of the level of Snedecor, "Statistical Methods."

Second Summer

6 hours in Statistical Methods including Design of Experiment, Design of Surveys.

Third Summer

3 hours of Advanced Design of Experiments.

Fourth Summer

6 hours in Advanced Design of Experiments.
3 hours in Thesis or Report.

D. In order to obtain a degree from any institution, the student will need to meet the special requirements of the particular institution including foreign language requirements and admission requirements. The student will be permitted to choose any institution that has signed the "Memorandum of agreement for operation of a regional committee on statistics," and who has agreed to accept the credits earned at the "Southern Regional Summer Sessions in Statistics" as a residence credit.

If all goes well, 60 students will complete the equivalent of a Masters in Statistics at the end of seven years, while 60 other students will have obtained one summer of basic statistics. Of course, some mortality can be expected on the 3-summer fellowships.
SOUTHERN REGIONAL COMMITTEE ON STATISTICS
1961-1962

Carl E. Marshall (Chairman)
Director, Statistical Laboratory
Oklahoma State University
Stillwater, Oklahoma

Ralph A. Bradley, Head
Department of Statistics
Florida State University
Tallahassee, Florida

Dana G. Card
Professor of Agricultural Economics
Department of Agricultural Economics
Agricultural Experiment Station
University of Kentucky
Lexington, Kentucky

A. C. Cohen, Jr., Director
Institute of Statistics
University of Georgia
Athens, Georgia

Donald A. Gardiner
Statistics Section
Oak Ridge National Laboratory
P. O. Box Y
Oak Ridge, Tennessee
(representing ORINS)

John P. Gill, Head
Department of Business Statistics
School of Commerce and Business Administration
University of Alabama
Box 6264
University, Alabama

Boyd Harshbarger, Head
Department of Statistics
Virginia Polytechnic Institute
Blacksburg, Virginia

Allyn W. Kimball, Jr.
Professor and Chairman
Department of Biostatistics
School of Hygiene and Public Health
Johns Hopkins University
615 N. Wolfe Street
Baltimore 5, Maryland

Herbert A. Meyer, Director
Statistical Laboratory
Box 3568
University of Florida
Gainesville, Florida

George E. Nicholson, Jr., Chairman
Department of Statistics
University of North Carolina
Chapel Hill, North Carolina

J. A. Rigney, Head
Department of Experimental Statistics
North Carolina State College
Raleigh, North Carolina

Gordon R. Sherman
Assistant Professor of Mathematics
Department of Mathematics
University of Tennessee
Knoxville, Tennessee

John R. Stockton, Director
Bureau of Business Research
University of Texas
Austin 12, Texas

Rutledge Vining
Professor of Statistics and Economics
Department of Economics
University of Virginia
Charlottesville, Virginia

James W. Walker
Associate Professor
School of Mathematics
Georgia Institute of Technology
Atlanta, Georgia

John K. Folger (Secretary)
Associate Director for Research and Programs
Southern Regional Education Board
130 Sixth Street, N.W.
Atlanta 13, Georgia
Southern Regional Education Board
March 22, 1961

MINUTES
MEETING OF COMMITTEE TO PLAN A REGIONAL CONFERENCE
RELATED TO COMPUTER CENTERS

Henry Grady Hotel
Atlanta, Georgia
March 2, 1961

Participants

Dr. William F. Atchison, Georgia Institute of Technology
Dr. John W. Carr, III, University of North Carolina
Dr. John W. Hamblen, University of Kentucky
Dr. David M. Young, Jr., University of Texas
Dr. Elliott I. Organick, University of Houston
Dr. Herbert A. Meyer, University of Florida
Dr. J. A. Rigney, North Carolina State College

SREB Staff

Mr. Lloyd W. Chapin
Dr. John K. Folger
Mr. William C. Geer
Mrs. Joyce Tallman

The meeting opened with an explanation about SREB and its general interest in matters related to the improvement of higher education in the region. The possibilities of regional action in problems concerning computer centers was first identified through discussions and correspondence with Dr. Herbert Meyer and Dr. J. A. Rigney. Drs. Meyer and Rigney related their original background of interest in this activity. The problems in organization of computer centers historically is similar to those during the development of the statistics field in that statistics were developed by people who use them. Computers are new instruments with high speed and great capacity opening up great possibilities for their use in various ways in which they may be applied. Regional cooperation
might be productive in helping to solve some of the problems related to the use of computing centers. The program in statistics has been productive to universities participating in it. The summer sessions in statistics which rotate among four institutions have greatly assisted institutions in the Southeast. Without these cooperative summer sessions each institution would have to run a summer session each year. One outstanding problem in the computing field is the availability of trained personnel. A combined attack on this training problem might be economical for the region, particularly if it could help to prevent unnecessary duplication.

After the opening remarks the committee considered various matters related to the effective use of computers. The following ideas were discussed, not necessarily in the order in which they are presented.

1. Which of the problems that can be identified are regional and which are national? There seemed to be agreement that nothing should be undertaken regionally which might be done better on a national scale.

2. The training of personnel presents a major problem. Installations of computers in colleges and universities, in industry, and in other settings are producing a need for specialized personnel capable of directing the operations of and providing staff for such centers. There is also a need for in-service education of college administrators and department heads about the potentialities which computers offer in research and in various other uses such as scheduling of classrooms, students, records, etc.

3. The installation of certain kinds of expensive computers may well be a topic for some regional consideration. The possibility of a small number of major computing centers which would serve smaller institutions was presented. This would not rule out
the installation of small computers in most colleges and universities. Institutions of a thousand enrollment or more and possibly some with less enrollment would want small computers.

4. Summer conferences or sessions were mentioned as one productive possibility. For example a conference of deans to orient them with problems of computing centers might be most important. Registrars and business managers were also mentioned as important potential users of computing centers who might be brought together for group discussions.

5. There was a suggestion that some of the problems related to computing centers be presented at meetings of the SREB and some of its committees, such as the Legislative Advisory Council, the Educational Plans and Policies Advisory Committee, etc.

6. There was considerable discussion about a project at the University of Michigan which had been very valuable in acquainting university staff with the potential use of computers.

7. Interinstitutional cooperation in the use of computers was cited between Dartmouth and MIT. MIT has also made its computer services available to other smaller institutions in the New England region. The University of North Carolina is making a start in this direction in that there are five schools who use its facilities. Other possibilities of this type which might be worked out in the region were mentioned.

The committee discussed at length the possible value of a regional conference on problems related to computer centers. Finally the discussion boiled down to two alternatives. One would be to have a conference to which the directors of computing centers would be invited to come and discuss their problems and to
consider possible methods of regional action. The second possibility would be to involve not only computing center directors but also selected university administrators who might be involved in decisions about the purchase, installation and use of computers and to use the conference for informational and possibly decision-making purposes. There seemed to be agreement that the second approach was best.

Several possible speakers were mentioned for such a conference. These included Dr. Donald L. Katz, Director, Ford Foundation Project, University of Michigan, who conducted the Michigan project; Dr. Philip N. Morse, Head of the Computer Center at MIT; and Dr. George W. Brown, Head, Western Data Processing Center, University of California. It was also suggested that a representative from Dartmouth might tell how they operate in the use of the MIT computer. Another speaker might indicate how computers are affecting various areas of research, medicine, linguistics, etc. A TV tape is available from North Carolina which would be useful in this regard. The possibility of having someone who is not in computing to discuss the usefulness of computers brought forward mention of Howell Bowker of Stanford and Warren Weaver of the Sloan Foundation which has an interest in language translation.

A time which seemed to be most generally agreed upon for a conference of this type would be sometime in the fall.