REGIONAL COMMITTEE ON STATISTICS

ANNUAL MEETING

Texas A & M University
College Station, Texas
October 29-30, 1970

Report

The Southern Regional Committee on Statistics held its annual meeting on October 29-30, 1970, at Texas A & M University, College Station, Texas, with 28 persons present. (A roster is attached to this Report as Appendix A.) Dr. James Walker, Chairman of the Committee, presided.

The group was welcomed on behalf of Texas A & M University by Dr. Horace Byers, Vice President, who gave a brief history of the institution and commented on some of its current developments.

After introductions, Dr. Walker called on the observers to describe the Statistics programs at their institutions. Reports were heard from Auburn University, Louisiana Polytechnic Institute, Medical University of South Carolina, Texas Tech University, University of Alabama in Birmingham, and University of Southwestern Louisiana.

Treasurer's Report

Dr. Hickman gave the Treasurer's Report, showing a balance of $2053.30, of which $1500 was in certificates of deposit and the remainder in a savings account. (A copy of the Treasurer's Report is attached as Appendix B.) It was moved, seconded, and passed that the Report be approved.
Brochure

Dr. Mason reported for the Statistics Brochure Committee consisting of
Drs. Mason, Bradley, Cohen, Gardiner, Moore, and Smith. He distributed a draft
of the next brochure and asked that each member comment promptly on the section
concerning his own institution. Dr. Smith recapitulated the costs and distribu-
tion of the 1969 brochure. (This report was given in full at the October,
1969, meeting.) She stated that each member institution had contributed $50
toward costs, with SREB paying the additional costs amounting to about $1200;
but added that SREB found it necessary to reduce considerably its cash contribu-
tion this year. It was moved and seconded that each member institution be
assessed $75 toward the cost of the next brochure and that publication be com-
pleted as soon as possible. In discussion it was brought out that the total amount
thus collected might be insufficient to meet actual costs. A suggestion that the
balance in the treasury might be used to defray any deficit in publication and
mailing costs was informally rejected on the basis that treasury funds should
be kept for special, non-recurring Committee expenses. An amendment to the
motion was proposed and seconded stipulating that each institution be assessed
$100 toward brochure costs, the assessment to be negotiated downward if actual
costs are less. The amendment passed with several dissenting. The motion was
then passed (14 Aye, 3 No).

The question was raised of what institutions should be included in the
brochure. It was suggested that all Ph.D. programs in Statistics in the South
be included, whether the institutions were members of the Regional Committee or
not. Objections were raised on the basis that, since the brochure was already
in draft, it would be too time-consuming now to add more programs; that the
subcommittee had made the draft in accordance with directions of the Regional
Committee at its last annual meeting. The question came up as to whether
Institutions should be included whose membership was now pending, and whether the Oklahoma State University should be listed since Oklahoma withdrew from the Southern Regional Education Compact in July, 1970. It was moved and seconded that programs listed in the brochure be limited to current members as of October, 1970, and that the status of Oklahoma State University be explained in a footnote. After discussion an amendment to the motion was proposed and seconded to the effect that OSU be included unless either SREB or OSU put forward reasons to omit it. The amendment failed (3 Aye, all others No). The original motion passed.

Dr. Charles Moore was appointed chairman of the committee for the next brochure.

1970 Regional Summer Session

Dr. Minton distributed a written report on the 1970 Regional Summer Session in Statistics held at Southern Methodist University (see Appendix C). He stated that there had been 23 registrants from outside SMU, 21 of whom were either enrolled in a graduate program in the region or were being admitted at SMU. Most of them were already teaching in college. Stipends were not limited to students from the Southern Region. SMU offered the Regional Summer Session without benefit of an outside grant. In reply to requests Dr. Minton indicated that he would circulate a list of applicants and a list of those who attended the Summer Session. Dr. Walker asked permission to write the President of SMU thanking him for the University's support and cooperation in offering the summer session. It was moved, seconded, and passed that he do so.

Summer Research Conference 1970

Dr. Federopiel distributed a written report on the Summer Research Conference for 1970 (see Appendix D). He called attention to the fact that the
Conference had a deficit of $290. In discussion, some feeling was expressed that the 1970 program was comparatively weak and that there had been less discussion at the sessions than was desirable. Suggestions for future conferences included the following:

- Appoint discussants for papers (but have them participate from the audience).
- Nominate more candidates to be invited, and follow up on the invitations.
- Invite previous participants.
- Increase the registration fee.
- Increase social contacts outside meetings.
- Plan more cooperative, interinstitutional programs.
- Vary the format during the week: some sessions with brief reports from several research projects; some "clinical sessions" where people could bring in problems for discussion.

Dr. Walker read a resolution which the Conference had passed commending Dr. Federspiel. (Copy of resolution attached as Appendix E.) Dr. Walker also read a letter he had written to Chancellor Heard thanking him for Vanderbilt University's assistance in the Conference program. (Copy attached as Appendix F.) It was moved, seconded, and passed that these two documents be included in the minutes of the current meeting. The Regional Committee expressed appreciation to Dr. Federspiel for his work in planning and directing the 1970 Summer Research Conference.

**Memorandum of Agreement**

Dr. Walker called attention to the proposed Memorandum of Agreement which had been revised several times by the subcommittee and had been distributed to Committee members for action at this meeting. He noted that it was organized in three major parts: (1) the Agreement itself; (2) By-Laws of the Regional Committee; (3) brief descriptions of current projects and activities under consideration.
Dr. Minton, chairman of the subcommittee, moved approval of the By-Laws as presented (seconded by Dr. Mason).

Discussion of the By-Laws centered around the item concerning criteria for institutional membership on the Regional Committee, specifically the inclusion of institutions offering or working toward a bachelor's degree with a major in Statistics. Opposition focussed on two major points: (1) Though the new criterion would perhaps open up membership to only five institutions not now eligible, it might in future mean such a large number as to be unwieldy. (2) The new criterion could be construed as the Committee's endorsement in principle of undergraduate specialization in Statistics, whereas Committee members were by no mean unanimously in support of undergraduate specialization in this field. It was argued that, since the intent was to provide a channel of communication with undergraduate statistics programs, more satisfactory ways of doing so might be devised.

In an attempt to clarify further the question of the suitability of including undergraduate programs, Dr. Walker reviewed the purposes of the Committee and read a letter recently received from Dr. William R. O'Connell stating SREB's views on composition and functions of the Committee. (A copy of the letter is attached as Appendix G.)

Dr. Anderson offered an amendment to Dr. Minton's motion:

Institutions or organizations in the South belonging to one of the following categories will be eligible for membership on the Regional Committee on Statistics:

1. An institution for higher education offering a doctoral program with a major and a dissertation requirement in probability or statistics;

2. An institution for higher education that offers a doctoral program in another field . . . where advanced training and a dissertation in statistics constitute a major emphasis;

3. An institution for higher education that is in the process of developing plans for a doctoral program with a major in statistics; or

4. A research organization devoted in a substantial way to education and research in statistics.
The amendment passed, with 28 voting Aye and 2 No.

Dr. Freund urged that the Committee make a special effort to obtain the participation of undergraduate programs by inviting them as observers to appropriate meetings. Dr. Mason proposed that the Committee make definite plans for a special session on undergraduate programs in Statistics and invite those programs to attend that meeting. Both proposals were tabled for discussion under Future Activities later in the meeting.

Dr. Bradley moved an amendment to the motion on the By-Laws to the effect that the section of the By-Laws under discussion be entitled "Membership and Participation." The motion was seconded (Dr. Anderson) and passed.

Dr. Freund moved an amendment to the motion on By-Laws that Paragraph D in the same section be modified to read "Any institution with interests in Statistics may be invited to send a representative to participate in and/or observe appropriate programs of the Committee." The motion was seconded (Dr. Anderson) and passed.

A vote was then taken on a motion to approve the By-Laws as amended. The motion passed unanimously.

Dr. Minton moved that the Committee approve the intent of the sections entitled "Continuing and Current Programs" and "Future Programs and Problems." The motion was seconded. Dr. Bradley called attention to certain changes that had been made in these sections since the last circulated draft:

--The wording of the statement on Regional Summer Sessions allows for there being none or more than one in any given year.

--The Visiting Lecturer Program is listed permissively under "Future Projects" rather than described under "Continuing Programs."

Deletion of the statement calling for distribution of a brochure on the regional lecture program was moved, seconded, and passed as an amendment to Dr. Minton's motion. A vote was then taken on the motion as amended, which was passed.

APPROVAL OF THE ENTIRE MEMORANDUM OF AGREEMENT WAS THEN MOVED, SECONDED, AND PASSED.
1971 Regional Summer Session

Dr. Aucoin, acting for Dr. Wallenius, reported on plans for the 1971 Regional Summer Session to be held at Clemson University. He distributed copies of the proposal submitted to the National Science Foundation. He stated that the University would pay the visiting faculty if funds were not granted by NSF. He pointed out that, other than the courses to be offered by the two visiting faculty, the proposed courses to be offered were at fairly low level. It was agreed that this represented the direction the regional summer sessions should take. It was moved, seconded, and passed unanimously that the Committee endorse the program as submitted.

Future Summer Sessions

It was pointed out that Oklahoma State University was to have hosted the summer session in 1972, but that this must be cancelled since the State of Oklahoma has withdrawn from the Southern Regional Education Compact. It was also noted that volunteers were needed for 1973 and future years. After discussion, the schedule for future years was as follows:

1972--Rice University (pending the approval of Dr. Thrall and the signature of the University to the Memorandum of Agreement)
1973--Florida State University
1974--Texas Tech University
1975--University of Georgia.

It was moved, seconded, and passed that the above schedule be adopted. Dr. Federspiel agreed to explore the possibility of a joint University of Tennessee-University of North Carolina (Chapel Hill) session which would emphasize health sciences and which might be offered as an additional session some year.

Dr. Walker appointed as the Committee on Summer Sessions Drs. Wallenius, (Chairman), Minton, Bradley, Thrall, Clay, Cohen, and Federspiel.

1971 Summer Research Conference

Dr. Harshbarger, as chairman for arrangements, and Dr. Mason, co-chairman for program, reported jointly on plans for the 1971 Summer Research Conference,
probably to be held at Mountain Lake, Virginia, the week of June 13. In view of the early date, members were urged to send in nominations early. The Committee endorsed the suggestion of Drs. Gardiner and Federspiel that the invitation list be expanded to include persons from outside the South and from other than academic institutions. It was emphasized that Committee members had a responsibility to make sure their nominees were interested and would come if invited. It was moved, seconded, and passed that plans for the upcoming Summer Research Conference be approved as outlined.

Site for Next Meeting

Dr. Harshbarger, chairman of the subcommittee on selecting a site for the next meeting, asked the Committee to vote to select hosts for the 1971 and 1972 annual meetings, as there were three volunteers for each year. The vote was taken by ballot with the following results:

1971--Florida State University
1972--Virginia Polytechnic Institute.

Future Projects and Problems

Dr. Minton introduced the related problems of undergraduate programs in Statistics, organization of statistical instruction within institutions, and relationships of Statistics with other disciplines. He proposed that the Regional Committee state and disseminate a position, showing alternative viable solutions to the organizational problem, and emphasizing that Statistics is a discipline which should be recognized in its own right, however organized. He moved that a committee be appointed to put together such a position paper in brochure form, and another committee to plan a summer conference which would study and discuss these interrelated problems. The motion was seconded by Dr. Harshbarger.

In discussion of the problems inherent in undergraduate instruction in statistics, it was observed that departments desiring service courses in statistics
want applied statistics, whereas departments of statistics tend to place emphasis
on the theoretical aspects. Providing good service courses will require incul-
crating good attitudes toward them in graduate students; hence, a change of
attitude will be necessary on the part of graduate departments. Undergraduate
programs in statistics, on the other hand, are so far generally too narrowly
oriented. Suggestions for attacking these problems included a series of journal
articles; a special study to generate ideas on means of interdisciplinary com-
munications and relationships; a conference to consider the role of statistics in
other fields, with articles and brochures to come out of the conference discussions.

Dr. Minton's motion was withdrawn, and a new motion made that the existing
committee on Future Projects be charged with specific responsibility for organ-
izing an attack on the problems listed in the new Memorandum of Agreement and
as discussed in this meeting. The motion was seconded and passed, with one
vote of No.

Resolutions Committee

Dr. Gardiner reported the following resolutions from the Resolutions
Committee:

1. Resolution of appreciation to Texas A & M University and to
   Dr. and Mrs. Freund, for hospitality;

2. Resolution of appreciation to SREE and Dr. Smith, for assistance;

3. Resolution "not singling out for laudatory commendation" Drs.
   Walker, Minton, Federspiel, Mason, Hickman, and various sub-
   committees.

(The full text of these resolutions is attached as Appendix II.)

The adoption of these resolutions was moved, seconded, and passed.

There being no further business, Dr. Walker adjourned the meeting with
the consent of the members.
Official Representatives of Member Institutions

R. L. Anderson
Department of Statistics
University of Kentucky
Lexington, Kentucky 40506

Clayton V. Aucoin
Dean, College of Physical
and Mathematical Sciences
Clemson University
Clemson, South Carolina 29631

Ralph A. Bradley
Head, Department of Statistics
Florida State University
Tallahassee, Florida 32306

A. C. Cohen
Professor, Department of Statistics
University of Georgia
Athens, Georgia 30601

Charles F. Federspiel
Director, Division of Biostatistics
Vanderbilt University
Nashville, Tennessee 37203

Rudolph J. Freund
Professor and Associate Director
Institute of Statistics
Texas A & M University
College Station, Texas 77843

Donald A. Gardiner
Assistant Director
Mathematics Division
Oak Ridge National Laboratory
P. O. Box Y
Oak Ridge, Tennessee 37830

Elmer C. Hall
Chairman and Professor
Department of Statistics & Biometry
Emory University
Atlanta, Georgia 30322

Boyd Harshbarger
Head, Department of Statistics
Virginia Polytechnic Institute
Blacksburg, Virginia 24061

Edgar P. Hickman
Professor of Economics & Statistics
College of Business Administration
University of South Carolina
Columbia, South Carolina 29208

David C. Hurst
Professor and Chairman
Department of Biostatistics
*University of Alabama in Birmingham
1919 7th Avenue South
Birmingham, Alabama 35233

David D. Mason
Professor and Head
Department of Statistics
North Carolina State University
Raleigh, North Carolina 27607

Paul D. Minton
Professor, Department of Statistics
Southern Methodist University
Dallas, Texas 75222

Charles N. Moore
Professor and Head
Department of Business Statistics
and Data Processing
Mississippi State University
Box 2141
State College, Mississippi 39762

William M. O'Fallon
Assistant Professor
Department of Mathematics
Duke University
Durham, North Carolina 27706

R. M. Patterson
Professor, Research Data Analysis
*University of Alabama
Auburn, Alabama 36830

*Institutional membership pending
Official Representatives of Member Institutions (continued)

John G. Saw  
Professor, Department of Statistics  
G175 Dan McCarty Hall  
University of Florida  
Gainesville, Florida 32601

Mary Howard Smith  
Special Programs Associate  
Southern Regional Education Board  
130 Sixth Street, N.W.  
Atlanta, Georgia 30313

John R. Stockton  
Professor of Business Statistics  
University of Texas  
Business-Economic Building, Room 615  
Austin, Texas 78712

Charles R. Thigpen  
Professor and Head  
Department of Statistics  
301 Alumni Hall  
University of Tennessee  
Knoxville, Tennessee 37916

James W. Walker  
Professor, School of Mathematics  
Georgia Institute of Technology  
Atlanta, Georgia 30332

Observers and Additional Participants

Leroy Folks  
Chairman, Statistics Unit  
Oklahoma State University  
Stillwater, Oklahoma 74074

Wayne Gobert  
Professor, College of Business  
Louisiana Polytechnic Institute  
Ruston, Louisiana 71270

Henry L. Gray  
Professor of Mathematics  
and Statistics  
Texas Tech University  
Lubbock, Texas 79409

Boyd Leadholt  
Assistant Professor  
Department of Biometry  
Medical University of South Carolina  
Charleston, South Carolina 29401

Joe D. Pegram  
Department of Mathematics  
Drawer MA  
Mississippi State University  
State College, Mississippi 39762

Philip F. Rice  
Associate Professor  
College of Business Administration  
Louisiana Polytechnic Institute  
Ruston, Louisiana 71270

Jack Testerman  
Director of Research  
University of Southwestern Louisiana  
Box 231  
Lafayette, Louisiana 70501
TREASURER'S REPORT

BALANCE ON HAND as of 1969 Annual Meeting

Savings accounts in Atlanta $1797.08
Checking account in Oak Ridge 482.07

Total $2279.15

Receipts since 7 November

Interest on savings accounts $ 64.45
1970 Summer Conference 682.50

Total $ 746.95

Expenditures since 7 November

1970 Summer Conference $ 972.80

Deficit for year $ 225.85

CURRENT BALANCE ON HAND as of 1970 Annual Meeting

SCN Certificate of Deposit $1500.00
Savings account 553.30

$2053.30
To: SREB Committee on Statistics
From: Paul Minton
Subject: 16th Annual Southern Regional Cooperative Graduate Summer Session in Statistics

Here is a report on the Summer Session held at Southern Methodist University June 8 to July 17, 1970.

Financial Support

Two proposals were submitted to the National Science Foundation for support of the summer session. One was to the College Teacher Program, Division of Undergraduate Education in Science, for a Summer Institute in Probability and Statistics, and the other was to Dr. Alice Withrow, Advanced Science Education Programs, Division of Graduate Education in Science for an Advanced Seminar in Statistics. Neither was funded. Future SREB hosts were furnished copies of the proposals and information on contacts at NSF.

A third proposal was funded locally to provide stipends and tuition for summer attendees. Students enrolled in SREB Committee graduate schools were offered full-time tuition grants of $300 each.

Advertisement

The attached informational brochures were mailed to a mailing list (mostly mathematics departments in the United States) of around 1800 addressees. A supply
also went to SREB Committee members. The brochure contained a coupon to be returned for more information. Notices were sent to all statistics journals, but several had very early deadlines.

### Response

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Applicants were about evenly divided between Bachelor's degree and Master's degree holders, mostly in Mathematics, but several in other fields. Most were college instructors. Inquiries came from all over the United States, including Hawaii.

Attached are copies of information forms furnished those returning coupons. In order to facilitate matters, a preliminary form was used to decide on stipend recipients, with formal admission to the Graduate School to be handled by the student after receiving an offer of a stipend.
## Curriculum

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Total Enrollments 125 41 84

*Seminar were one week each, 2 hours per day, as follows:

June 8 - 12: Dr. John E. Walsh, "Nonparametric Statistics--Some Extreme Value Problems."

June 22- 26: Dr. Dan O. Price, Professor of Sociology, University of Texas at Austin, and Chairman, Social Statistics Section, American Statistical Association, "Use of Statistics in Social Research."

July 6 - 10: Dr. Gottfried E. Noether, Professor and Chairman, Department of Statistics, University of Connecticut, and Chairman, Section on Training, American Statistical Association, "Nonparametric Statistics II--Survey of rank sum tests, confidence intervals, efficiency and other topics."
Evaluation

Judging by our experience, there seems to be considerable interest in graduate summer courses in statistics, even at the first-year level, if nominal stipends are available. There is little interest in summer courses at the first- or second-year graduate level on the part of graduate students regularly enrolled elsewhere, even at SREB universities.

Our contingent of visiting students seemed to enjoy the session, although most appeared to have some difficulty in keeping up with the summer pace. Our staff judged them on ability to be in the lower half of graduate students we have had, but that they have interest and enthusiasm in statistics and in teaching it.

Our overall evaluation is that the session was very worthwhile, in that we have made a contribution to the teaching of statistics at several colleges and have accelerated the programs of our resident students by offering this session.
Please send me further information on the Graduate Summer Session in Statistics to be held at Southern Methodist University, Dallas, Texas, June 8 to July 17, 1970.

NAME

ADDRESS

EDUCATIONAL STATUS:

PRESENT POSITION:

I will probably be interested in the following courses:

I will need registration materials for:

☐ Admission to graduate school.

☐ Special summer registration. I am now enrolled for a degree at

☐ I would like application materials for financial support.

OTHER:

Southern Methodist University
Department of Statistics
Dallas, Texas 75222

16th Graduate Summer Session in Statistics

sponsored by

THE COMMITTEE ON STATISTICS
SOUTHERN REGIONAL EDUCATION BOARD

16th Summer Program 1970
June 8 to July 17

to be held at

SOUTHERN METHODIST UNIVERSITY
Department of Statistics
Dallas, Texas

16th Summer Program 1970
June 8 to July 17

to be held at

SOUTHERN METHODIST UNIVERSITY
Department of Statistics
Dallas, Texas
Southern Regional Graduate Summer Session in Statistics

Graduate sessions in statistics have been sponsored by the Committee on Statistics of the Southern Regional Education Board each summer for the past fifteen years. Several institutions have served as hosts in succession. The first session and the 1969 session were held at the Virginia Polytechnic Institute. Other hosts have included North Carolina State University, Oklahoma State University, the University of Georgia, Emory University, and Texas A&M University. The summer session is scheduled to be at Southern Methodist University in 1970, Clemson University in 1971, Oklahoma State University in 1972, and Florida State University in 1973.

The objective of the Southern Regional Summer Session is to increase the competence in statistics both regionally and nationally by offering advanced graduate instruction in statistics in southern universities during the summer months.

A provisional list of courses to be offered follows. It is anticipated that there will be some minor changes in the offerings.

COURSES

Statistics 6323—Theory of Probability
Statistics 6327—Mathematical Statistics
Statistics 6329—Continuation of 6327
Statistics 6336—Statistical Analysis
Statistics 6345—Linear Regression
Statistics 6376—Stochastic Processes
Statistics 6377—Multivariate Analysis
Statistics 6379—Markov Processes
Statistics 6380—Theory of Sampling
Statistics 6381—Design of Experiments
Statistics 6390—Decision Theory and Bayesian Statistics

Short descriptions of these courses are given in the departmental brochure. They are all three-semester-hour courses.

A Seminar Series will be presented in Nonparametric Statistics and other topics.

Students may register for one or two courses. Tuition is $50 per semester-hour. Tuition awards plus stipends of $500 each are available for a limited number of participants; preference will be given to college instructors.

Registration may be through admission to the Graduate School of Humanities & Sciences of S.M.U. or by special registration arranged by Graduate Deans of institutions participating in the SREB Summer Session. Deadline for applications is May 1.

A tentative list of resident and visiting faculty is given on the following page.

FACULTY

U. NARAYAN BHAT, Assoc. Professor, Ph.D., University of Western Australia. Joint appointment with Computer Science Center.

RICHARD P. BLAND, Assoc. Professor, Ph.D., University of North Carolina.

C. H. KAPADIA, Assoc. Professor, Ph.D., Oklahoma State University.

A. M. KSHIRSagar, Assoc. Professor, Ph.D., Manchester University.

PAUL D. MINTON, Professor, Ph.D., North Carolina State University.

DONALD B. OWEN, Professor, Ph.D., University of Washington.

CAMPBELL B. READ, Asst. Professor, Ph.D., University of North Carolina. Joint appointment with Southwestern Medical School.

WILLIAM T. TUCKER, JR., Asst. Professor, Ph.D., Oklahoma State University.

JOHN E. WALSH, Mobil Professor, Ph.D., Princeton University.

JOHN T. WEBSTER, Assoc. Professor, Ph.D., North Carolina State University.

Visiting Faculty

RONALD R. HOCKING, Assoc. Professor, Institute of Statistics, Texas A&M University, Ph.D., Iowa State University.

JAMES S. WILLIAMS, Professor, Colorado State University, Ph.D., North Carolina State University.
Southern Regional Cooperative Summer Session in Statistics
Southern Methodist University
June 8 - July 17, 1970

1. FINANCIAL ASSISTANCE: Enclosed is an application form for financial assistance, which should be returned to the Department by April 1.

2. ADMISSION:

Regular Admission

Application forms (Forms 1 and 2) are enclosed for admission; please follow the attached instructions carefully. Note that these forms are to be returned to the Dean's office rather than to the Department.

Transcripts will be needed; since these sometimes take time, you may want to start the process immediately.

You may wait until you receive a decision about financial assistance before submitting the admission forms if you wish.

Special SREB Admission

Students of cooperating institutions of the SREB Committee on Statistics are admitted by letter from your Graduate Dean. A simple note to the effect that you have been admitted and that you are pursuing a Master's or Doctor's degree will suffice. This note should be addressed to:

Dr. Claude C. Albritton, Jr.
Dean of the Graduate School of Humanities and Sciences
Southern Methodist University
Dallas, Texas 75222.

In addition, you should return the enclosed Matriculation Form (Form 2) to Dean Albritton.

Deadline for submission of these materials is May 1.

The S. M. U. Registrar will supply your home institution with an official transcript, if you will submit your request in writing to him upon completion of the session.

3. FIRST DAY OF CLASS: Monday, June 8.

4. LAST DAY OF SESSION: Friday, July 17.

5. CALENDAR NOTE: The regular S. M. U. Summer Session begins June 1 rather than June 8. Students desiring to enroll in courses outside Statistics should arrange to begin on the earlier date. Registration is May 29 and 30 for such courses.

6. HOUSING: Housing in University air-conditioned dormitories will be available and can include children over 12.

   A few two-bedroom apartments furnished as student housing (stove and refrigerator but no dishes, utensils, etc.) will be available to families. For reservations in either, write (mentioning SREB Summer Session) as early as possible to:
   Office of Special Services, Box 215, Southern Methodist University,
   Dallas, Texas 75222.

   Food service will be available in student cafeteria.

   Many commercial apartment units are nearby. Names of managers will be sent on request.

    DEPARTMENT OF STATISTICS, SOUTHERN METHODIST UNIVERSITY, DALLAS, TEXAS 75222
APPLICATION FOR PARTICIPATION IN THE
SOUTHERN REGIONAL COOPERATIVE SUMMER SESSION IN STATISTICS

at
SOUTHERN METHODIST UNIVERSITY
June 8 - July 17, 1970

Complete all items on this page, writing "NONE" where appropriate. Use an extra sheet
if necessary.

Miss
1. Name: Mr. ____________________________ 2. Date of Birth: ____________________________
Mrs. (last) __________________ (first) ______ (middle) __________________

3. Present Position: __________________________________________

4. Residence address: ________________________________________
   Phone No. __________________ Zip Code __________________

5. College or university education:

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</table>

6. List courses in mathematics and statistics completed in college or graduate school:

<table>
<thead>
<tr>
<th>Course</th>
<th>Descriptive Title</th>
<th>Cr. Hrs</th>
<th>University</th>
<th>Year Taken</th>
<th>Grade</th>
<th>Course</th>
<th>Descriptive Title</th>
<th>Cr. Hrs</th>
<th>University</th>
<th>Year Taken</th>
<th>Grade</th>
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</thead>
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</tr>
</tbody>
</table>

**S for Semester; Q for Quarter hours (i.e. 3S or 5Q)**

7. Now enrolled at ____________________________________________ (if currently working toward degree).

8. Is financial aid necessary: Yes ______ No ______. If yes, this form must be returned to us
by April 1, 1970. (Early receipt will enhance the possibility of financial aid.)

CONTINUED OTHER SIDE – VERY IMPORTANT
9. IMPORTANT: Please give reasons for attending this session. Include such possibilities as using the courses for a degree, improving your background in statistics for teaching purposes, or for use in industry, etc. Your present and anticipated responsibilities in the teaching or application of statistics are particularly relevant. (Use an additional sheet if necessary.)

10. Questions, Comments, Special Needs:

Signature

RETURN AT ONCE TO:

Dr. Paul D. Minton
Department of Statistics
Southern Methodist University
Dallas, Texas 75222
1. **Counselling and Registration**

**Date:** Friday, June 5

**Place:** Department of Statistics, Heroy Building, S.M.U.

2. **Classes begin:** Monday, June 6.

**Schedule:**

<table>
<thead>
<tr>
<th>No. and Sec.</th>
<th>Course</th>
<th>Hour</th>
<th>Day</th>
<th>Room</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>2331-001</td>
<td>Intro. Stat. Infr.</td>
<td>11:30</td>
<td></td>
<td>138BB</td>
<td></td>
</tr>
<tr>
<td>5373-001</td>
<td>Theo. Prob. &amp; Stat.</td>
<td>7</td>
<td></td>
<td>138BB</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE SPECIAL DATES:** June 6-July 17

**SUMMER SESSION IN STATISTICS**

| 6335-001    | Probability                     | 10-11:50|     | 125C |            |
| 6338-001    | Adv. Math Stat.                 | 2:30-3:50 |     | 125C |            |
| 6335-001    | Linear Regression                | 9-10:50 |     | 125C |            |
| 6376-001    | Stochastic Processes            | 11:50-12:50 |     | 121C |            |
| 6378-001    | Multivariate Analysis           | 9-10:20 |     | 125C |            |
| 6379-001    | Markov Processes                | 10-11:20 |     | 131C |            |
| 6360-001    | Math. Theo. of Sampling         | 8:30-9:50 |     | 125C |            |
| 6381-001    | Design of Experiments           | 10:30-11:50 |     | 125C |            |

| 7300        | Seminar                         | Arr.    |     |      |            |

* Only the one of this pair with the larger outside enroll. will be on TV.
* Only the one of this pair with the larger outside enroll. will be on TV.
* Only the one of this pair with the larger outside enroll. will be on TV.

**Seminars:**

- **Statistics 7100:** June 6-12: *Nonparametric Statistics I*
  - Dr. John E. Walsh
  - (One semester-hour credit)

- **Statistics 7101:** July 6-10: *Nonparametric Statistics II*
  - Dr. Gottfried E. Neither
  - University of Connecticut

3. We have a few leads on apartments. Please write if you wish these.

4. Payment of the $400 stipend will be made the first week of classes. Tuition will be taken care of separately.

**COURSES**

**Undergraduate Courses**

INTRODUCTION TO STATISTICAL INFERENCE-2331. The rationale of statistical theory and practice, i.e., the ideas of tests and hypotheses and estimation of parameters, to serve students in such fields of application of statistics as psychology, sociology, etc. Prerequisite: Math 1308 or Equivalent.

SAMPLING STATISTICS-5370. Theory and practice of sample surveys. Examples from the social sciences, market research, etc. Stratified, systematic, double sampling, subsampling, etc. Approved for graduate credit. Prerequisite: Consent of instructor.

INTRODUCTION TO EXPERIMENTAL STATISTICS-5371, 5372. Two hours lecture, two hours laboratory per week. A two-semester course stressing assumptions, empirical studies and data-handling problems in the analysis of experimental data from a probability viewpoint. Prerequisite: Consent of instructor.

THEORY OF PROBABILITY AND STATISTICS-5373, 5374. A two-semester introduction to the mathematical theory of probability, distribution theory, tests of hypotheses and theory of estimation, stressing definitions, derivations, theorems. Prerequisite: Math. 2339.

APPLIED STOCHASTIC PROCESSES-5376. This course is concerned with model building with stochastic processes in applied sciences. Simple stochastic processes will be introduced and discussed in the context of realistic examples of practical interest. Topics to be covered in theory include: finite and infinite Markov chains, simple Markov processes, renewal processes and inference and decision problems in simple stochastic processes. Applied areas to be discussed include: congestion, reliability, social and behavioral processes and decision processes in management. Prerequisite: Stat. 5374.

**Graduate Courses**

THEORY OF PROBABILITY-6325. Axioms of probability, sample spaces, events. Random variables and vectors, distributions, Stieltjes integrals, functions of random variables. Expected values, characteristic functions, and conditional distributions. Inequalities and limit theorems. Prerequisite: Advanced calculus or consent of instructor. Text: Harris plus additional notes.


DISTRIBUTIONS OF QUADRATIC FORMS-6329. Derivations of non-central $X^2$, t, and F distributions. The derivatives of matrices, vectors, miscellaneous theorems on matrices

STATISTICAL ANALYSIS-6336. A course that introduces the student to the classical statistical methods associated with the normal distribution. In 6336, emphasis is placed upon the probabilistic properties and the interpretation of confidence intervals and tests of hypotheses. Stat 6337 considers the design of experiments relative to specific questions and physical restraints, and the analysis of the resulting data. It is assumed that the student is concurrently taking a course in statistical theory at the Mood and Graybill level. Prerequisite: Consent of instructor. Text: Ostle, Stat. in Research.

STATISTICAL ANALYSIS-6337. Continuation of STAT 6336. The classical experimental designs based upon additive effects and normal errors will be studied. Emphasis will be upon the design of the experiment relative to specific questions and physical restraints and the analysis of the resulting data. Topics covered will be Completely randomized designs, Block designs, Latin and Graeco-Latin squares, Nested designs, Split plot designs, Complete factorials, Fractional factorials, Covariance analysis. Prerequisite: Statistics 6336; recommended as a co-requisite: Statistics 6329.

ADVANCED STATISTICAL QUALITY CONTROL-6342. Acceptance sampling by attributes and by variables, military standard plans, rectifying inspection; nonparametric tolerance limits for normal and non-normal distributions; control charts for fraction defective number of defects, and variables; cumulative sum control charts and recent advances in control chart and acceptance sampling techniques. Prerequisite: Statistics 6327 or CP4350.

ENGINEERING RELIABILITY-6343. Reliability assessment using Boolean techniques, reliability models, maintenance and Markov processes, system reliability. Prerequisite: Statistics 6379.

LINEAR REGRESSION-6345. Designed to acquaint the student with the classical tools of linear regression based upon least squares estimation and inference through the assumption of normally distributed errors. Rotatable designs and designs to reduce bias are included. Prerequisites: Statistics 6329 and Statistics 6337 or Consent of instructor. Text: Draper and Smith.

SPECIAL PROBLEMS IN MEDICAL STATISTICS-6366. Special problems of statistical theory and practice arising in medical research in the local biomedical community. A practicum. Prerequisite: Consent of instructor.

TOPICS IN BIOSTATISTICS-6369. Introduction to bioassay, epidemiology, sequential medical trials, other topics. Prerequisite: Consent of instructor. Text: Finney plus additional material.

SEQUENTIAL ANALYSIS-6375. Statistical inference when the sample size is not predetermined. Wald's Sequential Probability Ratio Test, Bayes procedures. Composite hypotheses. Steink two-stage rule, sequential estimation, etc. Prerequisite: Statistics 6328. Text: None.

STOCHASTIC PROCESSES-6376. Random walk, Markov processes, Poisson processes, waiting times, spectral density functions, applications to random noise problems. Prere-
1. Current Training, Cont’d.


THEORY OF SAMPLING-6380. Theorems concerning simple random sampling, stratified random sampling, cluster sampling, ratio estimates, regression estimates, etc. Prerequisite: Statistics 6328. Text: Cochran


ADVANCED DESIGN OF EXPERIMENTS-6382. This course is a continuation of Statistics 6381. This includes advanced topics in design of experiments with emphasis on analysis rather than construction of designs, under the assumption of additive effects and normal errors. Prerequisite: Statistics 6381. Text: Cochran and Cox.

SURVEY OF NONPARAMETRIC STATISTICS-6385, 6386. Theory and procedures for estimates and tests for moments, tolerance regions, population distributions, etc., including univariate, two-sample and analysis-of-variance results. Prerequisite: Statistics 6328. Texts: Bradley; Walsh.

DECISION THEORY AND BAYESIAN STATISTICS-6390. Decision rules, admissibility, complete classes, Bayes rules, Likelihood principle, empirical Bayesian. Prerequisite: Statistics 6328 or consent of instructor. Text: None.

NONLINEAR INFERENCE-6395. Historical overview of interpolation and regression; maximum likelihood, weighted least squares and their asymptotic equivalence; numerical methods; exact and asymptotic confidence regions; design of nonlinear experiments; and choice of regression functions. Prerequisite: Consent of instructor. Text: None.

SEMINAR IN STATISTICAL LITERATURE-7110, 7111, 7112. Reports from papers in statistical journals, bibliographical problems, etc.


ADVANCED STATISTICAL INFERENCE-7327, 7328. General statistical inference; estimation (point and interval estimates, Bayes and minimax, etc.); tests of hypotheses (invar-

(Class, unbiased, most stringent, etc.). Prerequisite: Statistics 6328. Text: None.


The following courses may carry 3, 6, or 9 hours credit:

RESEARCH IN STATISTICAL INFERENCE-8313, 8314; 8613; 8614; 8913, 8914.

RESEARCH IN BIOSTATISTICS-8315, 8316, etc.

RESEARCH IN SAMPLING THEORY-8317, 8318, etc.

Master's Thesis:

THESIS-6398, 6399

Ph.D. Dissertation:

DISSERTATION-8198, 8398, 8698, 8998.

DISSERTATION-8399, 8699, 8999.

DISSERTATION-8396, 8696, 8996.

DISSERTATION-8397, 8697, 8997.)
NOTICES OF THE AMERICAN MATHEMATICAL SOCIETY

GRADUATE SUMMER SESSION IN STATISTICS

The 16th Graduate Summer Session in Statistics of the Southern Regional Education Board, will be presented by the Department of Statistics at Southern Methodist University from June 8 through July 17, 1970. Graduate level courses in probability, mathematical statistics, regression, stochastic processes, multivariate analysis, Markov processes, sampling, design of experiments, decision theory, and Bayesian statistics will be offered. A seminar series will also be presented in nonparametric statistics and other topics. The courses will be available to a closed circuit television network of colleges and industries in the North Texas Region. Courses and seminars will be presented by visiting professors in addition to local faculty. Tuition awards plus stipends of $400 each are available for a limited number of participants. Preference will be given to college instructors. Deadline for receipt of applications is May 1, 1970. Further information may be obtained by writing to Professor Paul D. Minten, Southern Regional Graduate Summer Session in Statistics, Department of Statistics, Southern Methodist University, Dallas, Texas 75222.
CHAIRMAN'S REPORT ON THE SUMMER RESEARCH CONFERENCE

Sponsored by the Committee on Statistics of the Southern Regional Education Board

August 2 through August 7, 1970

RESUME:

The SREB Summer Research Conference in Statistics was held at the Tides Hotel and Bath Club, Redington Beach, St. Petersburg, Florida from August 2 through August 7, 1970.

There were fifty-two registered participants of which forty-eight attended more than one session. Sessions of approximately two hours duration were held each morning and evening Monday through Thursday with a final session on Friday morning. Sessions were not planned for the afternoons so that participants could carry on professional discussions or enjoy the many recreational facilities available.

Invitations to attend the Conference were extended only to those persons nominated by members of the Committee on Statistics. The program was well balanced and, based on comments made to the Chairman, it appeared that most of the participants would be interested in attending meetings with the same general format again at some future date.

PROGRAM:

The program for the 1970 Conference is shown on the succeeding page, and was the program followed with the exceptions noted below. The presentations were excellent and the Mock Trial conducted on Wednesday morning provided a pleasant change of pace in the program.
The invited speaker for the Conference was Dr. Jerome Cornfield. His wit and good humor combined with his professional acumen contributed immensely to the success of the Conference not only in his individual presentation but also as a discussant at other sessions.

Dr. Myles Hollander of Florida State assumed the role of "standby" speaker, a gesture for which the Chairman was especially grateful.

Dr. Donald Gardiner very effectively stepped in to chair the Monday night session after Dr. Frank Clark found that he would be unable to attend because of a family illness.

Dr. Miles Davis was unable to attend to serve as guide on the "Gossett Memorial Expeditions." He very kindly sent a written presentation concerning Gossett's association with the brewing industry. However, because of time limitations, we were unable to present his excellent paper.

FACILITIES

The Tides Hotel and Bath Club consists of a wide variety of accommodations facing a long stretch of beach on the Gulf of Mexico. These accommodations include hotel and motel rooms, apartments, cottages, club rooms, a bar, dining room, bath house, three swimming pools, putting greens, and shuffleboard courts. These facilities were available to all the participants of the Conference. A newly remodeled meeting room, The Terrace Room, provided an excellent meeting place for the technical sessions. At the front of this room was a raised stage on which was mounted a podium, three portable blackboards (including one especially large stable blackboard), and standing as well as lavaliere microphones. A
large projection screen was also available and the Conference arranged to rent an overhead projector for use by the speakers. There was an abundance of space for attendees to take notes on a series of long tables arranged semicircularly in front of the speakers' platform.

Coffee, ice tea, and pastries were provided on the patio outside the Terrace Room at 10:15 each morning for session breaks. A picnic for all the participants and their families was held Monday evening with an abundance of food served cafeteria style on the patio by Tides personnel. Both the coffee breaks and the picnic supper were financed from Conference funds.

Gummed sticker-type name tags were furnished by the Tides and their use was encouraged at the picnic supper as well as at the technical sessions.

ATTENDANCE:

Members of the Committee on Statistics were sent memoranda concerning plans for the Conference and solicitations for invitees. They were also sent copies of the program and registration forms. Copies of the mailings are attached. They were mailed directly from Nashville. Most of the postage for these mailings were borne by Vanderbilt University.

The letters of invitation, registration forms, and follow-up reminders sheets were mailed from the SREB office in Atlanta to nominees. Names and addresses of nominees submitted by Committee members were forwarded to the SREB office. With the exception of the yellow follow-up sheets, and the cost of all the communications with nominees was absorbed by the SREB.
The communications with speakers and session chairmen were conducted from
the Division of Biostatistics at Vanderbilt. The postage and telephone
expense in these efforts were also borne by Vanderbilt. In addition to
communications made to formalize the program, receipts were sent to
registrants from whom checks were received.

The card file initiated by the Chairman of the 1969 Conference was con-
tinued this time using an IBM card format. The color coding was main-
tained.

The Chairman was impressed with the considerable amount of discussion con-
cerning "prior information" at the 1970 Conference. Consequently, some
tables are attached which give detailed information concerning attendance.
These include Table 1 which shows the number of invitees and registrants
by inviting institutions, Table 2 which shows the number of attendees at
each of the ten sessions, and Figure 1 which is a histogram showing the
number of people registered as family members or guests of participants.
In addition to these tables a roster of participants is included.

Following the example set by Don Gardiner in compiling a Chairman's list,
a number of people outside the region were invited to attend the Conference.

FINANCES:

The 1970 Summer Research Conference incurred a deficit of approximately
$290.00. This was not altogether unplanned. Each of the previous four
Summer Conferences were conducted with a surplus. The Chairman feels that
accrual of a surplus should not become a matter of policy, and accordingly
planned the picnic supper and part of the trip to Busch Gardens for all attendees and members of their families to be financed from Conference funds. This practice might prove an extravagance in future years.

The income for the 1970 Conference was derived only from registration fees at the relatively low level of $15.00 per registrant. There were twelve speakers on the program who paid no registration fee.

An itemized statement summarizing financial aspects of the Conference is appended.

SELECTION OF SITE:

The only sites considered for the 1970 Conference were at Florida beaches. The Chairman received invitations from Miami, Sarasota, the Cape Canaveral area, as well as an invitation to return to the Tides. Since the sentiments of the committee for the Conference were that we should return to Florida, other sites in the Southeast were not seriously considered for 1970. There were few complaints with the Tides as the site of the 1969 Conference. Consequently, the Chairman, after much vacillation between the Tides and one of the Cape Canaveral sites, decided to return to the same site for a second year.

CONCLUSION AND RECOMMENDATIONS:

Just before the last session the Chairman solicited comments about the Conference which would give assistance in planning such meetings in the future. Although the sample was admittedly biased, there was uniform
satisfaction with the Florida location. There were individual suggestions that we (a) try to make arrangements for communal eating facilities at future meetings and that (b) copies or abstracts of the papers to be presented by distribution to some individuals before the Conference so that we might have "discussants" in order to stimulate discussion of the presentations. The Chairman has the following specific suggestions for those planning the next Summer Conference:

(1) Following the recommendations of the Chairman of the 1969 Conference, the registration fee should be increased to twenty dollars. Then if the number of nominees appears sufficiently large to predict a surplus, plans could be made for a meal or party or perhaps a second invited guest to be paid from Conference funds.

(2) Members of the Committee on Statistics could do more to support this activity. The support might take the form of (a) attendance, (b) nominations of more individuals to attend - especially those from outside their own institutions, and (c) follow-up contacts of those nominated to attend.

(3) The Chairman's list might well be enlarged. The roster of previous attendees should be reviewed for potential nominees.
<table>
<thead>
<tr>
<th>Institution</th>
<th>Invited</th>
<th>Registered</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Alabama</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Clemson University</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Duke University</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Emory University</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Florida State University</td>
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<td>2</td>
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<tr>
<td>University of Florida</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Georgia Institute of Technology</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>University of Georgia</td>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>Johns Hopkins University</td>
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<td>Virginia Polytechnic Institute</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>138</strong></td>
<td><strong>51</strong></td>
</tr>
</tbody>
</table>
TABLE 2

ATENDEES AT EACH SESSION
SREB SUMMER RESEARCH CONFERENCE, 1970

<table>
<thead>
<tr>
<th></th>
<th>Morning</th>
<th>Special Events*</th>
<th>Evening</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>41</td>
<td>105</td>
<td>39</td>
</tr>
<tr>
<td>Tuesday</td>
<td>41</td>
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<tr>
<td>Wednesday</td>
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<tr>
<td>Thursday</td>
<td>45</td>
<td></td>
<td>32</td>
</tr>
<tr>
<td>Friday</td>
<td>29</td>
<td></td>
<td></td>
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</tbody>
</table>

*Includes family members and guests
FIGURE 1  DISTRIBUTION OF SIZE OF PARTY
SREB SUMMER RESEARCH CONFERENCE, 1970

Number of Registrants

<table>
<thead>
<tr>
<th>Size of Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
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<td>3</td>
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<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
</tbody>
</table>

Note: The four registrants in the "0" column were those who registered and did not attend. There were 52 registrants and 117 attendees.