SREB/ASA
SUMMER RESEARCH CONFERENCE

June 16 - 21, 1985
Boone, North Carolina

Program and registration information inside.
SUMMER RESEARCH CONFERENCE IN STATISTICS

The 1985 Summer Research Conference in Statistics, sponsored by the Southern Regional Education Board and the American Statistical Association, will be held June 16-21 at the Center for Continuing Education, Appalachian State University, Boone, N.C. The location and program have been arranged to accommodate a family vacation. Younger professionals are especially encouraged to attend. The registration fee is $50 for the full conference or $20 for one day. Limited support is available for selected full-time students and the registration fee for this category is $20. A reception will be held on Sunday evening, June 16, and a steak dinner cook-out will be held on Tuesday evening (included in the registration fee).

Room reservations should be made directly by conference participants. A block of rooms will be held until May 16 at the University Center for Continuing Education, Appalachian State University, Boone, N.C. 28607. Rates for single rooms are $36, double rooms $48, and for each additional occupant, $4. The phone numbers are (800) 222-8636 (in N.C.), (800) 438-6022 (Eastern U.S.), or (704) 264-5050. When registering for rooms, ask for rooms being held for the SREB Conference and advise the reservationist of special requirements (e.g. wheelchair access). A room guarantee is required and this deposit may be forfeited if cancellation is made after May 16.

Boone, N.C. is accessed primarily by automobile. The Charlotte, N.C., Greensboro, N.C. and Tri-Cities Airports are all approximately two hours away by auto. For those not driving to the conference or for more information on local arrangements or the program call Klaus Hinkelmann (703) 961-5657 or Walt Cummings (919) 248-4760.

PROGRAM

Sunday, June 16

Registration and Informal Reception

Monday, June 17

9:00 a.m. - 12:00 noon

STATISTICAL PROCESS CONTROL

Chair: Paul Minton, Virginia Commonwealth University

John Philpott (University of Tennessee): "Concepts and Examples of Multivariate Control Charts"

David Sylvester (University of Tennessee): "Quality and Productivity in Non-Manufacturing Operations: Directions for Statistical Process Control"

Discussant: William H. Woodall, University of Southwestern Louisiana
7:00 p.m. - 9:00 p.m.

DENSITY ESTIMATION

Chair/Discussant: James R. Thompson, Rice University

William J. Padgett (University of South Carolina): "Non-parametric Estimation of Density and Hazard Rate Function when Samples are Censored"

Tuesday, June 18

9:00 a.m. - 12:00 noon

ROBUSTNESS

Chair: Allison R. Manson, North Carolina State University

Donald R. Jensen (Virginia Polytechnic Institute and State University): "Robust Properties of Normal-Theory Procedures"

Stamatis Cambanis (University of North Carolina - Chapel Hill): "Similarities and Contrasts between Gaussian and other Stable Models"

2:00 p.m. - 4:00 p.m.

ARTIFICIAL INTELLIGENCE

Chair: Mike Perry, Appalachian State University

Loren Cobb (Medical University of South Carolina): "Statistics and Artificial Intelligence"

Wednesday, June 19

9:00 a.m. - 12:00 noon

STATISTICS AND COMPUTERS

Chair/Discussant: Hale Sweeney, Burroughs Wellcome Co.


David Allen (University of Kentucky): "Statistical Languages for Microcomputers"

7:00 p.m. - 9:00 p.m.

STATISTICAL APPLICATIONS IN THE TEXTILE INDUSTRY

Chair: Randall K. Spoeri, American Statistical Association
Frederick W. Morgan (J. P. Stevens): "Statistical Process Control in Textiles"

Richard Potthoff (Burlington Industries): "Assessing Whether a Cloth Treatment is Effective in a Wear Test Under a Complicated Model"

Thursday, June 20

9:00 a.m. - 12:00 noon

LINEAR MODELS

Chair: David G. Herr, University of North Carolina - Greensboro

Robert E. Johnson (Virginia Commonwealth University): "A Comparison of Three Analyses of Variance of Factorial Designs"

Giles Warrack (University of North Carolina - Greensboro): "A Likelihood Ratio Test of Order Restricted Hypotheses: A Geometric View"

Discussant: James W. Neill, Texas Tech University

7:00 p.m. - 9:00 p.m.

COMPUTATIONAL STATISTICS

Chair: Richard G. Krutchkoff, Virginia Polytechnic Institute and State University

Sallie Keller-McNulty (University of North Carolina - Greensboro) and William J. Kennedy (Iowa State University): "Error-Free Matrix Inverses and Solutions to Linear Least Squares Equations"

Discussant: Donald S. Burdick, Duke University

Friday, June 21

9:00 a.m. - 12:00 noon

SAMPLING AND INFERENCE

Chair: Larry Ringer, Texas A&M University

Malay Ghosh (University of Florida): "Robust Bayes and Empirical Bayes Analysis in Finite Population Sampling"

James Chromy (Research Triangle Institute): "Survey Cost Minimization under Multiple Variance Constraints"

Discussant: Dipak K. Dey, Texas Tech University
Registration Form
1985 Summer Research Conference on Statistics
Appalachian State University
Center for Continuing Education

Name_________________________________ Phone No._____
Address______________________________

Registration Fee (Includes cook-out) $50.00
1 day Registration (day______) $20.00
Full-time Student $20.00
________ additional cook-out guests @ $8 $____

Make check payable to SREB TOTAL $____

Return to: Klaus Hinkelmann, Department of Statistics,
Virginia Polytechnic Institute and State University,
Blacksburg, VA 24061.
BOONE AREA 1985 SEASON RATES

ATTRactions:

THE BLOWING ROCK (295-7111)
On U.S. 321 in Blowing Rock - Opens April 1 through October. Adults $2, children 6-11 $1, under age 6 free. Open daily from 8 a.m. - 8 p.m. July 4th fireworks.

CHURCHES OF THE FREScoes IN ASHE COUNTY (919-982-3076)
Located at Holy Trinity Church in Glendale Springs and at St. Mary's Episcopal Church in West Jefferson. Open all year, 24 hours a day. Guide service provided by appointment. Mission House open 6:00 a.m. - 9:00 p.m. No admission charge.

DANIEL BOONE NATIVE GARDENS (264-2819)
Located adjacent to Horn in The West - Open daily (weather permitting) May 1st through Mid-October from 10 a.m. - 6 p.m.; until 8 p.m. during Horn In The West season. Adults $5, children 12 & under free if accompanied by adult. School & Scout groups free. Season pass $1.

GOODWIN GUILD WEAVERS (295-3577)
Located on 321 By-Pass near traffic light - open year round. Weaving Hours: Monday-Friday 8:00 - 4:30. Craft Shop Hours: Monday-Friday: 8:00 - 5:30; Saturday 9:30-5:30. No admission charge. Winter - hours are subject to change due to weather.

GRANDFATHER MOUNTAIN (733-2013)
On U.S. 221 near Linville - Open April 1 through November 15th daily from 8 a.m. - dusk. Open weekends (weather permitting) in winter 9 a.m. - 4 p.m. Adults $5, children 4-12 $3, under age 4 free. Net rates to groups of 20 or more: $4 for adults, $2 for children.

HORN IN THE WEST (264-2120)
Performe in the Daniel Boone Amphitheatre in Boone - Open June 21 through August 17th. Performances nightly at 8:30 except Monday. Adults reserved $8, Adult general $7; children 13 and under reserved $4.00, general children $3.50. Group rates available for 12 or more.

LINVILLE CAVES (756-4171)
On U.S. 221 between Marion & Linville - Open 9 a.m.-6 p.m., April - October - 9 a.m.-4:30 p.m., November through March. Adults $2.50, children ages 5-11 $1.50, children under 5 free. Groups of 25 or more $2, no reductions for children.

LINVILLE FALLS
A series of two falls, upper at 12 feet and lower at 90 feet, plunges into the 2,000 foot deep Linville Gorge. Parking area at Milepost 316 on the Parkway. A one-mile round trip hike leads to the falls. Rest rooms along the way. Open year round. No admission charge.

MART GENERAL STORE (Main Store: 963-6511; Annex: 963-6513)
On Highway 194 in Valle Crucis, 3 miles off Highway 105; Monday through Saturday 6:30 a.m.- 6:30 p.m. (Annex: 10-6), Sunday 1 p.m. - 6 p.m. No admission charge.

MOSES H. CONE ESTATE & CRAFT CENTER (295-7938)
On the Blue Ridge Parkway at Milepost 294 at the Cone Memorial Park - Open May 1 through October 31st. Craft Center Hours: 9:00 a.m. - 5:00 p.m., 7 days a week. No admission charge.

MYSTERY HILL (264-2792)
On U.S. 321-221 between Boone & Blowing Rock - Open June through August 8 a.m. - 8 p.m.; September through May 9 a.m.-5 p.m.; Adults $4, Children 7-12 $2.00, tots are admitted free, group rates available. Senior Citizens $3.50. Season Pass: $5.00 adults, $3.00 children.

TWEETSIE RAILROAD (264-9061)
On U.S. 321 between Boone & Blowing Rock - Open May 26th - October 28th: Adults $8, children 4-12 $7, children under age 4 are admitted free. Hours: May 26th-June 11: 9-5 weekdays & 9-6 weekends; June 11th - Labor Day: 9-6 daily; Labor Day - October 31, 9-3 weekdays and 9-6 weekends. Groups of 20 or more $1.50 discount per person with two complimentary tickets.

ASHE COUNTY CHEESE (919-246-2501)
On Main and Fourth Street in downtown West Jefferson - Open Year Round - Monday-Saturday from 8:30 - 4:30 p.m. Guide service provided. No admission charge. Cheese available for purchase. Groups should call in advance.

BOONE AREA CHAMBER OF COMMERCE: 704-264-2225
NORTH CAROLINA HIGH COUNTRY HOST:
In State - 1-800-222-7515
Out of State - 1-800-438-7500
STATEMENT OF RECEIPTS AND DISBURSEMENTS

1985 SUMMER RESEARCH CONFERENCE

Center for Continuing Education
Appalachian State University
Boone, NC

June 16 – 21, 1985

RECEIPTS:

<table>
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<th>Item</th>
<th>Amount</th>
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<td>39 Full registrations @$50</td>
<td>1,950.00</td>
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<tr>
<td>11 One-day registrants @$20</td>
<td>220.00</td>
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<tr>
<td>3 Student registrants @$20</td>
<td>60.00</td>
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<tr>
<td><strong>Total participants</strong></td>
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<tr>
<td>36 Extra banquet guests @$8</td>
<td>288.00</td>
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<td><strong>Totals</strong></td>
<td><strong>$2,518.00</strong></td>
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DISBURSEMENTS:

Refunds (1 full registrant, 1 extra banquet guest) 58.00

Conference expenses:

Center for Continuing Education, ASU
(banquet, refreshments, AV) 2,066.37
Entertainment 75.00
Other refreshments 109.07

2,250.44

Conference arrangements: VPI&SU
(mailing, telephone, copying, name tags) 209.56

$2,518.00

Respectfully submitted,

K. Hinkelmann
October 3, 1985
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K. Hinkelmann  
October 3, 1985