**SRCOS SUMMER RESEARCH CONFERENCE ON STATISTICS**

Unicoi State Park    Helen, GA    June 11 - 15, 1989

| Sunday, June 11 | Registration | 4:00 - 7:00 PM |
|                 | Informal Reception | 7:00 - 9:00 |

**Monday, June 12**

**ASA 150 SESSION: LINEAR MODELS**

Presider/Discussant: David Allen, University of Kentucky

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter/Institution</th>
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<tbody>
<tr>
<td>9:00 - 10:00 AM</td>
<td>“Recent Developments in the Analysis of Mixed Models”</td>
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<td>Ronald R. Hocking, Texas A &amp; M University</td>
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<td>10:00 - 10:15 AM</td>
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<td>10:45 - 11:45 AM</td>
<td>“Statistical Methods for the Analysis of Categorical Data: An Overview”</td>
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<td>Gary Koch, University of North Carolina</td>
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<td>11:45 - Noon</td>
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**SMOOTHING METHODS**

Presider/Discussant: Ed Frome, Oak Ridge National Laboratory

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<tbody>
<tr>
<td>7:00 - 7:45 PM</td>
<td>“The Use of Splines in Survival and Risk Analysis”</td>
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<td>Frank E. Harrell, Jr., Duke University Medical Center</td>
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<td>7:45 - 8:00 PM</td>
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<tr>
<td>8:00 - 8:45 PM</td>
<td>“Analyzing Data Using Linear Smoothers”</td>
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<td>Doug Nychka, North Carolina State University</td>
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<td>8:45 - 9:00 PM</td>
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**Tuesday, June 13**

**MODELING BIOLOGICAL SYSTEMS**

Presider/Discussant: Michael Kutner, Emory University

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<th>Time</th>
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<tbody>
<tr>
<td>9:00 - 10:00 AM</td>
<td>“Statistical Modeling of Infectious Disease Data: Theory &amp; Applications”</td>
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<td>Ira Longini, Jr., Emory University</td>
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<td>10:00 - 10:15 AM</td>
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<td>10:15 - 10:45 AM</td>
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<td>10:45 - 11:45 AM</td>
<td>“Generalized Compartmental Modeling with Non-Exponential Retention Time”</td>
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<td>James Matis, Texas A &amp; M University</td>
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<td>11:45 - Noon</td>
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**TOPICS IN STATISTICAL COMPUTING AND GRAPHICS**

Presider/Discussant: Doug Nychka, North Carolina State University

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<tr>
<th>Time</th>
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<tr>
<td>2:00 - 2:45 PM</td>
<td>“Symbolic Numeric Solutions to Differential Equations and Applications to Biological Models”</td>
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<td>David Allen, University of Kentucky</td>
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<td>2:45 - 3:00 PM</td>
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<td>3:00 - 3:45 PM</td>
<td>“Minimax and Maximin Distance and Statistical Design”</td>
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<td>Mark Johnson, Georgia Institute of Technology</td>
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<td>3:45 - 4:00 PM</td>
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<tr>
<td>6:30 PM</td>
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<td>Evening at Lakeside BBQ</td>
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**Wednesday, June 14**

**BAYES AND EMPIRICAL BAYES**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker and Institution</th>
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<tbody>
<tr>
<td>8:30 - 9:30 AM</td>
<td>&quot;Bayes and Empirical Bayes: An Introduction&quot; Richard Krutchkoff, Virginia Polytechnic Institute &amp; State University</td>
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<tr>
<td>9:30 - 9:45 AM</td>
<td>Break</td>
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<tr>
<td>9:45 - 10:15 AM</td>
<td>&quot;Bayes and Empirical Bayes: Examples&quot; Harry Martz, Los Alamos National Laboratory</td>
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<tr>
<td>10:15 - 11:15 AM</td>
<td>Discussion</td>
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**Poster Session (Contributed)**

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<tr>
<th>Time</th>
<th>Speaker and Institution</th>
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<tbody>
<tr>
<td>11:30 - 1:00 PM</td>
<td>Xin M. Tu, Donald S. Burdick, David W. Millican, and Linda B. McGown, Duke University</td>
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<td>&quot;Canonical Correlation Technique for Rank Estimation of an Excitation-Emission Matrix&quot;</td>
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<tr>
<td>11:30 - 1:00 PM</td>
<td>Mahmoud Seyedsadr, Wayne State University, and Paul J. Cornelius, University of Kentucky</td>
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<td>&quot;On Suitability of the Summation Formula for Combining Effects of Two Factors in a Two-Way Analysis of Variance&quot;</td>
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**INDUSTRIAL STATISTICS**

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<tr>
<th>Time</th>
<th>Speaker and Institution</th>
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<tbody>
<tr>
<td>7:00 - 8:15 PM</td>
<td>&quot;Research Opportunities in Experimental Design and Quality Improvement&quot; C.F. Jeff Wu, University of Waterloo</td>
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<tr>
<td>8:15 - 9:00 PM</td>
<td>Discussion</td>
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**Thursday, June 15**

**APPLICATIONS OF MODERN METHODS IN STATISTICS**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>9:00 - 10:00 AM</td>
<td>&quot;Some New Developments in Experiments Involving Mixtures&quot; John Cornell, University of Florida</td>
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<tr>
<td>10:00 - 10:15 AM</td>
<td>Break</td>
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<tr>
<td>10:15 - 10:45 AM</td>
<td>&quot;Parametric Statistical Modeling: The Hierarchical and Empirical Bayes Perspectives&quot; Carl Morris, University of Texas</td>
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<tr>
<td>11:45 - Noon</td>
<td>Discussion</td>
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- Thomas Wehrly (ASA), Texas A & M University

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