Conference Program

International Conference on Reliability and Survival Analysis 2003  
(ICRSA2003)

Organized by the Department of Statistics  
and the Center for Reliability and Quality Sciences  
University of South Carolina, Columbia

Partial Support from the  
US National Science Foundation (NSF),  
US Army Research Office (ARO),  
US National Institutes of Health (NIH),  
US National Cancer Institute (NCI),  
and College of Science and Mathematics (COSM),  
University of South Carolina

May 21-24, 2003  
Russell House  
University of South Carolina  
Columbia, South Carolina, USA
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Conference Program Committee

- Edsel A. Peña, (Program Co-Chair), Department of Statistics, University of South Carolina.
- William J. Padgett, (Program Co-Chair), Department of Statistics, University of South Carolina.
- James Lynch, Department of Statistics, University of South Carolina.
- Odd Aalen, Section of Medical Statistics, University of Oslo, Norway.
- Terje Aven, Stavanger University, Norway.
- Donna Baker, Los Alamos National Laboratory, USA.
- Henry Block, Department of Statistics, University of Pittsburgh, USA.
- Martin Crowder, Department of Mathematics, Huxley Building, Imperial College, London, UK.
- Nader Ebrahimi, Department of Mathematics, Northern Illinois University, USA.
- Luis Escobar, Department of Experimental Statistics, Louisiana State University, USA.
- Nancy Flournoy, Department of Statistics, University of Missouri, Columbia, USA.
- Niels Keiding, University of Copenhagen, Denmark.
- John Klein, Department of Biostatistics, Medical University of Wisconsin, USA.
- Lynn Kuo, Department of Statistics, University of Connecticut, USA.
- Uwe Jensen, Department of Stochastics, University of Ulm, Germany.
- Sallie Keller-McNulty, Los Alamos National Laboratory, USA.
- Ian McKeague, Department of Statistics, Florida State University, USA.
- William Q. Meeker, Department of Statistics, Iowa State University, USA.
- Min Xie, Department of Industrial and Systems Engineering, National University of Singapore, Singapore.
- David Oakes, Department of Biostatistics, University of Rochester, USA.
- Frank Samaniego, Department of Statistics, University of California at Davis, USA.
- Thomas Savits, Department of Statistics, University of Pittsburgh, USA.
- Robert Strawderman, Department of Biological Statistics and Computational Biology, Cornell University, USA.
- Jane-Ling Wang, Department of Statistics, University of California, Davis, CA, USA.
- Mei-Cheng Wang, Department of Biostatistics, Johns Hopkins University, USA.

Local Arrangements and Registration

Local arrangements, registration, and housing reservations for the conference were handled by Mr. Tim Mesaric and the University of South Carolina Continuing Education.
Welcome to ICRSA 2003

On behalf of the faculty and the students of the Department of Statistics of the University of South Carolina, Columbia, we, the organizers of the International Conference on Reliability and Survival Analysis (ICRSA) 2003, would like to welcome all the participants of this Conference to the University of South Carolina, the City of Columbia, and South Carolina. We appreciate your participating in this conference and hope that this will be a productive venue for all participants to further their research and interaction with other researchers in the areas of reliability, survival analysis, and related areas. We further hope that by having researchers in both reliability and survival analysis, this will enhance the synthesis of stochastic models and statistical inference methods in these two active areas of research.

We would like to thank also the Program Committee members for organizing invited sessions on a varied range of topics. The participation of all the invited speakers, contributed paper speakers, and poster presenters, are very much appreciated.

We would like also to acknowledge the support provided by the US National Science Foundation, the US Army Research Office, and the US National Institutes of Health and the National Cancer Institute, which enabled us to provide partial travel support to graduate student participants, the invited speakers, and other participants who needed some travel support. We also acknowledge the financial support provided by Dr. Gerard Crawley, Dean of the College of Science and Mathematics.

Enjoy the Conference, and please feel free to approach any of us if there is anything else that we could do to make this a successful conference for you.

The Organizers,
Edsel A. Peña
William J. Padgett
James D. Lynch
Tim Mesaric
Conference Program

Wednesday
May 21, 2003

7:00–10:00PM
Registration/Reception/Mixer
Lobby of South Quad Dormitory

Thursday
May 22, 2003

7:30–8:45
Breakfast and Registration
Russell House
<table>
<thead>
<tr>
<th>Session Number</th>
<th>01</th>
</tr>
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<tbody>
<tr>
<td>Session Title</td>
<td>Welcoming Session</td>
</tr>
<tr>
<td>Time and Day</td>
<td>8:45–9:00, Thursday</td>
</tr>
<tr>
<td>Place</td>
<td>Russell House Ballroom</td>
</tr>
<tr>
<td>Session Organizer</td>
<td>Organizers</td>
</tr>
<tr>
<td>Session Chair</td>
<td>James D. Lynch, University of South Carolina</td>
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</tbody>
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8:45–8:49
Welcome Remarks
James D. Lynch
Chairman, Department of Statistics
University of South Carolina

8:49–8:54
Welcome Remarks
Jerome D. Odom
Vice-President for Academic Affairs and Provost
University of South Carolina

8:54–9:00
Welcome Remarks
Andrew A. Sorensen
President
University of South Carolina

<table>
<thead>
<tr>
<th>Session Number</th>
<th>02 (Plenary)</th>
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<tbody>
<tr>
<td>Session Title</td>
<td>State of Survival Analysis</td>
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<tr>
<td>Time and Day</td>
<td>9:00–9:45, Thursday</td>
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<tr>
<td>Place</td>
<td>Russell House Ballroom</td>
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<tr>
<td>Session Organizer</td>
<td>Organizers</td>
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<tr>
<td>Session Chair</td>
<td>William J. Padgett, University of South Carolina</td>
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9:00–9:45
A Quick Tour of Modern Survival Analysis
Lee Jen Wei
Harvard University

9:45–10:00
Coffee Break
Russell House
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<tr>
<th>Session Number</th>
<th>03 (Invited)</th>
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<tbody>
<tr>
<td>Session Title</td>
<td>Dynamic Models of Failure Time Data</td>
</tr>
<tr>
<td>Time and Day</td>
<td>10:00–11:30, Thursday</td>
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<tr>
<td>Place</td>
<td>Room 203, Russell House</td>
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<tr>
<td>Session Organizer</td>
<td>Odd Aalen, University of Oslo, Norway</td>
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<tr>
<td>Session Chair</td>
<td>Odd Aalen, University of Oslo, Norway</td>
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</tbody>
</table>

10:00–10:30
*Modelling, estimation and inference with time-varying effects in survival analysis*

**Thomas Scheike**
University of Copenhagen, Denmark

10:30–11:00
*Hazard as a stochastic process: A Levy process model of individual frailty*

**Hakon K. Gjessing**, Odd O. Aalen, Nils Lid Hjort
Norwegian Institute of Public Health, Norway

11:00–11:30
*On a dynamic approach to the analysis of multivariate failure time data*

**Odd O. Aalen**, Johan Fosen, Harald Fekjær, Ørnulf Borgan
University of Oslo, Norway

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<tr>
<th>Session Number</th>
<th>04 (Invited)</th>
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<tbody>
<tr>
<td>Session Title</td>
<td>Bayesian Methods in Survival Analysis and Reliability</td>
</tr>
<tr>
<td>Time and Day</td>
<td>10:00–11:30, Thursday</td>
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<tr>
<td>Place</td>
<td>Room 205, Russell House</td>
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<tr>
<td>Session Organizer</td>
<td>Lynn Kuo, University of Connecticut</td>
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<tr>
<td>Session Chair</td>
<td>Lynn Kuo, University of Connecticut</td>
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10:00–10:30
*Bayesian Analysis of Competing Risks*

**Sanjib Basu**
Northern Illinois University

10:30–11:00
*Bayesian Analysis of Nonproportional Hazards Models for Survival Data*

**Tathagata Banerjee**, Ming-Hui Chen*, Dipak Dey
University of Connecticut

11:00–11:30
*Network Reliability Assessment in a Random Environment*

**Suleyman Ozekici**, Refik Soyer*
George Washington University
### Session 5 (Invited)

**Session Title:** Planning Accelerated Tests  
**Time and Day:** 10:00–11:30, Thursday  
**Place:** Room 303, Russell House  
**Session Organizer:** William Meeker, Iowa State University  
**Session Chair:** William Meeker, Iowa State University

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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</table>
| 10:00–10:30 | Bayesian Optimum Planning for Accelerated Life Tests  
Yao Zhang*, William Q. Meeker  
Pfizer Global Research and Development |
| 10:30–11:00 | Accelerated Life Test Plans Robust to Misspecification of Stress-Life Relationship under the Lognormal or Weibull Distributions  
Francis G. Pascual  
Washington State University |
| 11:00–11:30 | Test Planning for Accelerated Destructive Degradation Tests  
Luis A. Escobar*, William Q. Meeker  
Louisiana State University |

### Session 6 (Invited)

**Session Title:** Frailty Models in Survival Analysis  
**Time and Day:** 10:00–11:30, Thursday  
**Place:** Room 305, Russell House  
**Session Organizer:** David Oakes, University of Rochester  
**Session Chair:** David Oakes, University of Rochester

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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</thead>
</table>
| 10:00–10:30 | Non-parametric estimation for baseline hazard function and covariate effects with time-dependent covariates  
Amita Manatunga*, Feng Gao, Shande Chen  
Emory University |
| 10:30–11:00 | Robust Inference for Proportional Hazards Univariate Frailty Regression Models  
Michael R. Kosorok  
University of Wisconsin, Madison |
| 11:00–11:30 | Combining Stratified and Unstratified Log-Rank Tests for Matched Pairs Survival Data  
David Oakes*, Changyong Feng  
University of Rochester |
11:30–1:30
Lunch Break
(On Your Own)

12:00–6:00
Poster Session/Displays I
(See list of Presenters at End of Program)

<table>
<thead>
<tr>
<th>Session Number</th>
<th>07 (Invited)</th>
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<tbody>
<tr>
<td>Session Title</td>
<td>New Ideas in Reliability and Survival Analysis</td>
</tr>
<tr>
<td>Time and Day</td>
<td>1:30–3:00, Thursday</td>
</tr>
<tr>
<td>Place</td>
<td>Room 203, Russell House</td>
</tr>
<tr>
<td>Session Organizer</td>
<td>Terje Aven, Stavanger University, Norway</td>
</tr>
<tr>
<td>Session Chair</td>
<td>Uwe Jensen, University of Ulm, Germany</td>
</tr>
</tbody>
</table>

1:30–2:00
Covariate Order Tests for Covariate Effect
Jan Terje Kvaloy
Stavanger University College, Norway

2:00–2:30
How to use expert judgement in regularity analyses to obtain good predictions
Atle Hjorteland
Statoil, Norway

2:30–3:00
Aalen’s Additive Risk Model Applied to Software Reliability
Axel Gandy
University of Ulm, Germany
**Session Number**: 08 (Invited)  
**Session Title**: Modelling with Frailties  
**Time and Day**: 1:30–3:00, Thursday  
**Place**: Room 205, Russell House  
**Session Organizer**: Nader Ebrahimi, Northern Illinois University  
**Session Chair**: Nader Ebrahimi, Northern Illinois University

**1:30–2:00**  
**The role of frailty models in genetics**  
*Philip Hougaard*  
Biostatistical Department, Lundbeck, Denmark

**2:00–2:30**  
**Fitting the Frailty Distribution Using Empirical Bayes**  
*Pamela Ohman-Strickland*  
UMDNJ-School of Public Health

**2:30–3:00**  
**Inference in Frailty Measurement Error Models for Clustered Survival Data**  
*Xihong Lin*  
University of Michigan, Ann Arbor

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**Session Number**: 09 (Invited)  
**Session Title**: Semiparametric and Longitudinal Models  
**Time and Day**: 1:30–3:00, Thursday  
**Place**: Room 303, Russell House  
**Session Organizer**: Andrew Lawson  
**Session Chair**: Andrew Lawson, University of South Carolina

**1:30–2:00**  
**Semiparametric estimation in an accelerated failure model with time-dependent covariates**  
*Eric V. Slud*  
University of Maryland, College Park

**2:00–2:30**  
**A new model for joint analysis of an event process and associated longitudinal outcome**  
*Elizabeth H. Slate*, Edsel A. Peña  
Medical University of South Carolina

**2:30–3:00**  
**Estimating Load-Sharing Properties in a Dynamic Reliability System**  
*Paul Kvam*  
Georgia Tech University
**Session Number**: 10 (Invited)  
**Session Title**: The Relationship between Reliability and Quality  
**Time and Day**: 1:30–3:00, Thursday  
**Place**: Room 305, Russell House  
**Session Organizer**: Sallie Keller-McNulty and Donna Baker, Los Alamos National Laboratory  
**Session Chair**: Jerome Morzinski, Los Alamos National Laboratory

1:30–2:00  
**Process Quality and Reliability**  
**!!!WITHDRAWN!!!**  
Mark A. Anderson  
Honeywell-Los Alamos National Laboratory

2:00–2:30  
**Six Sigma and Reliability - Is There any Connection?**  
A. Blanton Godfrey  
Dean and Joseph D. Moore Professor, College of Textiles, NCSU

2:30–3:00  
**Reliability: The Other Dimension of Quality**  
William Q. Meeker  
Iowa State University

**Session Number**: 11 (Plenary)  
**Session Title**: State of Degradation and Failure Prediction Models  
**Time and Day**: 3:00–3:45, Thursday  
**Place**: Russell House Ballroom  
**Session Organizer**: Organizers  
**Session Chair**: Jeffrey A. Robinson, General Motors Research & Development Center, MI

3:00–3:45  
**Degradation Models and Failure Prediction**  
Jerry Lawless  
University of Waterloo, Canada

3:45–4:00  
**Coffee Break**
4:00–4:22
repairable systems and hazard-based goodness-of-fit tests
ma. zenia n. agustin*, edsel a. pena
southern illinois university at edwardsville

4:22–4:44
goodness of fit test based on order statistics
fazil alioglu aliev
baskent university, turkey

4:44–5:06
tests for trend under extended null hypotheses
g. elvebakk*, j. t. kvaløy, b. h. lindqvist
university of tromsø, norway

5:06–5:28
goodness of fit of a joint model for event time and nonignorable missing longitudinal quality of life data - a study
sneh gulati
Florida international university
**Session Number**: 13 (Contributed)  
**Session Title**: Inference Issues in Survival and Reliability Methods  
**Time and Day**: 4:00–5:30, Thursday  
**Place**: Room 205, Russell House  
**Session Organizer**: Contributed Talks  
**Session Chair**: Arzu Onar, University of Miami  

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>4:00–4:22</td>
<td>Information Sufficiency under Presence of Length-Biased Sampling Plan</td>
<td>Olcay Akman, Coastal Carolina University, South Carolina</td>
</tr>
<tr>
<td>4:22–4:44</td>
<td>Statistical Inference for Competing Risks Model via Empirical Likelihood</td>
<td>Yichuan Zhao*, Ian W. McKeage, Georgia State University</td>
</tr>
<tr>
<td>5:06–5:28</td>
<td>Empirical Likelihood for Cox Regression Model</td>
<td>Gengsheng Qin, Georgia State University</td>
</tr>
</tbody>
</table>

**Session Number**: 14 (Invited)  
**Session Title**: Weibull and Related Distributions  
**Time and Day**: 4:00-5:30, Thursday  
**Place**: Room 303, Russell House  
**Session Organizer**: Min Xie, National University of Singapore, Singapore  
**Session Chair**: Chin Diew Lai, Massey University, New Zealand  

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<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>4:00-4:30</td>
<td>On discrete Weibull distributions</td>
<td>Olivier Gaudoin, Institut National Polytechnique de Grenoble, France</td>
</tr>
<tr>
<td>4:30–5:00</td>
<td>Confidence intervals and joint confidence regions for the parameters of the Weibull distribution</td>
<td>Zhenmin Chen, Florida International University</td>
</tr>
<tr>
<td>5:00–5:30</td>
<td>Properties of some extended Weibull models with bathtub shaped failure rate function</td>
<td>Chin Diew Lai*, Min Xie, Massey University, New Zealand</td>
</tr>
</tbody>
</table>
Session Number: 15 (Invited)
Session Title: Ideas in Survival Analysis and Reliability
Time and Day: 4:00–5:30, Thursday
Place: Room 305, Russell House
Session Organizer: Luis Escobar, Louisiana State University
Session Chair: Luis Escobar, Louisiana State University

4:00–4:30
Resampling methods in relative risk models
Wenyu Jiang, Jack Kalbfleisch*
University of Michigan, Ann Arbor

4:30–5:00
First Hitting Time Models for Survival Data
G. A. Whitmore*, Mei-Ling Ting Lee
McGill University, Canada

5:00–5:30
A Class of Degradation Based Models for Reliability Analysis
Vijay Nair
University of Michigan, Ann Arbor

6:30–8:00
Mixer at Top of Carolina
Friday
May 23, 2003

7:00–8:30
Breakfast
Russell House

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<tr>
<th>Session Number</th>
<th>16 (Contributed)</th>
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<tbody>
<tr>
<td>Session Title</td>
<td>Algorithms and Computer-Intensive Methods</td>
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<tr>
<td>Time and Day</td>
<td>8:00–9:30, Friday</td>
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<tr>
<td>Place</td>
<td>Room 203, Russell House</td>
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<tr>
<td>Session Organizer</td>
<td>Contributed Talks</td>
</tr>
<tr>
<td>Session Chair</td>
<td>Webster West, University of South Carolina</td>
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8:00–8:22
*Characterization and Computation of the NPMLE with Univariate Censored Data*
Shuguang Song
The Boeing Company, Seattle, Washington

8:22–8:44
*Block Bootstrap Estimation of the Distribution of Cumulative Outdoor Degradation*
Victor Chan*, Soumendra N. Lahiri, William Q. Meeker
Western Washington University

8:44–9:06
*An EM Estimation of Distribution Functions with Accelerated Life Test Data*
!!!!WITHDRAWN!!!!
Linxiong Li
University of New Orleans

9:06–9:28
*Parameter Estimation from Censored Samples using the Expectation-Maximization Algorithm*
Chanseok Park
Clemson University
Session Number  17 (Contributed)
Session Title     Models and Analysis of Failure-Time Data
Time and Day       8:00–9:30, Friday
Place              Room 205, Russell House
Session Organizer  Contributed Talks
Session Chair      Ma. Zenia Agustin, Southern Illinois University, Edwardsville

8:00–8:22
Predicting Survival Based upon Attained Age in Patients with Cystic Fibrosis
Melinda Harder*, Hebe Quinton, Tom Lever, Joanne Maddock, Mark Detzer, Jonathan Zuckerman, Gerald O’Connor
Bates College

8:22–8:44
A Power Analysis for Tests Using Paired Lifetime Data
William J. Owen
University of Richmond

8:44–9:06
Optimal Progressive Censoring Plans for The Weibull Distribution
H. K. T. Ng*, P. S. Chan, N. Balakrishnan
Southern Methodist University

9:06–9:28
A Burr Type X Chain-of-Links Model
James G. Surles*, Donna D’Ambrosio
Texas Tech University
Session Number: 18 (Contributed)  
Session Title: Stochastic Process-Based Models  
Time and Day: 8:00–9:30, Friday  
Place: Room 303, Russell House  
Session Organizer: Contributed Talks  
Session Chair: Inmaculada Aban, University of Nevada, Reno

8:00–8:22  
Bayesian Approach in Warranty Cost Analysis: Non-zero Repair Time  
S. Chukova*, Y. Hayakawa  
Victoria University of Wellington, New Zealand

8:22–8:44  
Statistical Inference of a Modulated Gamma Process  
Ananda Sen, Nibedita Bandyopadhyay*  
Oakland University

8:44–9:06  
A Dynamic Model for a System of Softwares Following the Littlewood Software Reliability Model  
Marcus A. Agustin  
Southern Illinois University at Edwardsville

9:06–9:28  
Estimating the Convolution of Distributions Under the Koziol-Green Model of Random Censorship  
Ke Wu  
California State University, Fresno
8:00–8:22
**Attributable fractions for survival data**
Sven Ove Samuelsen, Geir Egil Eide*
Haukeland University Hospital and Section for Medical Statistics, Norway

8:22–8:44
**The Aalen Additive Hazard Model with Case-Cohort and Nested Case-Control Data**
Sven Ove Samuelsen
University of Oslo, Norway

8:44–9:06
**Statistical Analysis of Current Status Data with informative Observation Times**
(Tony) Jianguo Sun
University of Missouri

9:06–9:28
**A bivariate frailty model with cure fraction**
Andreas Wienke*, Paul Lichtenstein, Anatoli I. Yashin
Max Planck Institute for Demographic Research, Germany

9:30–10:15
**Nonparametric Inference for Repair Models**
Myles Hollander
Florida State University

10:15–10:30
Coffee Break
### Session 21 (Invited)
**Session Title**: Bayesian Methods in Reliability  
**Time and Day**: 10:30–12:00, Friday  
**Place**: Room 203, Russell House  
**Session Organizer**: Terje Aven, Stavanger University College, Norway  
**Session Chair**: Terje Aven, Stavanger University College, Norway

<table>
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<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>10:30–11:00</td>
<td><em>On nonparametric counting process models for software reliability</em></td>
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<tr>
<td>Uwe Jensen</td>
<td>University of Ulm, Germany</td>
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<tr>
<td>11:00–11:30</td>
<td><em>Heterogeneity modeling for recurrent events</em></td>
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<tr>
<td>Bo Henry Lindqvist</td>
<td>Norwegian University of Science and Technology, Norway</td>
</tr>
<tr>
<td>11:30–12:00</td>
<td><em>On how to approach uncertainty in reliability and availability analyses, using the Bayesian paradigm</em></td>
</tr>
<tr>
<td>Terje Aven</td>
<td>Stavanger University College, Norway</td>
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</tbody>
</table>

### Session 22 (Invited)
**Session Title**: Recent Advances in Survival Analysis  
**Time and Day**: 10:30–12:00, Friday  
**Place**: Room 205, Russell House  
**Session Organizer**: Jane-Ling Wang, University of California, Davis  
**Session Chair**: Jane-Ling Wang, University of California, Davis

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>10:30–11:00</td>
<td><em>On some statistical inference problems involving the bivariate mean residual function</em></td>
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<tr>
<td>Javier Rojo*, Musie Ghebremichael</td>
<td>Rice University</td>
</tr>
<tr>
<td>11:00–11:30</td>
<td><em>Recurrent Event Processes With Shape And Size Parameters</em></td>
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<tr>
<td>Mei-Cheng Wang</td>
<td>Johns Hopkins University</td>
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<tr>
<td>11:30–12:00</td>
<td><em>Empirical likelihood based survival function estimation for current status data</em></td>
</tr>
<tr>
<td>Ian McKeague</td>
<td>Florida State University</td>
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</tbody>
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Session Number 23 (Invited)
Session Title Regression Models and Recurrent Events
Time and Day 10:30–12:00, Friday
Place Room 303, Russell House
Session Organizer Organizers
Session Chair Ying Qing Chen, University of California, Berkeley

10:30–11:00
Robust tests for trials with recurrent events occurring over multiple treatment periods
Richard J. Cook*, Wei Wei
University of Waterloo, Canada

11:00–11:30
Linear Regression With Censored Data
Peter J. Smith
RMIT University, Australia

11:30–12:00
Variable Selection Methods in Nonparametric Accelerated Lifetime Regression Models
K. B. Kulasekera
Clemson University

Session Number 24 (Invited)
Session Title New Ideas in Reliability with Applications
Time and Day 10:30–12:00, Friday
Place Room 305, Russell House
Session Organizer Robert Launer, Army Research Office
Session Chair Robert Launer, Army Research Office

10:30–11:00
Stress-Strength Testing: Some Classical and Some New Formulations and Results
Francisco Samaniego
University of California, Davis

11:00–11:30
Bayes Methods in Repair Models
Jayaram Sethuraman
Florida State University

11:30–12:00
When Does Indefinite Testing Assure Infinite Trustworthiness?
Nozer D. Singpurwalla
George Washington University
12:00–12:15
Group Photo Session
Location: Front of Longstreet Theatre

12:15–2:00
Lunch Break
(On Your Own)

12:00–6:00
Poster Session/Displays II
(See list of Presenters at the End of Program)

<table>
<thead>
<tr>
<th>Session Number</th>
<th>25 (Invited)</th>
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<tbody>
<tr>
<td>Session Title</td>
<td>Bayesian Inference in Reliability and Survival Analysis</td>
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<tr>
<td>Time and Day</td>
<td>2:00–3:30, Friday</td>
</tr>
<tr>
<td>Place</td>
<td>Room 203, Russell House</td>
</tr>
<tr>
<td>Session Organizer</td>
<td>Organizers</td>
</tr>
<tr>
<td>Session Chair</td>
<td>Deb Sinha, Medical University of South Carolina</td>
</tr>
</tbody>
</table>

2:00–2:30
Bayesian Inference about the Ratio of Percentiles
Richard A. Johnson*, Songyong Sim
University of Wisconsin-Madison

2:30–3:00
Bayesian Nonparametric Estimation in a Series System or a Competing-Risks Model
Ram C. Tiwari
National Cancer Institute, NIH

3:00–3:30
Monte Carlo Methods for Bayesian Analysis of Survival Data Using Mixtures of Dirichlet Process Priors
Hani Doss*, Fred Huffer
Ohio State University
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<tr>
<td>Session Title</td>
<td>Competing Risks</td>
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<tr>
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<td>2:00–3:30, Friday</td>
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<tr>
<td>Place</td>
<td>Room 205, Russell House</td>
</tr>
<tr>
<td>Session Organizer</td>
<td>John Klein, Medical College of Wisconsin</td>
</tr>
<tr>
<td>Session Chair</td>
<td>Thomas Scheike, University of Copenhagen, Denmark</td>
</tr>
</tbody>
</table>

2:00–2:30  
*Cumulative Incidence Regression*  
**Jason P. Fine**  
University of Wisconsin, Madison  

2:30–3:00  
*Regression analysis of competing risks data using pseudo-observations*  
**Per Kragh Andersen**  
University of Copenhagen, Denmark  

3:00–3:30  
*Extensions and applications of the Cox-Aalen survival model*  
**Thomas H. Scheike, Mei-Jie Zhang**  
Medical College of Wisconsin  

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<tr>
<th>Session Number</th>
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<tr>
<td>Session Title</td>
<td>Models in Reliability and Survival Analysis</td>
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<td>Time and Day</td>
<td>2:00–3:30, Friday</td>
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<tr>
<td>Place</td>
<td>Room 303, Russell House</td>
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<tr>
<td>Session Organizer</td>
<td>Martin Crowder, Imperial College, United Kingdom</td>
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<tr>
<td>Session Chair</td>
<td>Paul Kvam, Georgia Tech University</td>
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2:00–2:30  
*Modelling Converging Hazards*  
**Robin Henderson**, Peter Barker  
Lancaster University, United Kingdom  

2:30–3:00  
*A flexible additive multiplicative hazard model*  
**Torben Martinussen**  
The Royal Veterinary and Agricultural University, Denmark  

3:00–3:30  
*Proportional Rates/Means Models for Clustered Recurrent Event Data*  
**Jianwen Cai**, Douglas E. Schaubel  
University of North Carolina at Chapel Hill
### Session 28 (Invited)

**Session Title**: Statistical Modelling in Reliability  
**Time and Day**: 2:00–3:30, Friday  
**Place**: Room 305, Russell House

**Session Organizer**: Frank Samaniego, University of California, Davis  
**Session Chair**: Frank Samaniego, University of California, Davis

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<th>Speaker</th>
<th>Institution</th>
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<tr>
<td>2:00–2:30</td>
<td><em>The Gompertz degradation model, functional equations and resulting distributions in one and two dimensions</em></td>
<td>Albert W. Marshall</td>
<td>University of British Columbia</td>
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<tr>
<td>2:30–3:00</td>
<td><em>The Physical Basis of Statistical Models in Reliability</em></td>
<td>Max Mendel</td>
<td>Boston Fund Services</td>
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<tr>
<td>3:00–3:30</td>
<td><em>Comparing Reliability Experiments with the Convolution Order</em></td>
<td>Moshe Shaked</td>
<td>University of Arizona</td>
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### Session 29 (Plenary)

**Session Title**: Multivariate Failure Times  
**Time and Day**: 3:30–4:15, Friday  
**Place**: Russell House Ballroom

**Session Organizer**: Organizers  
**Session Chair**: James R. Hebert, University of South Carolina

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<th>Speaker</th>
<th>Institution</th>
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<td>3:30–4:15</td>
<td><em>Aspects of the Analysis of Multivariate Failure Time Data</em></td>
<td>Ross L. Prentice</td>
<td>Fred Hutchinson Cancer Research Center and University of Washington</td>
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### Coffee Break  

**4:15–4:30**  
**Coffee Break**
**Session Number**: 30 (Invited)  
**Session Title**: Models Based on Poisson-Type Processes  
**Time and Day**: 4:30–6:00, Friday  
**Place**: Room 203, Russell House  
**Session Organizer**:  
**Session Chair**: Marcus Agustin, Southern Illinois University, Edwardsville

### 4:30–5:00

*On Stochastic Approximation Methods in Reliability*

**Gabriel V. Orman**  
"Transilvania" University of Brasov, Romania

### 5:00–5:30

*On Some Problems Relating to Model Selection for the Power Law Process*

**Asit P. Basu**, Mary Richardson  
University of Missouri-Columbia

### 5:30–6:00

*Estimating and Simulating NonHomogeneous Poisson Processes*

**Lawrence M. Leemis**  
The College of William and Mary

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**Session Number**: 31 (Invited)  
**Session Title**: Residual Life Functions  
**Time and Day**: 4:30–6:00, Friday  
**Place**: Room 205, Russell House  
**Session Organizer**:  
**Session Chair**: Kerrie Nelson, University of South Carolina

### 4:30–5:00

*Analysis of proportional mean residual life model in presence of censoring*

**Ying Qing Chen**  
University of California, Berkeley

### 5:00–5:30

*A characterization of the multivariate normal distribution by using the hazard gradient*

**Jorge Navarro**, Jose M. Ruiz  
Universidad de Murcia, Spain

### 5:30–6:00

*Information in Lifetime and Residual Lifetime Distributions*

**Nader Ebrahimi**, Ehsan S. Soofi*  
University of Wisconsin-Milwaukee
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<td>Quality of Life and Accelerated Testing</td>
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<td>Organizers</td>
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<tr>
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<td>John Spurrier, University of South Carolina.</td>
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### 4:30–5:00

**Quality of Life — Adjusted Survival Analysis: Parametrics and Beyond**  
Pranab Kumar Sen  
University of North Carolina, Chapel Hill

### 5:00–5:30

**A General Bayes Exponential Inference Model for Accelerated Life Testing**  
J. René Van Dorp, Thomas A. Mazzuchi*  
George Washington University

### 5:30–6:00

**A Bibliography of Accelerated Test Plans**  
Wayne B. Nelson  
Schenectady, NY

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<td>Survival Analysis: Some Current Research in Biostatistics</td>
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<td>Session Organizer</td>
<td>Robert Strawderman, Cornell University</td>
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<td>Session Chair</td>
<td>Robert Strawderman, Cornell University</td>
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### 4:30–5:00

**Marginal Estimation in Multistage Models Using Current Status Data**  
Somnath Datta  
University of Georgia

### 5:00–5:30

**Estimation of Optimal Treatment Strategies for Survival Outcomes**  
Jamie Robins  
Harvard University

### 5:30–6:00

**Semiparametric Bivariate Location-Shift Regression Model for Estimation of the Joint Effect of Treatment on Time to Disease Progression and Death**  
!!!!WITHDRAWN!!!!  
Daniel O. Scharfstein*, James M. Robins, Mark J. van der Laan  
Johns Hopkins University
6:30–9:30
Happy Hour
Dinner
Talk
(at the Russell House Ballroom)

Session Number 34 (Banquet and Plenary)
Session Title ‘Surviving Contemporary Times’
Time and Day 8:30–9:15PM, Friday
Place Russell House Ballroom
Session Organizer Organizers
Session Chair Thomas Mazzuchi, George Washington University

8:30–9:15
Surviving Financial Risk
Nozer Singpurwalla
George Washington University
Saturday
May 24, 2003

7:00–8:30
Breakfast
Russell House

Session Number: 35 (Invited)
Session Title: Bayesian Modelling in Survival Analysis and Reliability
Time and Day: 8:00–9:30, Saturday
Place: Room 203, Russell House
Session Organizer: Organizers
Session Chair: Alyson Wilson, Los Alamos National Laboratory

8:00–8:30
*Some Issues in Bayesian Modeling of Health Surveillance Data*
Andrew B. Lawson  
University of South Carolina

8:30–9:00
*Models and Bayesian analysis of recurrent events data with dependent termination*
Debayajoti Sinha  
Medical University of South Carolina

9:00–9:30
*Uncertainty in Counts and Operating Time in Estimating Poisson Occurrence Rates*
Harry F. Martz*, Michael S. Hamada  
Los Alamos National Laboratory
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<td>Adaptive Designs with Delayed Responses</td>
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<td>Room 205, Russell House</td>
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<tr>
<td>Session Organizer</td>
<td>Nancy Flournoy, University of Missouri, Columbia</td>
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<tr>
<td>Session Chair</td>
<td>William Rosenberger, University of Maryland at Baltimore County</td>
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</tbody>
</table>

8:00–8:30
The accelerated biased coin up-and-down-design in phase I trials
Mario Stylianou*, Dean Follmann
National Heart Lung and Blood Institute

8:30–9:00
William F. Rosenberger*, Feifang Hu
University of Maryland, Baltimore County

9:00–9:30
Handling Delayed Response in Response-Adaptive Randomization Procedures Using Urn Models
Feifang Hu*, William F. Rosenberger, Z. D. Bai
University of Virginia

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<td>Session Title</td>
<td>Models and Inference for Reliability Systems</td>
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<td>Time and Day</td>
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<td>Room 303, Russell House</td>
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<tr>
<td>Session Organizer</td>
<td>Organizers</td>
</tr>
<tr>
<td>Session Chair</td>
<td>Olcay Akman, Coastal Carolina University</td>
</tr>
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8:00–8:30
Probabilistic and Statistical Analysis of S-Order Old Age Life Distributions
Ibrahim A. Ahmad
University of Central Florida

8:30–9:00
Stochastic Comparisons of Parallel Systems
Subhash Kochar*, Baha-Eldin Khaledi
Indian Statistical Institute, India

9:00–9:30
A Survival Model of Medical Treatments: Life (Function) after Death
Gabor J. Szekely
Bowling Green State University
**Session Number** 38 (Invited)

**Session Title** Semiparametric Modelling in Survival Analysis

**Time and Day** 8:00–9:30, Saturday

**Place** Room 305, Russell House

**Session Organizer** Ian McKeague, Florida State University

**Session Chair** Ian McKeague, Florida State University

### 8:00–8:30

*Semiparametric Time-Varying Coefficients Regression Model for Longitudinal Data*

**Yanqing Sun**
University of North Carolina, Charlotte

### 8:30–9:00

*Double robust estimation of causal parameters with censored longitudinal data*

**Mark J. van der Laan**
University of California, Berkeley

### 9:00–9:30

*Tests for Comparing Mark-specific Hazards and Cumulative Incidence Functions Between Two Groups, with Application to HIV Vaccine Trials*

**Peter Gilbert**
Fred Hutchinson Cancer Research Center, Seattle

### 9:30–9:45

Coffee Break
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<th>Session Number</th>
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<tr>
<td>Session Title</td>
<td>Aspects of Reliability and Risk Modelling</td>
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<tr>
<td>Time and Day</td>
<td>9:45–11:15, Saturday</td>
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<tr>
<td>Place</td>
<td>Room 203, Russell House</td>
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<tr>
<td>Session Organizer</td>
<td>Organizers</td>
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<tr>
<td>Session Chair</td>
<td>Lori Thombs, University of South Carolina</td>
</tr>
</tbody>
</table>

**9:45–10:15**

*On discrete time minimal repair processes*

Felix Belzunce*, E. Ortega, Jose-Maria Ruiz  
Univ. Murcia Campus de Espinardo, Spain

**10:15–10:45**

*X-Testing using Binary Data with Applications to Reliability Demonstration Plans*

David Mease  
University of Michigan, Ann Arbor

**10:45–11:15**

*Multivariate extremes, max-stable processes and the analysis of financial risk*

Richard L. Smith*, Zhengjun Zhang  
University of North Carolina, Chapel Hill

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<tr>
<th>Session Number</th>
<th>40 (Invited)</th>
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<td>Session Title</td>
<td>Reliability Classes of Distributions</td>
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<tr>
<td>Place</td>
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<tr>
<td>Session Organizer</td>
<td>Thomas Savits, University of Pittsburgh</td>
</tr>
<tr>
<td>Session Chair</td>
<td>Thomas Savits, University of Pittsburgh</td>
</tr>
</tbody>
</table>

**9:45–10:15**

*Mixtures of IFR Weibull Distributions*

Eshetu T. Wondmagegnehu  
Western Michigan University

**10:15–10:45**

*Bathtub Shaped Failure Rate Function And Lower Bounds For Some Optimization Problems*

Jie Mi  
Florida International University

**10:45–11:15**

*On Shapes and Mixtures*

Thomas H. Savits  
University of Pittsburgh
### Session 41 (Invited)

**Session Title:** Survival Analysis and Demography  
**Time and Day:** 9:45–11:15, Saturday  
**Place:** Room 303, Russell House  
**Session Organizer:** Niels Keiding, University of Copenhagen, Denmark  
**Session Chair:** Niels Keiding, University of Copenhagen, Denmark

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
<th>Institution(s)</th>
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<tbody>
<tr>
<td>9:45–10:15</td>
<td>The Accelerated Gap Times Model</td>
<td>Robert L. Strawderman</td>
<td>Cornell University</td>
</tr>
<tr>
<td>10:45–11:15</td>
<td>Age-period-cohort models in demography</td>
<td>Niels Keiding</td>
<td>University of Copenhagen, Denmark</td>
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### Session 42 (Invited)

**Session Title:** Recurrent Events and Survival Analysis  
**Time and Day:** 9:45–11:15, Saturday  
**Place:** Room 305, Russell House  
**Session Organizer:** Mei-Cheng Wang, Johns Hopkins University  
**Session Chair:** Mei-Cheng Wang, Johns Hopkins University

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Institution(s)</th>
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</thead>
<tbody>
<tr>
<td>9:45–10:15</td>
<td>Frequency of recurrent events at failure time: Modeling and inference</td>
<td>Yijian Huang</td>
<td>Fred Hutchinson Cancer Research Center</td>
</tr>
<tr>
<td>10:15–10:45</td>
<td>Proportional hazards regression model with unknown link function</td>
<td>Jane-Ling Wang</td>
<td>University of California, Davis</td>
</tr>
<tr>
<td>10:45–11:15</td>
<td>Inference for a General Class of Models for Recurrent Events</td>
<td>Edsel A. Peña*, Elizabeth H. Slate</td>
<td>University of South Carolina</td>
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### 11:15–11:30
Coffee Break

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<td>Session Title</td>
<td>Aspects of Mixtures in Failure-Time Modelling</td>
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<tr>
<td>Time and Day</td>
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<td>Session Organizer</td>
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<tr>
<td>Session Chair</td>
<td>James Lynch, University of South Carolina</td>
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#### 11:30–12:15
On the Failure Rates of Mixtures

**Henry W. Block**  
University of Pittsburgh

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<th>Session Number</th>
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<td>Session Title</td>
<td>Announcements and Closing of Conference</td>
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<tr>
<td>Time and Day</td>
<td>12:15–12:30, Saturday</td>
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<td>Place</td>
<td>Russell House Ballroom</td>
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<td>Session Organizer</td>
<td>Organizers</td>
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<td>Session Chair</td>
<td>Edsel A. Peña, University of South Carolina</td>
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**Announcements**  
[MMR2004 (Alyson Wilson, LANL); Others (Chin-Diew Lai)]

**Closing of Conference**
Conference Program

Poster Session I Presenters
May 22, 2003 (Thursday)
Russell House Room 302
Period: 12:00–6:00
(Set-Up Time: Thursday Morning)

Poster Board #1
*Simultaneous Group Sequential Analysis of Rank-Based and Weighted Kaplan-Meier Tests for Paired Censored Survival Data*
Adin-Cristian Andrei*, Susan Murray
University of Michigan, Ann Arbor

Poster Board #2
*Nonparametric Accelerated Degradation Models in Life-Testing*
Mohammed Al-Haj Ebrahem*, James Higgins
Kansas State University

Poster Board #3
*Quality of Life in Epilepsy Patients after Resective Surgery by Seizure Outcome*
Dan Frobish
Northern Illinois University

Poster Board #4
*The generalized hazardgram: An alternative nonparametric estimator for the hazard function*
Juan R. González*, Pedro Delicado
Universitat Politecnica de Catalunya, Spain

Poster Board #5
*Inference from Accelerated Degradation and Failure Data Based on Gaussian Process Models*
W. J. Padgett, Meredith A. Tomlinson*
University of South Carolina

Poster Board #6
*A General Counting Process Model for Recurrent Event Data*
Russell S. Stocker IV*, Edsel A. Peña
University of South Carolina
Poster Session II Presenters
May 23, 2003 (Friday)
Russell House Room 302
Period: 12:00–6:00
(Set-Up Time: Friday Morning)

Poster Board #1
Comparison of Failure Probabilities in the Presence of Competing Risks
Ruta Bajorunaite*, John P. Klein
Medical College of Wisconsin

Poster Board #2
Bivariate Mean Residual Life Function
Javier Rojo, Musie Ghebremichael*
Rice University

Poster Board #3
Tensile reliability of an inhomogeneous bundle of fibers, using the Maximum Entropy Principle
Jim Gleaton*, Jim Lynch
University of North Florida

Poster Board #4
Modeling the agreement of discrete bivariate survival times using kappa index
Ying Guo*, Amita Manatunga
Emory University

Poster Board #5
Examining the Reliability of the DAC Statistic in Detecting Spatial Clusters and its Relationship with the Survivorship Function
J. Wanzer Drane, Alexandru I. Petrisor*
University of South Carolina
About Poster Presentations/Displays

The dimension of the poster boards is 3 feet by 4 feet. It will be able to accommodate a poster of size 36 inches by 48 inches, or 12 pages/slides each of size 8.5 inches by 11 inches. We will provide the connectors to the poster boards (e.g., thumb tacks, etc.). Set-up times of the posters will be during the morning, preferably during the coffee breaks, and in the afternoon, participants will be able to view the posters. Questions and Answer sessions for these posters will be during lunch breaks, coffee breaks, and after the end of the afternoon sessions. Poster displays will be in Room 302.

Book Displays and Other Information

There will be some book displays and some miscellaneous information in Room 302 where the poster displays will be held.
Possible After-Conference Activities
Saturday Afternoon
(On Your Own or Organized During Conference)

- Trip to the Congaree Swamp.
- Golfing Activities.
- Tour of the University of South Carolina.
- Tour of the City of Columbia.
- The Spoleto Arts Festival in Charleston, South Carolina also begins the weekend of the ICRSA. See the website http://www.spoletousa.org/.
- Research Activities.
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Instructions to Access Electronic Mail

To access your electronic mail you may use the computers in the 2nd floor of the Russell House. These computers allow you to access the Internet through Internet Explorer, but will not allow you to telnet or to use secure shell client to your computer. If you cannot use Internet Explorer to access your mail, then you may use the computers at LeConte College Building. Follow the instructions below.

A publicly accessible computer lab is located in Room 124 in LeConte College Building [corner of Pickens St. and Greene St.], home of the Statistics Department and the Mathematics Department. Login information (username, password and domain) are posted next to the computers in that room. If you need to secure shell back to your home machines, ssh client is available on the PCs in this room.
Maps and Directions

Maps and directions will be provided by the USC Continuing Education. Please refer to materials included in your conference bag.

Shuttle and Taxicab Phone Numbers

- AAA Airport Shuttle Service .......................................................... 796-3626
- AAA Taxi Service ................................................................. 791-7282
- Ard’s Airport Shuttle ................................................................. 791-5767; 240-9681
- Capitol City Cab ................................................................. 233-8294
- Checker Yellow Cab Co Inc .......................................................... 799-3311
- Classic Taxi Cab Company .......................................................... 348-0662
- Earth Shuttle Service ............................................................... 714-0080
- Gamecock Cab Co ................................................................. 796-7700

Restaurants and Other Eating Places

Detailed information will be provided by Continuing Education. Please refer to materials included in your conference bag.