"I use SYSTAT every day for my own research and I am upgrading to Version 11."
-Leland Wilkinson, Ph.D. Author of SYSTAT version 1

"Students find it much easier to use and more intuitive than competing products."
-Grant Blank
Professor of Sociology
American University

For Twenty Years, The Fastest Track To Reliable Statistics.

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Achieving New Levels of Analytical Power and Speedy Results

With SYSTAT 11, you'll spend more time on the results of your research, and less time getting to them. Originally developed by a renowned researcher, statistician and expert on data visualization, SYSTAT excels at meeting the challenges of experimental data. Twenty years of delivering highly reliable results have made us the most trusted statistical software package for scientists, researchers and statisticians.

SYSTAT 11 offers:
- An immense library of powerful statistical procedures including new Monte Carlo methods and Bayesian regression.
- Streamlined, customizable user interface that lets you quickly access the right functions you need.
- Superb data visualization and graphing capabilities.
- Easy-to-learn command language for automating complex tasks.
- Set of seven printed user manuals that go beyond the software to serve as statistical reference books.
- Data import from other applications such as SAS®, SPSS®, Statistica®, JMP® and Minitab®.
- Processes import from 90% faster than previous version.

Visit us at Booth #214

Ask for your FREE GIFT*

* limited quantities
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August 8 – 12, 2004

A PERSONAL MESSAGE FROM THE PREMIER

On behalf of the Government of Ontario, I am delighted to extend warm greetings to everyone attending the 2004 Joint Statistical Meetings (JSM) of the American Statistical Association (ASA).

The ASA has a proud history. For well over a century, the ASA has remained faithful to its mission of promoting excellence in statistical practice, application and research. I commend everyone association with this worthwhile organization for your hard work and your commitment to enhancing your profession.

I am confident that the theme of this year’s JSM, “Statistics as a Unified Discipline,” will provide a forum for fresh, innovative ideas and engage participants in meaningful and insightful dialogue. As you gather with colleagues from across North America, it is an ideal opportunity to share knowledge and professional expertise.

To those of you who are first-time visitors to Toronto — I am pleased to welcome you to Canada’s largest, most diverse city. I hope you find the time to enjoy the stellar attractions and unique events offered in Toronto while you are here.

It took a great deal of effort to organize an event of this calibre. I extend my appreciation to all those who devoted so much of their time and energy to making the 2004 JSM memorable for so many people.

Please accept my sincere best wishes for a successful and productive meeting.

Dalton McGuinty
Premier
A Message from the Mayor

It is my pleasure to extend greetings and a warm welcome to all delegates attending the American Statistical Association Annual Meeting.

The meeting promises to be informative and educational and with insightful sessions and networking activities, it provides an opportunity for the exchange of knowledge and ideas, discussions on issues of mutual interest or concern, and the reconnection with friends and colleagues.

Whether you are a frequent or first time visitor to Toronto, you have an opportunity to enjoy our unmatched hospitality. I invite you to take time from your busy schedule to explore colourful neighbourhoods that reflect our cultural diversity, enjoy international cuisine, world-class entertainment, our vibrant theatre district, and discover some of the attractions our unique and exciting city has to offer.

On behalf of Toronto City Council, I congratulate the organizers of this event, and offer my best wishes to everyone for a most enjoyable and successful annual meeting.

Yours truly,

[Signature]

Mayor David Miller
Meeting Rooms
The Program has labeled the meeting rooms with “letters” preceding the name of the room, designating in which facility the room is located:

Metro Toronto Convention Centre = “TCC”
Fairmont Royal York Hotel = “FRY”
InterContinental Hotel = “ICH”
METRO TORONTO CONVENTION CENTRE (TCC) — 700 LEVEL

3-D OVERVIEW OF METRO TORONTO CONVENTION CENTRE

700 Level – Technical Sessions
Meeting Rooms 701-718

CEILING SPACE
EXHIBIT HALL "G"

CEILING SPACE
EXHIBIT HALL "F"
800 Level (Exhibit Hall, Career Placement, Technical Sessions)
Exhibit Hall E
Exhibit Hall F
Exhibit Hall G
Meeting Rooms 801-803
**Member Social**

*All IMS members are welcome.*

This is an opportunity to see old friends, network with colleagues and relax in an intimate setting. Appetizers and drinks will be served.

If you wish to join the IMS, but haven’t, please come by the reception and we will have applications available, or you can join online at www.imstat.org

---

**Welcome Reception**

**New Members, New Graduates and Students**

All members who have joined the IMS during the past two years, all IMS New Graduate members and all IMS student members are encouraged to attend. Appetizers and an open bar will be available.

If you wish to join the IMS, but haven’t, please come by the reception and we will have applications available, or you can join on-line at www.imstat.org
you are invited to the JSM FIRST-TIME ATTENDEE program and reception

Sunday, August 8
5:30 - 7:30 pm
Niagara/Ontario Room, InterContinental Toronto Centre

Panel Topics:
How to navigate in the academic world, presented by Linda Young (University of Florida)
Insights of a statistician in a governmental agency, presented by Elizabeth Margosches (USEPA)
Becoming a statistician in the industry, presented by Stacy Lindborg (Eli Lilly and Company)

OPEN TO ALL
Dinner groups will form after the reception.

This reception is cosponsored by ASA, ENAR, IMS, SSC, WINAR, the Caucus for Women in Statistics, the American Statistical Association Committee on Women in Statistics, the American Statistical Association Committee on Career Development and the International Chinese Statistical Association.
The International Biometric Society, founded in 1947, is an international organization for the advancement of the subject-matter sciences through the development of quantitative theories and the development, application, and dissemination of effective mathematical and statistical techniques.

Purpose. To this end, it welcomes to membership biologists, statisticians, and others interested in applying statistical techniques to research data. The International Biometric Society and its journal, *Biometrics*, serve as an invaluable means of communication between the subject matter specialists and the statisticians.

Journal. *Biometrics* is published quarterly. Its general focus is to promote and extend the use of mathematical and statistical methods in subject matter disciplines by describing and exemplifying developments in these methods and their applications in pure and applied sciences, ranging from agriculture/fisheries to environmental sciences to health sciences. For over 50 years, the journal has been at the forefront of statistics and mathematics in the biological sciences and was the second most highly-cited journal in the mathematical sciences during the decade 1991-2001, according to *Science Watch*.

*JABES. The Journal of Agricultural, Biological and Environmental Statistics.* Published quarterly and produced jointly by the International Biometrics Society and the American Statistical Association. The purpose of *JABES* is to contribute to the development and use of statistical methods in the agricultural sciences, the biological sciences including biotechnology, and the environmental sciences including sciences dealing with natural resources.

Meetings. Encouragement is given the subject matter experimenter by holding symposia dealing with applied statistics as a part of annual meetings of the biological, chemical, engineering, and physical science societies. Such symposia afford an opportunity for subject matter specialists and statisticians to discuss problems of mutual interest. At Regional meetings of the Society, a member is afforded an opportunity to present technical papers. This permits the exchange of ideas and information through formal presentation and informal contacts with fellow statisticians and experimentalists.

*Biometric Bulletin.* The International Biometric Society also publishes an informal newsletter containing news about membership activities, letters to the editor, and membership and editorial commentaries. It is a means for expressing ideas on a wide range of statistical and biometrical matters and is also published quarterly.

Membership. The annual membership dues include a subscription to *Biometrics* and the *Biometric Bulletin*. Annual dues are determined separately by each Region and Group and paid to the Regional Treasurer or National Secretary. The membership includes dues paid by each Region and Group to the Central Business Office covering the cost of *Biometrics* and the *Biometric Bulletin*. Information about the Society and the Regional and Group activities can be obtained from the appropriate Regional or National Secretary or from the Business Office. Completed applications should be sent to the appropriate Regional or National Secretary. See the IBS web site [http://www.tibs.org/](http://www.tibs.org/) for addresses.

ENAR Spring Meetings are typically held in March and include Short Courses, Tutorials, Roundtable Luncheons, Student Award Competition, Poster Sessions, a Diversity Workshop, and a Junior Researchers Workshop. The 2005 Spring Meeting will be held in Austin, Texas, March 20-23 at the Hilton Austin Hotel.

WNAR Meetings are typically held the last week of June and provide an excellent venue for new researchers and students to present their work and to make professional contacts. Special events at WNAR meetings include a New Researcher's Luncheon and a Student Paper Competition. The 2005 meeting will be held in Fairbanks, Alaska. WNAR is offering free student memberships on a trial basis until the end of 2005.
MEETING ROOM LOCATIONS

INTERCONTINENTAL TORONTO CENTRE (ICH) — MAIN LOBBY

Caledon
Grenadier
Haliburton

Halton
High Park
Humber

Kingsway
Oakville
Wellington

Wentworth

SIMCOE STREET

FRONT STREET WEST

HOTEL ENTRANCE

TO CONVENTION CENTRE

RECEPTION

EXECUTIVE OFFICE

RETAIL

KINGSWAY

MUSKOKA

STRATFORD

BUSINESS CENTRE

HALTON

HALIBURTON

HUMBER

GRENADIER

HALTON

WELLINGTON

HUMBER

STORAGE

CADEON

OAKVILLE

SERVICE
Statistical Society of Canada
Société statistique du Canada

Statistical Society of Canada
– a long standing participant
in the *JSM*.

Join us at the
SSC Reception –
check the program
for details.

www.ssc.ca

1485 Laperriere Avenue, Ottawa, Ontario  K1Z 7S8
Tel.: (613) 725-2253  •  Fax : (613) 729-6206  •  E-mail: info@ssc.ca
MEETING ROOM LOCATIONS

INTERCONTINENTAL TORONTO CENTRE (ICH)—LOWER LEVEL

Ballroom A  Ballroom B  Niagara  Ontario  Simcoe
MARKETPLACE

American Statistical Association

SATURDAY, August 7
12 noon to 5 p.m.

SUNDAY, August 8—WEDNESDAY, August 11
9 a.m. to 5 p.m.

THURSDAY, August 12
8 a.m. to 10:30 a.m.

CUPS • HATS • SHIRTS

CHILDREN’S SHIRTS • JSM SHIRTS • PENS • and more

LOCATED IN THE MAIN REGISTRATION AREA!
Housing Map and Hotel Listings

1 Fairmont Royal York
100 Front Street West
Continuing Education, COC/COS activities, and committee and social activities

2 InterContinental Toronto Centre
225 Front Street West
Speaker roundtable luncheons, and committee and social activities

3 Westin Harbour Castle
One Harbour Square
No scheduled activities

4 Sheraton Centre Toronto
123 Queen Street West
No scheduled activities

5 Hilton Toronto
145 Richmond Street West
No scheduled activities

6 Strathcona Hotel
60 York Street
No scheduled activities

7 Pitman Hall Residence at Ryerson University
160 Mutual Street
No scheduled activities
JSM Registration Area Floor Plan and Society Booths

1. ASA Continuing Education
2. ASA Council of Sections
3. ASA Council of Chapters
4. ASA Career Development
5. Statistical Society of Canada
6. International Statistical Institute
8. International Indian Statistical Association
9. Gay and Lesbian Statisticians Caucus
10. The Caucus for Women in Statistics
11. Federal Committee on Statistical Methodology
Emergency Telephone Messages
The general conference telephone number is (416) 585-3819. This will connect you to the JSM Special Assistance Desk and should only be used for emergency purposes. Emergency messages will be posted in the electronic JSM Message Center located in the Registration Area at the Metro Toronto Convention Centre South. All other calls or messages should be left in the attendee’s guestroom on his/her voicemail.

Convention Hotels
The main phone numbers for the convention hotels are:
Fairmont Royal York
(416) 368-2511
InterContinental Toronto Centre
(416) 597-1400
Westin Harbour Castle
(416) 869-1600
Sheraton Centre Toronto Hotel
(416) 361-1000
Hilton
(416) 869-3456
Strathcona
(416) 363-3321
Ryerson University
(416) 979-5296

Assistance for the Disabled
If you have a disability that may impede your participation, please contact a staff member at the Special Assistance Desk on the 600 Level of the Metro Toronto Convention Centre South.

Child Care
Improv Care will provide childcare at JSM. Caregivers will come directly to your hotel room; the rate is $25 CAD per hour (a little over $18 USD) and there is a three-hour minimum. Improv Care services promise your child an enriched and interactive care delivered in a fun and respectful way. It is also the premier child care company in North America and is a member in good standing with the Toronto Convention and Visitors Bureau. Visit www.improvcare.ca or contact them directly by phone, (416) 243-3285, or email, info@improvcare.ca, for more information. The Caucus for Women in Statistics will provide a subsidy toward three hours of babysitting per family for up to 14 families. If you are interested, please contact Mariza de Andrade, Caucus for Women in Statistics President, at mandrade@mayo.edu.

Electronic Devices
Please turn off all cell phones, pagers, and other electronic devices before attending any JSM session. These devices cause interference with the audiovisual equipment and are a distraction to the session speaker and attendees.

No Smoking Policy
For the comfort and health of all attendees, smoking is not permitted at any JSM function. This includes plenary sessions, concurrent session, workshops, luncheons, and receptions (unless the event is outside).

Photographs and Video-taping
Taking photographs or using video equipment in any session or at any JSM event is prohibited, and violators will be asked to leave. This is a disruption for the speakers, a distraction for the audience, and an infringement on intellectual property rights. Only the official JSM photographer will be authorized to take photographs.

Recycling at JSM
Your participation can make the difference. You can help by separating recyclables in your room and placing all recyclable items in the bins available around the Fairmont Royal York and InterContinental Toronto Centre areas and at the Metro Toronto Convention Centre. Also, simply choose not to print at the Cyber Cafe and Message Center to help us continue our efforts to conserve. If you have additional questions, please stop by the Special Assistance Desk at the Metro Toronto Convention Centre Registration Area.
MEETINGS AND SESSIONS

Invited Poster Session
TCC-Exhibit Hall E
Invited posters will be showcased Sunday, August 8, 6:00 p.m.–7:50 p.m. The session is designed for the display of state-of-the-art statistical technology. Details are available in the general program schedule. Authors are assigned a poster board corresponding to the number in the program and will remain for the allotted time.

Poster Sessions
TCC-Exhibit Hall E
Regular and topic-contributed poster sessions are held Monday, Tuesday, and Wednesday from 9:00 a.m.–10:50 a.m. and from 12:00 noon–1:50 p.m. These sessions are designed for the display of graphical materials, charts, printouts, etc., rather than the text of the paper. Details are available in the general program schedule. Authors are assigned a poster display area corresponding to the number in the program and will remain for the allotted time.

Introductory Overview Lectures
The Introductory Overview Lectures are a series of talks on a variety of topics. No pre-registration is necessary and they are open to all JSM registrants. If you have suggestions for next year, please contact 2005 JSM Program Chair Daniel Heitjan (dheitjan@cceb.upenn.edu).

Sunday, August 8, 4:00 p.m.–5:50 p.m. ICH-Ballroom B
Session 30
Proteomics: A New Field for Statistical Involvement

Monday, August 9, 8:30 a.m.–10:20 a.m. TCC-718A
Session 60
Bayesian Methods in Business

Monday, August 9, 10:30 a.m.–12:20 p.m. TCC-701A
Session 91
Sequential and Adaptive Methods in Modern Statistics—Real-life Applications

Tuesday, August 10, 8:30 a.m.–10:20 a.m. TCC-718B
Session 168
Bayesian Statistical Computation and Its Applications

Late-Breaking Sessions
The JSM partner societies recently approved two additional session slots for special invited late-breaking sessions to cover important topics that might emerge close in time to each JSM. This is an exciting addition to the JSM program, most of which is organized well in advance.

Tuesday, August 10, 2:00 p.m.–3:50 p.m. TCC-718A
Session 250
Statistical Issues in Forensic Bullet-Lead Evidence

Wednesday, August 11, 10:30 a.m.–12:20 p.m. TCC-718A
Session 315
The Latest Report to NSF on Funding Statistical Research and Education: Challenges and Opportunities

Business and Committee Meetings
All meetings are open unless shown as “closed” or “by invitation only.” Section business meetings are open to all and members are urged to attend. The business meetings of ASA Sections provide the opportunity to give suggestions on Section business.

Opening Mixer
TCC – Exhibit Hall G
Don’t miss your chance to get JSM 2004 off to a great start and enjoy refreshments with your colleagues. Join us Sunday, August 8, 8:00 p.m.–10:30 p.m. We will see you there!

Student Mixer
ICH-Ballroom A
Student registrants can enjoy refreshments, meet their peers, and make plans for local events and outings at this Mixer, Monday, August 9, 6:00 p.m.–7:00 p.m. The 2004 Student Mixer is sponsored by the ASA Committee on Membership Retention and Recruitment. A number of door prizes will be given away. Students, you don’t want to miss it!

Society Business Meetings
You are encouraged to attend your society business meetings at JSM. This is your chance to give your input to the officers and other members of your society.

American Statistical Association
Sunday, August 8, 6:00 p.m.–7:30 p.m. TCC-801 A

International Biometric Society, ENAR Business Meeting
Tuesday, August 10, 5:30 p.m.–6:30 p.m. ICH-Niagara

IMS Welcome Reception for New Members, Students, and New Graduates
Tuesday, August 10, 5:15 p.m.–6:45 p.m. FRY-Confederation 3

Statistical Society of Canada
Monday, August 9, 5:00 p.m.–7:00 p.m. ICH-Grenadier

ICH-InterContinental Hotel FRY-Fairmont Royal York TCC-Toronto Convention Centre
Recycling Badge Holders
JSM badges and badge holders will be collected for recycling. Please place those you are not reusing in a designated bin at the Registration Area.

2004 JSM Proceedings
Order your JSM 2004 Proceedings in advance! Order forms are available at the ASA Membership booths in the JSM Registration Area and in EXPO 2004. CDs will mail in January 2005.

Would you like to publish your presentation in the 2004 Proceedings? Eligibility guidelines and author instructions for JSM 2004 presenters are available at www.amstat.org/meetings/jsm/2004; click the Program tab and select “Proceedings.” Submissions must be in electronic format; the submission site will open August 1, 2004.

JSM 2005
The 2005 Joint Statistical Meetings will be held in Minneapolis, Minnesota, August 7-11, 2005, at the Minneapolis Convention Center. Preliminary information on JSM 2005 can be found at the Minneapolis Booth #419 in EXPO 2004. The complete listing of the 2005 Program Committee and instructions on the submission of contributed papers appeared in the June issue of Amstat News; this information is still available at www.amstat.org/meetings/jsm/2005.

If You Are Not A Member...
Information about the American Statistical Association, the Eastern and Western North American Regions of the International Biometric Society, the Institute of Mathematical Statistics, and the Statistical Society of Canada will be available at the society booths located in the JSM Registration Area or in the Exhibit Hall at the Metro Toronto Convention Centre. Publications and other materials will also be on display. If you are not a member, pick up an application form today. Each society provides a variety of publications and activities to anyone interested in applied or theoretical aspects of statistics in many different disciplines. Student memberships are offered at substantially reduced rates.

If you are not already a member of the ASA, join now and receive a $15 discount on a full-year regular ASA membership. This offer is not applicable to student, senior, or other discounted memberships. Return your completed application and payment of $70 to one of the ASA Booths by Thursday, August 12, at 10:00 a.m., to receive your discount. Make an investment in your career and begin enjoying all membership benefits right away by joining today!

ASA Membership Booth Hours TCC-600 Level
Saturday, August 7  7:00 a.m.–6:00 p.m.
Sunday, August 8   7:00 a.m.–8:30 p.m.
Monday, August 9   7:30 a.m.–6:00 p.m.
Tuesday, August 10 7:30 a.m.–4:30 p.m.
Wednesday, August 11 7:30 a.m.–4:30 p.m.
Thursday, August 12 7:30 a.m.–10:30 a.m.

ASA Exhibit Booth Hours TCC-Hall E, Booth 225
Sunday, August 8   1:00 p.m.–6:00 p.m.
Monday, August 9   9:00 a.m.–6:00 p.m.
Tuesday, August 10 9:00 a.m.–6:00 p.m.
Wednesday, August 11 9:00 a.m.–2:00 p.m.
**Registration**
All persons attending JSM, including participants in the program, are required to register. Materials for all those who registered in advance are available at the JSM Registration Desk, located on the 600 Level at the Metro Toronto Convention Centre South. You may also add Continuing Education Courses, Career Placement Service registration, tours, guests, or luncheons to your JSM registration at the JSM Registration Desk. Hours of operation:

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<th>Date</th>
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<td>Saturday, August 7</td>
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<td>Wednesday, August 11</td>
<td>7:30 a.m.–4:30 p.m.</td>
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<tr>
<td>Thursday, August 12</td>
<td>7:30 a.m.–10:30 a.m.</td>
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JSM registration includes the Program and Abstract Books, access to the Exhibit Hall, and admission to the Sunday night Opening Mixer (dry snacks, beer, and soft drinks), the Monday evening Student Mixer (students only), and the Informal Dance Party on Tuesday evening (dancing, dry snacks, and cash bar). If you did not purchase luncheon tickets with your advance registration, ask at the JSM Registration Desk for availability. Limited seating is still available for some luncheons. Tickets will be sold until 2:00 p.m. on the day prior to the scheduled luncheon.

**ASA Continuing Education Courses**
Courses will be held in various rooms at the Fairmont Royal York Hotel. For room assignments, please review the program or visit the Meeting Services Desk on the Main Mezzanine Level at the Fairmont Royal York Hotel, or the Special Assistance Desk on the 600 level of the Metro Toronto Convention Centre South.

**Onsite CE Registration:** Go to the JSM Registration Desk, located on the 600 Level of the Metro Toronto Convention Centre South. Availability may be limited, and textbooks will not be available.

**NEW IN 2004!** Pre-registered Pick-up: As a convenience to those who pre-registered for a Continuing Education Course or Computer Technology Workshop by July 22, 2004, you may pick up your JSM and course registration materials at either the JSM Registration Desk at the Metro Toronto Convention Centre OR at the Fairmont Royal York Hotel on the Main Mezzanine Level at the Meeting Services Desk. The pre-registered pick-up area is only for those who registered for their course(s) by July 22 and have no balance due or changes to make to their registration. All changes must be made at the JSM Registration area on the 600 Level of the Metro Toronto Convention Centre South. Pre-registered pick-up hours are:

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<td>Saturday, August 7</td>
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<td>Sunday, August 8</td>
<td>7:00 a.m.–4:00 p.m.</td>
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<tr>
<td>Monday, August 9</td>
<td>7:00 a.m.–4:00 p.m.</td>
</tr>
<tr>
<td>Tuesday, August 10</td>
<td>7:00 a.m.–12:00 noon</td>
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**Speaker Work Rooms**
**TCC-702, FRY-Prince Edward Island**
There will be two Speaker Work Rooms this year, one at the Metro Toronto Convention Centre South on the 700 Level in Room 702, and one at the Fairmont Royal York Hotel located on Main Mezzanine Level in the Prince Edward Island room. Hours of operation (both locations):

<table>
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<th>Date</th>
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<td>Saturday, August 7</td>
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<td>Monday, August 9</td>
<td>7:00 a.m.–6:00 p.m.</td>
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<td>Tuesday, August 10</td>
<td>7:00 a.m.–6:00 p.m.</td>
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<tr>
<td>Wednesday, August 11</td>
<td>7:00 a.m.–6:00 p.m.</td>
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<tr>
<td>Thursday, August 12</td>
<td>7:00 a.m.–10:30 a.m.</td>
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</table>

A Speaker Work Room is available for all presenters. There will be two stations available: one with an overhead projector and screen and one with a data projector and screen. To accommodate more than 2,300 presenters, each speaker will be limited to 10 minutes to test the equipment. Please rehearse your verbal presentation in the privacy of your hotel room to ensure that everyone has a chance to test the equipment.

Presenters using laptops for presentations are encouraged to report to the Speaker Work Room for training on how to properly connect to the data projector. Audiovisual technicians will be available to assist with questions or problems.

**Career Placement Service**
**TCC-Hall F**
The JSM 2004 Career Placement Service will be located in the Metro Toronto Convention Centre, Hall F. Hours of operation:

<table>
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<th>Date</th>
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<tbody>
<tr>
<td>Saturday, August 7</td>
<td>Job Posting and Resume Submission Only</td>
</tr>
<tr>
<td>Sunday, August 8</td>
<td>Job Posting and Resume Submission Only</td>
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<tr>
<td>Monday, August 9</td>
<td>Full Career Placement Service Open</td>
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<td>Tuesday, August 10</td>
<td>Full Career Placement Service Open</td>
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<tr>
<td>Wednesday, August 11</td>
<td>Full Career Placement Service Open</td>
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<tr>
<td>Thursday, August 12</td>
<td>Full Career Placement Service Open</td>
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</tbody>
</table>

(Browsers allowed for a $10 fee)
EXPO 2004  
TCC-Hall E  
Visit publishers, software companies, and recruiters. See state-of-the-art products designed for the statistical community.  
Hours of operation:  

Exhibitors Move in and Out Information  
Saturday, August 7 (Exhibitor move-in only) 8:00 a.m.–5:00 p.m.  
Sunday, August 8 (Exhibitor move-in only) 8:00 a.m.–11:00 a.m.  
Wednesday, August 11 (Exhibitor move-out only) 2:00 p.m.–8:00 p.m.  

Show Hours of Operation  
Sunday, August 8 1:00 p.m.–6:00 p.m.  
Monday, August 9 9:00 a.m.–6:00 p.m.  
Tuesday, August 10 9:00 a.m.–6:00 p.m.  
Wednesday, August 11 9:00 a.m.–2:00 p.m.  

Cyber Café and Message Center  
TCC-600 Level  
There will be some terminals designated in the Message Center for internet access. The Cyber Café and electronic Message Center are for registered JSM attendees and are located in the JSM Registration Area on the 600 Level at the Metro Toronto Convention Centre South. There will NOT be 24-hour access to the Cyber Café and Message Center. To reach a JSM attendee when the Message Center is closed, please call his or her hotel directly. Hours of operation:  

Saturday, August 7 7:00 a.m.–11:00 p.m.  
Sunday, August 8 7:00 a.m.–8:30 p.m.  
Monday, August 9 7:30 a.m.–6:00 p.m.  
Tuesday, August 10 7:30 a.m.–4:30 p.m.  
Wednesday, August 11 7:30 a.m.–4:30 p.m.  
Thursday, August 12 7:30 a.m.–10:30 a.m.  

ASA Marketplace  
TCC-600 Level  
The ASA Marketplace is your store for JSM and ASA souvenirs. Purchase your official JSM 2004 T-shirt, great new gifts, and clearance items. Look for new shirt designs! Hours of operation:  

Saturday, August 7 12:00 noon–5:00 p.m.  
Sunday, August 8 9:00 a.m.–5:00 p.m.  
Monday, August 9 9:00 a.m.–5:00 p.m.  
Tuesday, August 10 9:00 a.m.–5:00 p.m.  
Wednesday, August 11 9:00 a.m.–5:00 p.m.  
Thursday, August 12 8:00 a.m.–10:30 a.m.  

Special Assistance Desk  
TCC-600 Level  
Information on activities in Toronto, Ontario, Canada, local restaurants, attractions, a local map, and organized tours are available at the Special Assistance Desk on the 600 Level at the Metro Toronto Convention Centre South, in the JSM Registration Area.  

Saturday, August 7 7:00 a.m.–6:00 p.m.  
Sunday, August 8 7:00 a.m.–8:30 p.m.  
Monday, August 9 7:30 a.m.–6:00 p.m.  
Tuesday, August 10 7:30 a.m.–4:30 p.m.  
Wednesday, August 11 7:30 a.m.–4:30 p.m.  
Thursday, August 12 7:30 a.m.–10:30 a.m.  

Guest Services Desk  
TCC-Entrance of South Building  
The Metro Toronto Convention Centre will provide a guest services desk located in the main lobby area of the South Building entrance at the Centre. This desk will provide information on the Centre, the city, and Toronto. Attendants will also offer directions, provide maps, and suggest restaurants, local activities, and attractions. Hours of operation will be:  

Saturday, August 7 7:00 a.m.–6:00 p.m.  
Sunday, August 8 7:00 a.m.–8:30 p.m.  
Monday, August 9 7:30 a.m.–6:00 p.m.  
Tuesday, August 10 7:30 a.m.–4:30 p.m.  
Wednesday, August 11 7:30 a.m.–4:30 p.m.  
Thursday, August 12 7:30 a.m.–10:30 a.m.  

Press Desk  
TCC-600 Level  
Sunday, August 7 7:00 a.m.–6:00 p.m.  
Sunday, August 8 7:00 a.m.–8:30 p.m.  
Monday, August 9 7:30 a.m.–6:00 p.m.  
Tuesday, August 10 7:30 a.m.–4:30 p.m.  
Wednesday, August 11 7:30 a.m.–4:30 p.m.  
Thursday, August 12 7:30 a.m.–10:30 a.m.  

ASA Council of Sections/Council of Chapters Booth, Careers in Statistics Booth and ASA Education Booth  
TCC-600 Level  
Saturday, August 7 12:00 noon–5:00 p.m.  
Sunday, August 8 12:00 noon–5:00 p.m.  
Monday, August 9 9:00 a.m.–5:00 p.m.  
Tuesday, August 10 9:00 a.m.–5:00 p.m.  
Wednesday, August 11 9:00 a.m.–5:00 p.m.  
Thursday, August 12 8:00 a.m.–10:30 a.m.
President’s Invited Address

The Romance of Hidden Components – David Donoho, Stanford University
Monday, August 9, 2004
4:00 p.m.–5:50 p.m.

David L. Donoho, an Anne T. and Robert M. Bass Professor in the Humanities and Sciences at Stanford University, will present “The Romance of Hidden Components.” Donoho received his AB summa cum laude from Princeton, where his senior thesis adviser was John Tukey. He received his PhD from Harvard, where his thesis adviser was Peter Huber.

Deming Lecturer

Deming and Bell Labs – Colin L. Mallows, Avaya Labs
Tuesday, August 10, 2004
4:00 p.m.–5:50 p.m.

Mallows, a department head at Bell Labs for almost 20 years, received the AT&T Technology Medal, the company’s highest honor. Mallows has published more than 140 papers. His interests include the foundations of statistics, data analysis, statistical graphics, time series, robustness, software reliability, moment-problems and Chebychev inequalities, combinatorics, and coding theory.

ASA Presidential Address

Bayesians, Frequentists, and Scientists – Bradley Efron, Stanford University
Tuesday, August 10, 2004
8:00 p.m.–9:30 p.m.

Currently a professor of statistics and biostatistics at Stanford University, Efron works on a combination of theoretical and applied topics, including empirical Bayes, survival analysis, exponential families, bootstrap and jackknife methods, and confidence intervals. He has given the Rietz, Wald, and Fisher lectures and was awarded the Wilks Medal, Parzen Prize, Rao Prize, and the outstanding statistician award from the ASA Chicago Chapter.

COPSS Fisher Lecture

Wednesday, August 11, 2004
4:00 p.m.–5:50 p.m.

The Lectureship honors a leading statistician who has contributed to scientific investigation through the development and promotion of statistical methods. Rubin, a John L. Loeb Professor of Statistics at Harvard University, is recognized for his numerous and innovative contributions to modern missing data methods, the development of the EM algorithm and multiple imputation, and Bayesian statistics, as well as his very substantial overall impact on applied data analysis.

* NOTE: The time for this presentation was incorrectly listed in the JSM Registration Book. The lecture will begin promptly at 4:00 p.m.
JSM2004 PROGRAM COMMITTEE

Xiao-Li Meng
ASA Program Chair
Harvard University

Paul Rathouz
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University of Chicago

Bill Barlow
International Biometric Society (WNAR)
Cancer Research & Biostatistics

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Institute of Mathematical Statistics (Invited)
University of Toronto

Tim B. Swartz
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Simon Fraser University

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Statistical Society of Canada
University of British Columbia

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Food and Drug Administration

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Business & Economic Statistics Section
Texas Christian University

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Statistical Computing Section
Rutgers University

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Section on Statistical Consulting
Southern Methodist University

Dexter Whittinghill
Section on Statistical Education
Rowan University

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Centers for Disease Control and Prevention

Amita Manatunga
Section on Epidemiology
Emory University

Jana Asher
Section on Government Statistics
Carnegie Mellon University

Jeffrey L. Solka
Section on Statistical Graphics
Naval Surface Warfare Center

Alan M. Zaslavsky
Section on Health Policy Statistics
Harvard Medical School

Robert Bordley
Section on Statistics in Marketing
General Motors Corporation

Joseph L. Gastwirth
Section on Nonparametric Statistics
George Washington University

S. Stanley Young
Section on Physical & Engineering Sciences
CGStat

Timothy J. Robinson
Section on Quality & Productivity
University of Wyoming

Phyllis A. Gimotty
Section on Risk Analysis
University of Pennsylvania School of Medicine

Jonaki Bose
Social Statistics Section
Bureau of Transportation Statistics

David J. Groggel
Section on Statistics in Sports
Miami University

Partha Lahiri
Section on Survey Research Methods
University of Maryland

Brent Shelton
Section on Teaching of Statistics in the Health Sciences
University of Kentucky

Vanja Dukic
Invited and Contributed Posters
University of Chicago

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Meetings Planner
Kathleen Wert

American Statistical Association
1429 Duke Street
Alexandria, VA
22314-3415
Email: jsam@amstat.org
www.amstat.org

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University of Toronto

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Canada Research Chair in Statistical Methods for Health Care

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Email: ssc@thewillowgroup.com
Web site: www.ssc.ca
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January–December 2004

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Past President
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President-Elect
Peter Imrey

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Sharon-Lise Normand

Treasurer (2004-2005)
Joanna Shih

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Lance Waller

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2004–2006
Hongshik Ahn, Brent Coull, Debashis Ghosh, Amy Herring, Tom Loughin, Jared Lunceford, Jeffrey Morris, Kerrie Nelson, Frank Roesch, Helen Zhang

Programs
2004 Joint Statistical Meetings
Chair Paul Rathouz

2005 Joint Statistical Meetings
Chair Naisyin Wang

2004 Spring Meeting–Pittsburgh, Pennsylvania
Local Arrangements Chairs
Joyee Chang and Ada Youk

Program Chair Thomas R. Ten Have

2005 Spring Meeting–Austin, Texas
Program Chair A. John Bailer

Program Co-chair Maura Stokes

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Biometric Bulletin Editor
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ENAR Correspondent for the Biometric Bulletin
Rosalyn Stone

ENAR Executive Director
Kathy Hoskins

International Biometric Society Business Manager
Claire Shanley

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President-Elect Peter Imrey

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Nominating Timothy G. Gregoire
Sponsorship Frank Shen
Information Technology Oversight: Stewart Anderson

American Association for the Advancement of Science (Joint with WNAR) Terms through February 22, 2005
Section N, Medical Sciences
Karen Bandeen-Roche

Section G, Biological Sciences
Zhao-Bang Zeng

Section U, Statistics
Aparna Huzurbazar

Section O, Agriculture
Ahman Shafii

National Institute of Statistical Sciences Board of Trustees Member (ENAR President is also an ex-officio member)
Marie Davidian

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12100 Sunset Hills Road, Suite 130
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Fax: (703) 435-4390
Email: enar@enar.org
Web site: www.enar.org
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2004-2006
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Stephanie Monks, Lang Wu

2002-2004
Betty Nelson, Stuart Gansky

Business Office
Kris Parker
WNAR Membership Services
Cancer Research and Biostatistics
1730 Minor Avenue, Suite 1900
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Email: unar@crab.org
Web site: www.wnar.org

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Business Office

Elyse R. Gustafson, Executive Director
PO Box 22718
Beachwood, OH 44122
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Fax: (216) 921-6703
Email: ims@imstat.org
Web site: www.imstat.org
American Statistical Association

OPEN MEETING

Bradley Efron, ASA President
Sunday, August 8, 2004, 6 p.m.

Find out what your association is doing!

Come to the open meeting, meet your officers, hear about the following items, among others, and voice your opinions about the ASA:

- Areas of strategic focus
- New trends in statistics research
- Update on ASA finances
- ASA development activities
- Board of Directors task force objectives, including plans for member access to CIS, a possible new journal, and outreach activities

Please plan to attend and lend your voice to the discussion of important issues affecting the future of the ASA.
The 15th annual

GERTRUDE COX

SCHOLARSHIP RACE

5K Race and 2.5K Fun Run/Walk Tuesday, August 10

The Caucus for Women in Statistics, in conjunction with the ASA, presents the 15th annual Gertrude Cox Scholarship Race at the Joint Statistical Meetings in Toronto, Ontario, Canada. All proceeds will benefit the Gertrude M. Cox Scholarship in Statistics.

The Race: There will be two races running concurrently, a competitive 5K race and a 2.5K fun run/walk.

When: Tuesday, August 10, 6:30 a.m.

Where: To be determined.

How Much: The entry fee is $20.00.

Registration: You may register during JSM at the hospitality table of the Caucus for Women in Statistics on the 600 level of the Metro Toronto Convention Centre, in the registration area. All participants must sign a registration form and waiver. If you have questions, please contact Lori Thombs at thombsl@missouri.edu or (573) 882-3844.

REGISTRATION FORM (Each participant must complete and sign a form.)

Name: ____________________________________________

Address:_________________________________________________________________________City:___________________________________________

State/Province:_________________________________ Zip/Postal Code:___________________________Phone: _________________________________

Sex: M F    Age:__________

Event: 5K Race  2.5K fun walk

The fine print: I understand that running a road race is a potentially hazardous activity. I will not enter and run unless I am medically able and properly trained. I agree to abide by any decision of a race official relative to my ability to complete the run safely. I assume all risks associated with running in this event including, but not limited to: falls, contact with other participants, effects of weather, traffic, and course conditions. All such risks are known and appreciated by me. Having read this waiver, knowing these facts and in consideration of your accepting my entry, I, for myself and anyone entitled to act on my behalf, waive and release the race directors, the race committee, and all sponsors from all claims of liabilities of any kind arising out of my participation in this event, even though such liability may arise as a result of negligence or carelessness on the part of the persons named in this waiver.

Signature:_______________________________________________________________________________________Date:_________________________ __

Parent or guardian (if under 18):____________________________________________________________________________________________________

Make check payable to: The Gertrude Cox Scholarship Fund. Please return this form along with your check to Lori Thombs, Race Organizer, Department of Statistics, University of Missouri, Middlebush 146, Columbia, MO 65211 or fax (573) 884-5524
## CE COURSES

All CE Courses are located in the Fairmont Royal York Hotel (FRY).

<table>
<thead>
<tr>
<th>TIME</th>
<th>COURSE CODE</th>
<th>INSTRUCTOR</th>
<th>COURSE TITLE</th>
<th>ROOM</th>
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</thead>
<tbody>
<tr>
<td>Saturday, August 7, 2004</td>
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<tr>
<td>8:15 a.m.-4:15 p.m.</td>
<td>CE2004_01C</td>
<td>J.N.K. Rao/Sharon Lohr</td>
<td>Sample Survey Methods: Recent Developments and Applications</td>
<td>Quebec</td>
</tr>
<tr>
<td>8:00 a.m.-4:00 p.m.</td>
<td>CE2004_02C</td>
<td>Anders Skrondal/Sophia</td>
<td>Generalized Linear Latent and Mixed Models</td>
<td>Tudor 7</td>
</tr>
<tr>
<td>8:00 a.m.-4:00 p.m.</td>
<td>CE2004_03C</td>
<td>L. Jane Goldsmith</td>
<td>Introduction to Clinical Trials</td>
<td>Tudor 8</td>
</tr>
<tr>
<td>8:00 a.m.-4:00 p.m.</td>
<td>CE2004_04C</td>
<td>David Spiegelhalter</td>
<td>Practical Bayesian Methods for Evaluating Clinical Interventions</td>
<td>Confederation</td>
</tr>
<tr>
<td>8:15 a.m.-4:15 p.m.</td>
<td>CE2004_05C</td>
<td>David Banks</td>
<td>Modern Data Mining</td>
<td>Alberta</td>
</tr>
<tr>
<td>8:15 a.m.-4:15 p.m.</td>
<td>CE2004_06C</td>
<td>Roger Hoel/Bill Pan/Angie</td>
<td>Statistical Leadership: From Consultant to Effective Leader</td>
<td>British Columbia</td>
</tr>
<tr>
<td>Sunday, August 8, 2004</td>
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<tr>
<td>8:15 a.m.-4:15 p.m.</td>
<td>CE2004_07C</td>
<td>Frank E. Harrell, Jr.</td>
<td>Regression Modeling Strategies</td>
<td>Tudor 8</td>
</tr>
<tr>
<td>8:00 a.m.-4:00 p.m.</td>
<td>CE2004_08C</td>
<td>Peter Thall</td>
<td>Designing Clinical Trial</td>
<td>Confederation</td>
</tr>
<tr>
<td>8:15 a.m.-4:15 p.m.</td>
<td>CE2004_10C</td>
<td>Robert Templeman/Guilherme Rosa</td>
<td>Design and Analysis of Gene Expression Studies Using Microarrays</td>
<td>Alberta</td>
</tr>
<tr>
<td>8:15 a.m.-4:15 p.m.</td>
<td>CE2004_11C</td>
<td>Geert Verbeke/Geert Molenbergh</td>
<td>Longitudinal and Incomplete Data</td>
<td>Manitoba</td>
</tr>
<tr>
<td>8:15 a.m.-4:15 p.m.</td>
<td>CE2004_12C</td>
<td>Greg Piepel/John Cornell</td>
<td>Methods for Designing and Analyzing Mixture Experiments</td>
<td>British Columbia</td>
</tr>
<tr>
<td>1:00 p.m.-5:00 p.m.</td>
<td>CE2004_13C</td>
<td>Andrew Lawson</td>
<td>Disease Mapping and Risk Assessment for Public Health</td>
<td>Tudor 7</td>
</tr>
<tr>
<td>Monday, August 9, 2004</td>
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<tr>
<td>8:00 a.m.-noon</td>
<td>CE2004_14C</td>
<td>Gerald van Belle</td>
<td>Statistical Rules of Thumb</td>
<td>Alberta</td>
</tr>
<tr>
<td>8:00 a.m.-4:00 p.m.</td>
<td>CE2004_15C</td>
<td>Paul Bisser/Lars Lyberg</td>
<td>Introduction to Survey Quality</td>
<td>British Columbia</td>
</tr>
<tr>
<td>8:15 a.m.-4:15 p.m.</td>
<td>CE2004_16C</td>
<td>Xiaohua (Andrew) Zhou</td>
<td>Statistical Methods in Diagnostic Medicine</td>
<td>Confederation</td>
</tr>
<tr>
<td>8:15 a.m.-4:15 p.m.</td>
<td>CE2004_17C</td>
<td>Brian Marx/Paul Eilers</td>
<td>Splines, Knots and Penalties: the Practice of P-spline Smoothing</td>
<td>Tudor 7</td>
</tr>
<tr>
<td>8:15 a.m.-4:15 p.m.</td>
<td>CE2004_18C</td>
<td>Bruno Sansio</td>
<td>Bayesian Inference</td>
<td>Tudor 8</td>
</tr>
<tr>
<td>Tuesday, August 10, 2004</td>
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</tr>
<tr>
<td>8:00 a.m.-4:00 p.m.</td>
<td>CE2004_19C</td>
<td>Sean Chen</td>
<td>Modeling Financial Derivatives for the Management of Risk</td>
<td>Alberta</td>
</tr>
<tr>
<td>8:00 a.m.-4:00 p.m.</td>
<td>CE2004_20C</td>
<td>Jorge Morel/Nagarat Neerchal</td>
<td>Modelling and Analysis of Categorical Data with Overdispersion</td>
<td>Quebec</td>
</tr>
<tr>
<td>8:00 a.m.-4:00 p.m.</td>
<td>CE2004_21C</td>
<td>David Draper</td>
<td>Intermediate/Advanced Bayesian Hierarchical Modeling</td>
<td>Manitoba</td>
</tr>
<tr>
<td>8:00 a.m.-4:00 p.m.</td>
<td>CE2004_22C</td>
<td>Joseph Ibrahim/Minghui Chen</td>
<td>Missing Data Methods in Regression Models</td>
<td>British Columbia</td>
</tr>
<tr>
<td>8:15 a.m.-4:15 p.m.</td>
<td>CE2004_23C</td>
<td>Jun Liu/Xiaoie Shirley Liu</td>
<td>Statistical Methods in Bioinformatics</td>
<td>Territories</td>
</tr>
<tr>
<td>8:15 a.m.-4:15 p.m.</td>
<td>CE2004_24C</td>
<td>Tom Lang/Ralph O'Brien</td>
<td>Writing Effectively: Communicating with Nonstatisticians</td>
<td>Tudor 7</td>
</tr>
<tr>
<td>8:15 a.m.-4:15 p.m.</td>
<td>CE2004_25C</td>
<td>Richard Hebergen/Burt Holland</td>
<td>Statistical Analysis and Data Display</td>
<td>Tudor 8</td>
</tr>
<tr>
<td>8:15 a.m.-4:15 p.m.</td>
<td>CE2004_26C</td>
<td>Philip Hougaard</td>
<td>Analysis of Multivariate Survival Data: An Introduction to Frailty Models</td>
<td>Confederation</td>
</tr>
<tr>
<td>1:00 p.m.-5:00 p.m.</td>
<td>CE2004_27C</td>
<td>Ingram Olkin</td>
<td>Meta-analysis: Statistical Methods for Combining the Results of Independent Studies</td>
<td>Alberta</td>
</tr>
<tr>
<td>Wednesday, August 11, 2004</td>
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<td>8:00 a.m.-10:00 a.m.</td>
<td>CE2004_28T</td>
<td>John Castelloe</td>
<td>Power and Sample Size Analysis Using New SAS/STAT Software</td>
<td>Alberta</td>
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<td>8:00 a.m.-10:00 a.m.</td>
<td>CE2004_29T</td>
<td>Chris Mutha/Evessa</td>
<td>New Features for Clustered and Survey Data Analysis in SUDAAN® V9.0</td>
<td>Quebec</td>
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<td>8:00 a.m.-10:00 a.m.</td>
<td>CE2004_30T</td>
<td>Dan Steinberg</td>
<td>Introduction to CART: Data Mining with Decision Trees</td>
<td>Manitoba</td>
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<td>10:00 a.m.-12 noon</td>
<td>CE2004_31T</td>
<td>Russ Wolflinger/Wendy Czika</td>
<td>Analysis of Genetic, Microarray, and Proteomic Data within a Comprehensive SAS Solution Software Environment</td>
<td>Alberta</td>
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<td>10:00 a.m.-12 noon.</td>
<td>CE2004_32T</td>
<td>José C. Pinheiro/Edward Chao</td>
<td>GUMMA and GEE Methods for Correlated Data in Splus</td>
<td>Quebec</td>
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<td>10:00 a.m.-12 noon.</td>
<td>CE2004_33T</td>
<td>Dan Steinberg</td>
<td>Introduction to MARS: Predictive Modeling with Nonlinear Automated Regression Tools</td>
<td>Manitoba</td>
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<td>1:00 p.m.-3:00 p.m.</td>
<td>CE2004_34T</td>
<td>Anthony An</td>
<td>Analyzing Sample Survey Data Using SAS</td>
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<td>1:00 p.m.-3:00 p.m.</td>
<td>CE2004_35T</td>
<td>Jennifer Atlas</td>
<td>What's New in Minitab 14: Statistics and Customization</td>
<td>Quebec</td>
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<td>1:00 p.m.-3:00 p.m.</td>
<td>CE2004_36T</td>
<td>Dan Steinberg</td>
<td>Advances in Data Mining: Jerome Friedman's MART and Leo Breiman's Random Forests</td>
<td>Manitoba</td>
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<td>3:00 p.m.-5:00 p.m.</td>
<td>CE2004_37T</td>
<td>Mark Bailey</td>
<td>Interactive Demonstrations of Statistical Concepts Using JMP</td>
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<td>3:00 p.m.-5:00 p.m.</td>
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<td>What's New in Minitab 14: Graphics</td>
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<td>3:00 p.m.-5:00 p.m.</td>
<td>CE2004_39T</td>
<td>Cyrus R. Mehta</td>
<td>Adaptive Clinical Trials and Sample Size Re-estimation with the East Software</td>
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- University of Windsor, Dept. of Math and Stat.
- Villanova University
- Westat

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<td>Job Posting and Resume Submission Only</td>
<td>9:00 a.m.–5:00 p.m.</td>
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<td>Sunday, August 8</td>
<td>Job Posting and Resume Submission Only</td>
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<td>Full Career Placement Service Open</td>
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<td>Monday, August 9</td>
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<td>Wednesday, August 11</td>
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<td>Thursday, August 12</td>
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SPSS

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Minitab
Novartis Pharmaceuticals
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Chapman & Hall/CRC, Boca Raton, FL, 500, 502, 504, 506
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Data Description, Inc., Ithaca, NY, 406
Data Description is demonstrating a preview version of Data Desk 7. This version supports direct attachment to databases, offers tools for customization and modification, and provides new tools for exploring data. The company is also demonstrating all of its multimedia courses including ActivStats, ActivEpi, and ProgramLive.

Duxbury, Thomson, Belmont, CA, 115, 117, 119
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Elsevier, New York, NY, 120, 122

Everest Clinical Research Services Inc., Thornhill, ON, 221
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Hawkes Learning Systems, Charleston, SC, 401
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Learn how JMP® software can help your organization make significant process improvements that increase the efficiency of doing business and give you a competitive edge. JMP links statistics with graphics to interactively explore, understand, and visualize data, providing statistical tools, DOE, and Statistical Quality Control in a single package.

JSM 2005-Minneapolis, Alexandria, VA, 419
Visit the Minneapolis Booth in the Exhibit Hall and find out more about “Using Our Discipline to Enhance Human Welfare.” Get information about the conference hotels and registration costs and learn more about Minneapolis.

JOHN WILEY & SONS, INC., Hoboken, NJ, 515, 517, 519, 521
John Wiley & Sons, is a global publisher of print and electronic products world wide, providing leading books, journals, and subscription services in many scientific and technical areas including geophysics, geology, hydology, and atmospheric sciences.

Kelly Scientific Resources - Clinical Research, Troy, MI, 123
KSR is the scientific business unit of Kelly Research Services. We provide scientific staffing services on a temporary, project, and full-time basis to a broad spectrum of industries including: chemical, cosmetics, food science, pharmaceutical, biomedical, consumer products, environmental, medical/clinical, petrochemical. KSR offices are staffed with experienced recruiters and scientists.

Key College Publishing, Emeryville, CA, 505
Dedicated to publishing bold alternatives to traditional mathematics. Key College Publishing offers the most dynamic courseware in undergraduate mathematics and statistics and mathematics education. We offer textbooks, instructor resources and electronic learning solutions. Visit us at www.keycollege.com or toll free 888-877-7240.

MacKichan Software, Poulsbo, WA, 402
Scientific WorkPlace and Scientific Word make writing, sharing, and doing mathematics easier. A click of a button allows you to typeset your documents in LaTeX. And, with Scientific WorkPlace, you can compute and plot solutions with the integrated computer algebra engine, MuPAD 2.5.

MedFocus, Inc., Des Plaines, IL, 417
MedFocus offers contract consulting and staffing specifically to the pharmaceutical, biotechnology, and medical device industries. MedFocus has succeeded in meeting the contract staffing needs of our employees and clients faster and more effectively than our competition through “specialized” recruiting exclusively in the clinical trials and scientific arenas.

MINITAB® Inc., State College, PA, 107, 109
MINITAB® Release 14 is the leading statistical software package used in education. Instructors at more than 4,000 colleges, universities, and high schools around the world use MINITAB because it contains all the statistical methods students need and is powerful, reliable, and easy to use. Free demo: www.minitab.com/minitab14.

NCSS, Kaysville, UT, 209
NCSS will display our statistical package and a new version of our PASS sample size program. We will be giving out sample cd's.

National Center for Education Statistics, Washington, DC, 220
The statistical agency of the U.S. Department of Education and the primary federal provider of statistics on the condition of American education.
**National Center for Health Statistics, Hyattsville, MD, 224**

This year’s exhibit will showcase the various NCHS programmatic areas with an emphasis on statistical research and methodology. The exhibit will allow attendees to view and acquire a host of publications, electronic products, and other promotional materials.

**Novartis Pharmaceuticals Corporation, East Hanover, NJ, 425, 423**

Are you looking to work in a global growth company where you can make a real difference? With about 77,200 associates around the globe in our affiliates in over 140 countries, we share a vision of a better today and tomorrow for patients. We improve lives, extend lives, save lives.

**Oxford University Press, New York, NY, 205, 207**

**PROMETRIKA, Cambridge, MA, 420**

PROMETRIKA is a contract research organization serving the pharmaceutical and biotechnology industries, offering complete biostatistical, data management, medical writing, and regulatory submission services. PROMETRIKA helps clients achieve efficient, successful drug development by providing innovative perspectives on their clinical trial design and delivering high-quality databases, study reports, and final dossiers.

**Palisade Corporation, Newfield, NY, 400**

**Pfizer Global Research & Development, New London, CT, 218**

Pfizer Global Research and Development’s discovery and development division is one of the finest pharmaceutical research institutions in the world. Pfizer discovers and delivers medicines to enhance the health of people and animals. Our search for new treatments spans research projects across multiple therapeutics areas—more than any other company.

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**Student Opportunities**

**JSM 2004**

- Reduced JSM Registration Fee of $50
- Reduced Continuing Education Fees
- Free Student Mixer
- Reduced Career Placement Service registration fees
- Cox Scholarship Fun Run/Walk
- State-of-the-Art Exhibit Hall
- Networking opportunities with renowned statisticians and other students
- Technical presentations
- Join ASA for $10!

[www.amstat.org/meetings/jsm/2004]
Placemart Personnel Service, Tinton Falls, NJ, 520
Placemart Personnel Service specializes in executive search services in clinical drug and medical product R&D. For over 38 years we have been matching jobs and job candidates in biostatistics. Typical positions include Directors, Managers, Project Managers, Group Leaders, Biostatisticians, Data Analysts, and Statistical Programmers. For additional details visit www.placemart.com.

Prentice Hall, Upper Saddle River, NJ, 314,316
Prentice Hall will display statistics textbooks ranging from the introductory level, such as Michael Sullivan’s Statistics: Informed Decisions Using Data and John E. Freund’s Modern Elementary Statistics, to more advanced and specialized course texts, like Epstein’s Medical Image Processing.

Project Euclid, Ithaca, NY, 403
Project Euclid is a user-centered initiative to create an environment for the effective and affordable distribution of serial literature in mathematics and statistics. Project Euclid is designed to address the unique needs of independent and society journals through a collaborative partnership with scholarly publishers, professional societies, and academic libraries.

Publishers’ Book Display, Alexandria, VA, 421
Visit the Publishers’ Book Display booth to review books and literature from publishers unable to attend this year’s JSM. Discounted order forms will be available.

RTI International, Durham, NC, 206,208
For 45 years RTI statisticians have developed scientifically accepted statistical methodologies to address major national/global public policy issues. New this year is the release of SUDAAN 9.0 that offers various enhancements including analyzing multiply imputed datasets, several new statements to improve usability, and additional statistics/options added to nearly all procedures.

Resampling Stats, Inc., Arlington, VA, 118
Software for resampling and data mining: Resampling Stats (stand-alone and Excel add-in), XLMiner (data mining add-in for Excel with classification and regression trees, neural nets, clustering, k-nearest-neighbor classifier, Bayesian classifier, logistic regression, multiple regression, discriminant analysis, association rules, principal components, automatic partitioning into training, validation and test data).

SAGE Publications, Thousand Oaks, CA, 416
SAGE Publications—an independent international publisher in the social sciences, technology, and medicine—provides journals, books, and electronic media of the highest caliber. Researcher, students, and professionals have relied on our innovative resources for over 35 years. Please stop by our booth or visit us at www.sagepub.com.

SAS, Cary, NC, 101, 103, 105
SAS will exhibit its analytical software for statistics, data mining, text mining, econometrics, and statistical quality control. Please visit our booth and learn about the statistical graphics and other new enhancements available in SAS 9.1, our recent release.

SAS® staff is available to answer any questions. Visit booth 104 to learn more about:
- how to save 20% on orders placed or mailed to us by September 13
- new SAS Documentation titles
- the latest release of SAS OnlineDoc®
- new BBU Press titles
- SAS® Learning Edition
- SAS® Self-Paced e-Learning

SIAM, Society for Industrial & Applied Mathematics, Philadelphia, PA, 320
Visit the SIAM booth to check out the titles in Mathematics, the ASA-SIAM Series on Statistics and Applied Probability. Get recently published books and information. See sample issues of SIAM’s renowned journals, plus membership applications will be available. Don’t forget to pick up a copy of SIAM News for the road.

SMITH HANLEY, New York, NY, 308
Our two divisions, permanent placement and contract staffing offer targeted recruitment in statistics, biostatistics, SAS programming, data management, market research, health outcomes, and epidemiology. Since 1980 we’ve provided clients and recruits, dedicated service, experience and insight into industry trends for positions at all levels. www.smithhanley.com or www.smithhanley-consulting.com

SPSS, Inc., Chicago, IL, 215, 217, 219
SPSS Inc. is a provider of predictive analytics technology and services. The company’s predictive analytics technology connects data to effective action by drawing reliable conclusions about current conditions and future events. More than 250,000 customers rely on SPSS technology to help increase revenue, reduce costs, improve processes, and detect and prevent fraud.

Salford Systems, San Diego, CA, 418
Salford systems develops advanced statistical and data mining software, including the Cart® decision tree, MARS® automated regression, TreeNet™ boosted decision trees and Random Forests™ Salford Systems strives to make the best academic research easily usable by the practicing data analyst and has recently won several distinguished international honors.

Spotfire, Inc., Somerville, MA, 325
Spotfire, Inc. provides Guided Analytic applications and services that empower extended enterprises and their end-users to make faster, more effective decisions. More than 700 Global 2000 customers, such as pharmaceutical, high-tech manufacturing oil and gas, consumer packaged goods, and academic markets, and over 25,000 users gain insights with Spotfire products worldwide.
Springer is known for publishing essential books and journals in statistics. All books 20% off.

Stat-Ease, Inc., Minneapolis, MN, 405
Stat-Ease, Inc. produces two easy-to-use Windows programs for design of experiments (DOE) including:
- Design-Ease® software for finding breakthrough factors
- Design-Expert® software for optimization
The company also offers computer-intensive DOE workshops including:
- Experiment Design Made Easy
- Response Surface Methods for Process Optimization
- Mixture Design for Optimal Formulations

StatPoint, Inc., Orlean, VA, 319
Developers of statistical software, including STATGRAPHICS, STATLETS, and STATBEANS. STATGRAPHICS is a comprehensive statistical package for Windows. STATLETS is a collection of applets for statistical computing over the internet. STATBEANS is a collection of statistical JavaBeans for use in other applications. Products emphasize statistical model-building, SPC, DOE, and general data analysis.

StatSoft, Inc., Tulsa, OK, 501, 503
StatSoft Inc. is one of the largest developers of enterprise-wide and desktop software for data analysis, data mining, quality control/Six Sigma and web-based analytics worldwide.

Systat Software, Inc., Richmond, CA, 214, 216
SYSTAT Software, Inc. is a leading developer and supplier of award winning scientific software and services. The family of SYSTAT products include SYSTAT®, a comprehensive statistical analysis package, SigmaPlot®, a technical graphing and presentation software, and SigmaStat®, a step-by-step guided statistical analysis software for scientists and other leading analytical software.

The Cambridge Group, Ltd., Westport, CT, 508
The Cambridge Group Ltd. focuses on careers in biostatistics, clinical data management, clinical systems, SAS programming and more. Opportunities range from entry level through senior & executive levels for both permanent and contract positions in the pharmaceutical and biotechnology industries. The Cambridge Group Ltd., 1175 Post Road East, Westport, CT 06880; email: biostat@cambridgegroup.com; Phone: (800)525-3396.

Timberlake Consultants Ltd., Union, NJ, 424
Timberlake Consultants provide a total solution to clients working in the statistics, econometrics, operational research or mathematical fields. Our areas of expertise fall into three main categories: distribution of third-party quality software, training courses, seminars and consulting projects.

U.S. Census Bureau, Washington, DC, 307, 309
The Census Bureau serves as the leading source of quality data about the nation’s people and economy. We honor privacy, protect confidentiality, share our expertise globally, and conduct our work openly. We are guided on this mission by our strong and capable workforce, our readiness to innovate, and our customers.

USDA – National Agricultural Statistics, Washington, DC, 509
The National Agricultural Statistics Service (NASS) a leader in sampling, data collection, and estimation procedures for economic, environmental, and agricultural surveys as well as the periodic Census of Agriculture. The agency also creates a number of remote sensing and Geographic Information System statistical products.

Venturi Technology Partners, Portage, MI, 317
Venturi Technology Partners is the leading provider of SAS, statistics and clinical services to companies nationwide. We help statisticians and programmers support their customers faster and more efficiently with analytical applications. Venturi is a SAS Alliance Gold Partner with over 50 offices in the U.S. and Canada.

Volt Life Sciences, Indianapolis, IN, 322
Volt Life Sciences delivers workforce solutions to meet the demands of an evolving scientific market. Pairing a diverse talent base with our customers’ quest for innovation and project evolution has made us the choice partner for WorkforceDesign™ in the biopharmaceutical industry.

W.H. Freeman & Company, New York, NY, 200, 202
W.H. Freeman & Company is proud to publish statistics textbooks that emphasize data analysis, technology, and the real work of professional statisticians. Visit our booth to see our complete line of texts, including Moore’s The Basic Practice of Statistics and The Practice of Business Statistics - and a new media supplement, E-STAT Pack!

EXPO2004
Hours
Sunday, August 8 1:00p.m.-6p.m.
Monday, August 9 9:00a.m.-6p.m.
Tuesday, August 10 9:00a.m.-6p.m.
Wednesday, August 11 9:00a.m.-2:00p.m.
REGISTER for the JSM Career Placement Service

No matter what your current situation, if you have a degree or an interest in a career in statistics, the JSM Career Placement Service will help steer your career in the right direction.

Are you considering a master's or doctorate level degree?
Are you nearing graduation and wondering about entry-level jobs for statisticians?
Are you an experienced statistics professional interested in career transition?

What can the CAREER PLACEMENT SERVICE DO FOR YOU?

Each year, hundreds of companies, universities, recruiters, and government agencies search for applicants using the JSM Placement Service. At the 2003 JSM in San Francisco, employers listed over 250 positions for qualified statisticians. The JSM Placement Service provides the best opportunity for qualified applicants to meet employers, establish valuable contacts, and learn about organizations employing statisticians.

Career Placement Service Benefits

**Applicant Reading Area**—applicants can review binders containing complete job descriptions and contact information for all registered employers.

**Computerized Message Center**—applicants and employers can communicate throughout the meeting.

www.amstat.org/meetings/jsm/2004/placement

for more information

**Organizations Represented at Recent JSM Career Placement Services**

- Bureau of the Census
- Westat
- Centers for Disease Control
- PPD
- Duke University
- Trilogy Consulting
- Northwestern University
- Eli Lilly
- Mayo Clinic
**General Program Schedule**

**Thurs-Sat**

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### Thursday August 5

**Committee/Business Meetings & Other Activities**

- **5:00 pm–6:15 pm**
  - ASA Management Review Committee (closed)
  - Chair(s): Bradley Efron, Stanford University

- **6:30 pm–9:30 pm**
  - ASA Joint Planning/Budget Committee Working Dinner (closed)
  - Chair(s): Bradley Efron, Stanford University

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### Friday August 6

**Committee/Business Meetings & Other Activities**

- **7:45 am–9:00 am**
  - ASA Executive Committee Breakfast (closed)
  - Chair(s): Bradley Efron, Stanford University

- **9:00 am–10:45 am**
  - ASA Executive Committee (closed)
  - Chair(s): Bradley Efron, Stanford University

- **11:00 am–6:00 pm**
  - ASA Board of Directors (closed)
  - Chair(s): Bradley Efron, Stanford University

- **12:30 pm–1:15 pm**
  - ASA Board of Directors Lunch (closed)
  - Chair(s): Bradley Efron, Stanford University

- **6:30 pm–7:30 pm**
  - JSM Staff & ASA Board Reception (closed)

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### Saturday August 7

**Committee/Business Meetings & Other Activities**

- **7:00 am–4:00 pm**
  - JSM CE Pre-registered Pick Up Desk

- **7:00 am–6:00 pm**
  - Guest Services Desk

- **7:00 am–6:00 pm**
  - Special Assistance Desk

- **7:00 am–6:00 pm**
  - Press Desk

- **7:00 am–6:00 pm**
  - Speaker Work Room

- **7:00 am–6:00 pm**
  - ASA Membership Booth (Reg Area)

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**Session Tag Descriptions**

We expect both Theme and Applied sessions to draw a diverse audience.

**Theme**

JSM Theme sessions are directly relevant to the 2004 JSM theme “Statistics as a unified discipline.” These sessions highlight presentations and discussions that are on forward-looking topics which could impact the future of statistics. Theme sessions are designed to expand the frontiers of statistical thought, emphasize new directions and promote interdisciplinary collaborations and partnerships.

**Applied**

JSM Applied sessions have REAL applications at the heart of the discussions and presentations. Because these sessions are grounded in applications across the many areas of science and engineering, they may involve interdisciplinary work and include presentations by nonstatisticians. Applied Sessions vary in scope, ranging from presentations on state-of-the-art statistical methodology applied to real world problems to those that are tutorial in nature. All statisticians should find these sessions appealing.
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Details</th>
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<tbody>
<tr>
<td>7:00 am–6:00 pm</td>
<td>TCC-600 Level</td>
<td><strong>JSM Main Registration</strong></td>
</tr>
<tr>
<td>7:00 am–11:00 pm</td>
<td>TCC-600 Level</td>
<td><strong>Cyber Café and Message Center</strong></td>
</tr>
<tr>
<td>8:00 am–9:00 am</td>
<td>FRY-York</td>
<td><strong>ASA Board of Directors Breakfast (closed)</strong></td>
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<td>Chair(s): Bradley Efron, Stanford University</td>
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<tr>
<td>8:00 am–5:00 pm</td>
<td>TCC-Exhibit Hall E</td>
<td><strong>Exhibitor Move In</strong></td>
</tr>
<tr>
<td>8:00 am–5:00 pm</td>
<td>TCC-Exhibit Hall E</td>
<td><strong>Exhibitor Lounge</strong></td>
</tr>
<tr>
<td>9:00 am–4:00 pm</td>
<td>FRY-Library</td>
<td><strong>ASA Board of Directors (closed)</strong></td>
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<tr>
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<td></td>
<td>Chair(s): Bradley Efron, Stanford University</td>
</tr>
<tr>
<td>9:00 am–5:00 pm</td>
<td>TCC-Exhibit Hall F</td>
<td><strong>Career Placement Service (Job Posting and Resume Submission Only)</strong></td>
</tr>
<tr>
<td>11:30 am–12:30 pm</td>
<td>ICH-Oakville</td>
<td><strong>Association of GCRC Statisticians Lunch (closed)</strong></td>
</tr>
<tr>
<td></td>
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<td>Organizer(s): Curtis A Parvin, Washington University School of Medicine</td>
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<tr>
<td>12:00 pm–5:00 pm</td>
<td>TCC-600 Level</td>
<td><strong>ASA Marketplace</strong></td>
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<tr>
<td>12:00 pm–5:00 pm</td>
<td>TCC-600 Level</td>
<td><strong>ASA Council of Sections/Council of Chapters Booth</strong></td>
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<tr>
<td>12:00 pm–5:00 pm</td>
<td>TCC-600 Level</td>
<td><strong>Careers in Statistics Booth</strong></td>
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<tr>
<td>12:00 pm–5:00 pm</td>
<td>TCC-600 Level</td>
<td><strong>ASA Education Booth</strong></td>
</tr>
<tr>
<td>12:30 pm–1:15 pm</td>
<td>FRY-York</td>
<td><strong>ASA Board of Directors Lunch (closed) — Other</strong></td>
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<tr>
<td></td>
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<td>Chair(s): Bradley Efron, Stanford University</td>
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<tr>
<td>12:30 pm–5:30 pm</td>
<td>ICH-Caledon</td>
<td><strong>Association of GCRC Statisticians Meeting (closed)</strong></td>
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<tr>
<td></td>
<td></td>
<td>Organizer(s): Curtis A Parvin, Washington University School of Medicine</td>
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**Continuing Education (Fee Events)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Location</th>
<th>Time</th>
<th>Title</th>
<th>Organizer(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE_01C</td>
<td>FRY-Quebec</td>
<td>8:15 am–4:15 pm</td>
<td>Sample Survey Methods: Recent Developments and Applications (2-day Course)</td>
<td>Instructor(s): Jon N.K. Rao, Carleton University, Sharon Lohr, Arizona State University</td>
</tr>
<tr>
<td>CE_02C</td>
<td>FRY-Tudor 7</td>
<td>8:00 am–4:00 pm</td>
<td>Generalized Linear Latent and Mixed Models (1-day Course)</td>
<td>Instructor(s): Anders Skrondal, Norwegian Institute of Public Health; Sophia Rabe-Hesketh, University of California, Berkeley; Andrew Pickles, University of Manchester</td>
</tr>
<tr>
<td>CE_03C</td>
<td>FRY-Tudor 8</td>
<td>8:00 am–4:00 pm</td>
<td>Introduction to Clinical Trials (1-day Course)</td>
<td>Instructor(s): L. Jane Goldsmith, University of Louisville</td>
</tr>
<tr>
<td>CE_04C</td>
<td>FRY-Conference 5 &amp; 6</td>
<td>8:00 am–4:00 pm</td>
<td>Practical Bayesian Methods for Evaluating Clinical Interventions (1-day Course)</td>
<td>Instructor(s): David Spiegelhalter, Institute of Public Health</td>
</tr>
<tr>
<td>CE_05C</td>
<td>FRY-Alberta</td>
<td>8:15 am–4:15 pm</td>
<td>Modern Data Mining (1-day Course)</td>
<td>Instructor(s): David Banks, Duke University</td>
</tr>
<tr>
<td>CE_06C</td>
<td>FRY-British Columbia</td>
<td>8:15 am–4:15 pm</td>
<td>Statistical Leadership: From Consultant to Effective Leader (1-day Course) Section on Quality and Productivity, ASA</td>
<td>Instructor(s): Roger Hoel, General Electric Company; Ron Snee, Tunnell Consulting; Bill Parr, University of Tennessee; Angela Patterson, General Electric Company</td>
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