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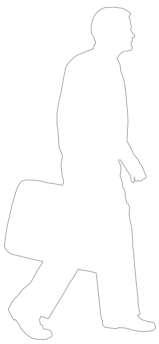

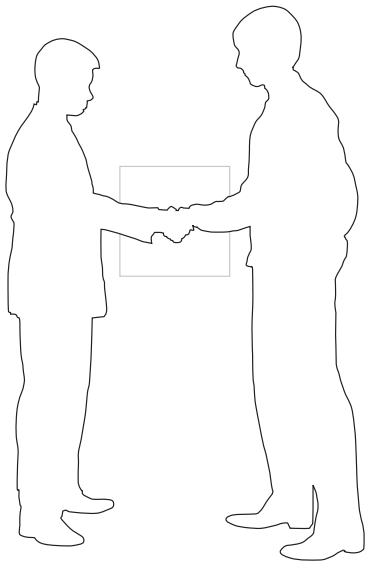

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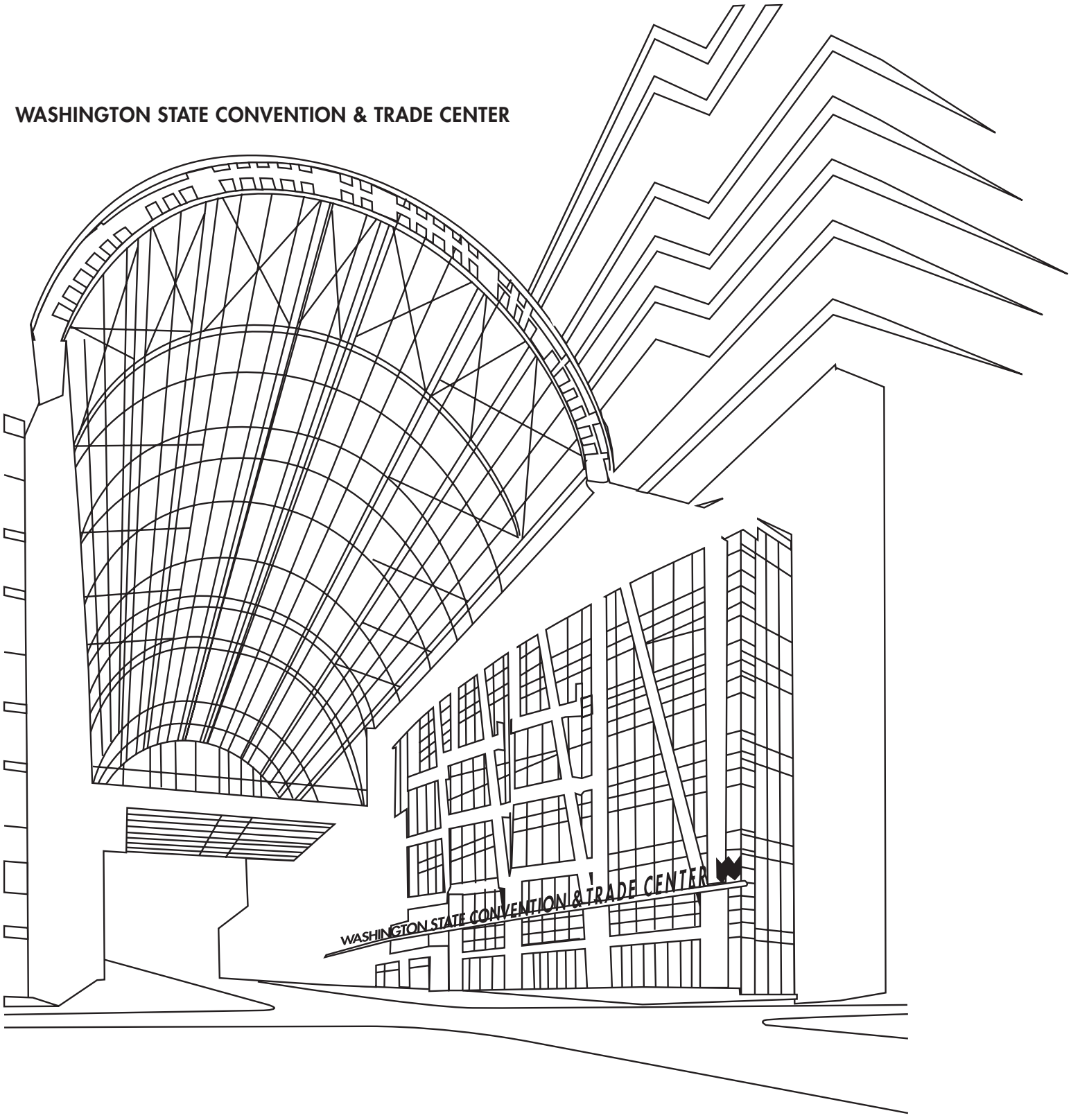
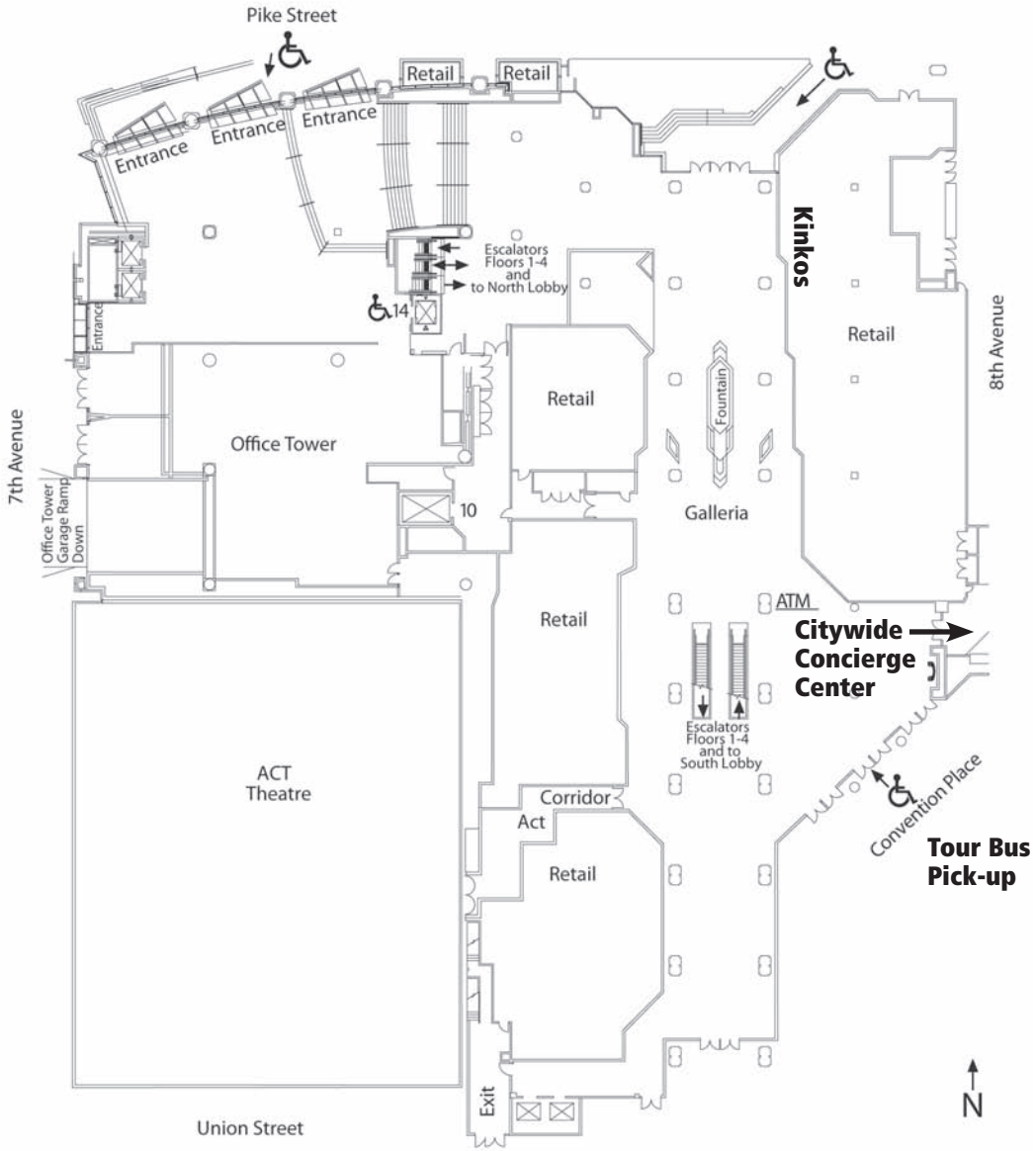
General Information

WASHINGTON STATE CONVENTION & TRADE CENTER



Washington State Convention & Trade Center

Level 1



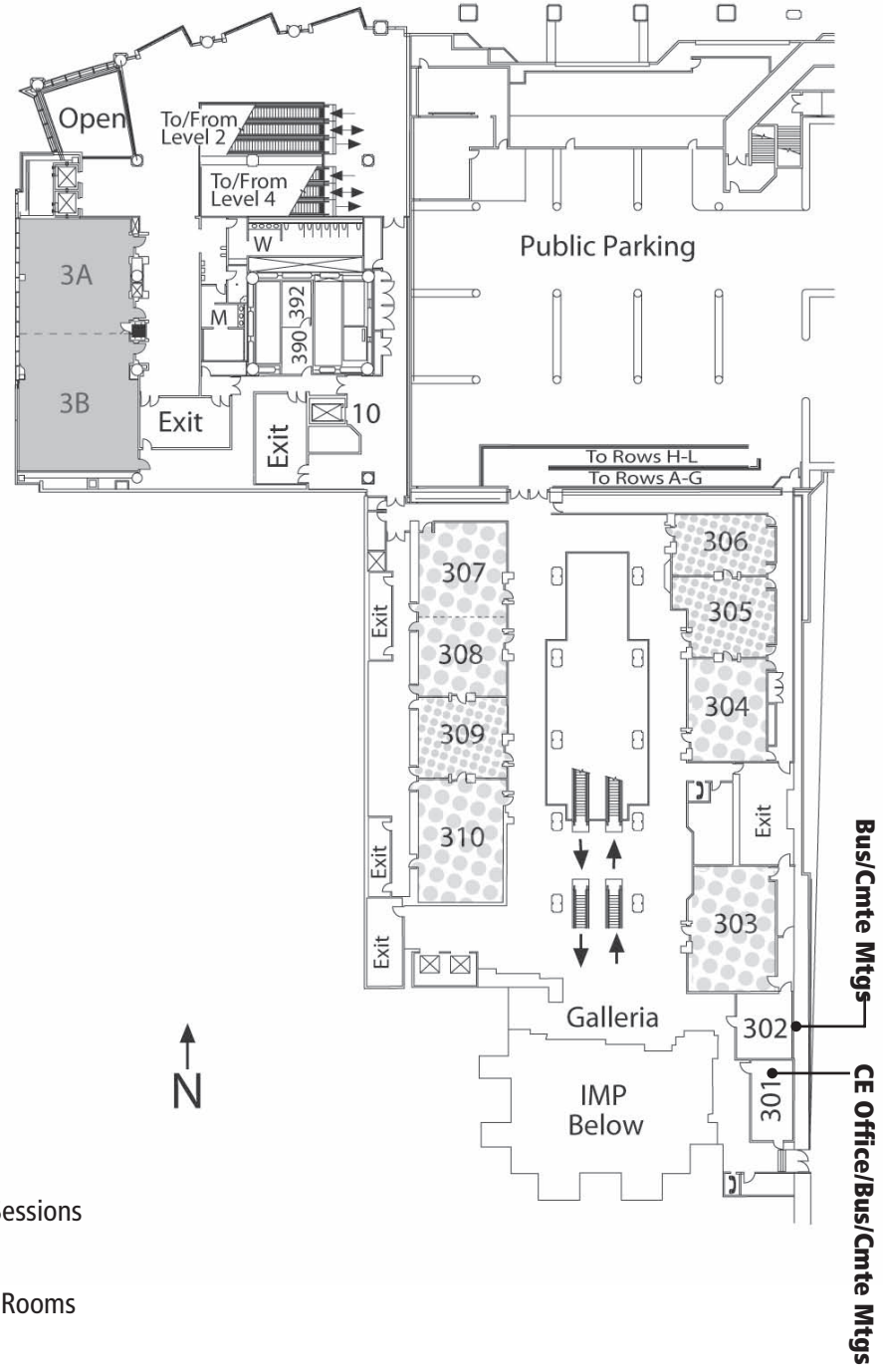
Washington State Convention & Trade Center

Level 2

—Technical Sessions

Washington State Convention & Trade Center

Level 3



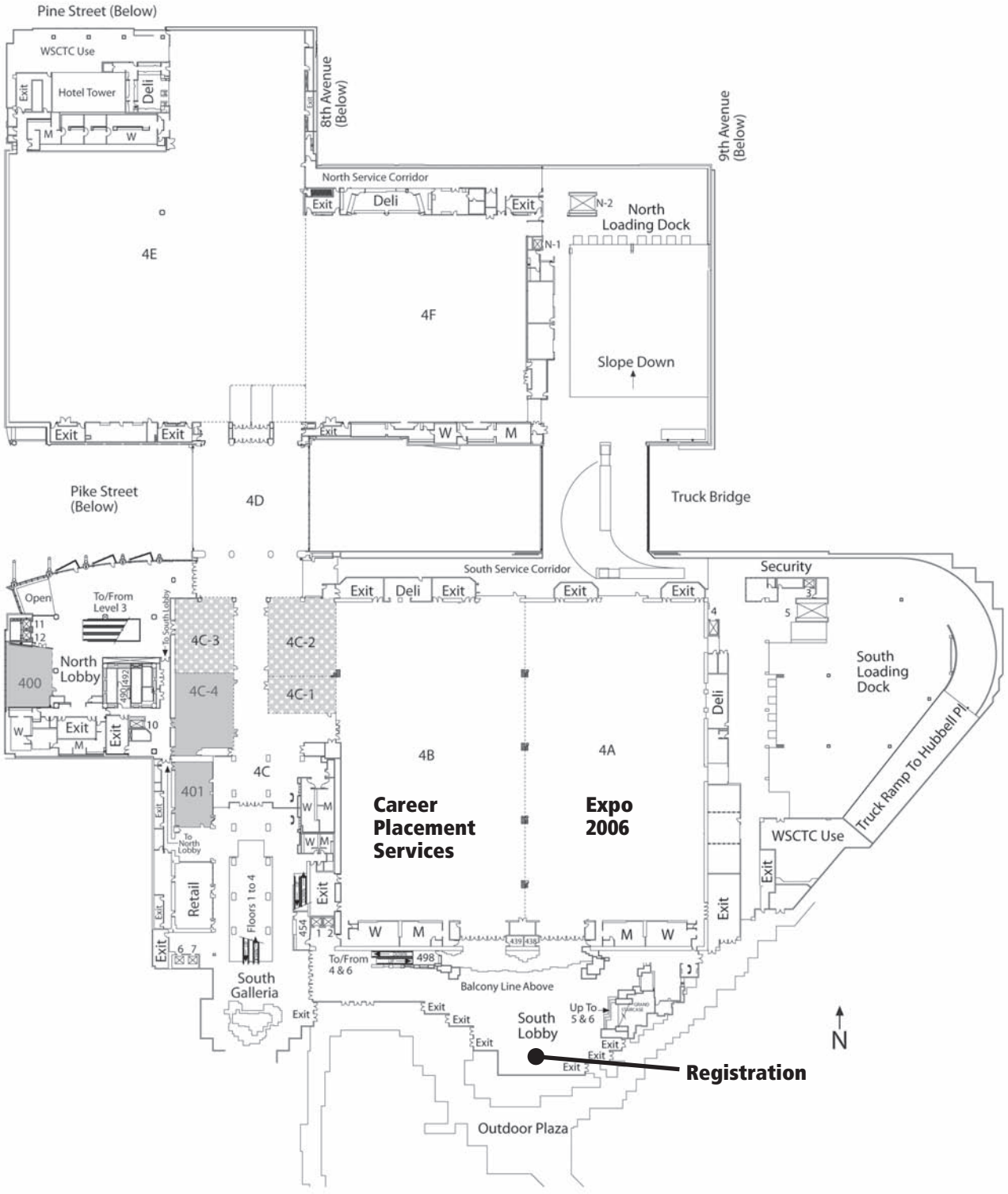
—Technical Sessions

—CE Course Rooms

—Technical Sessions and CE Course Rooms

Washington State Convention & Trade Center

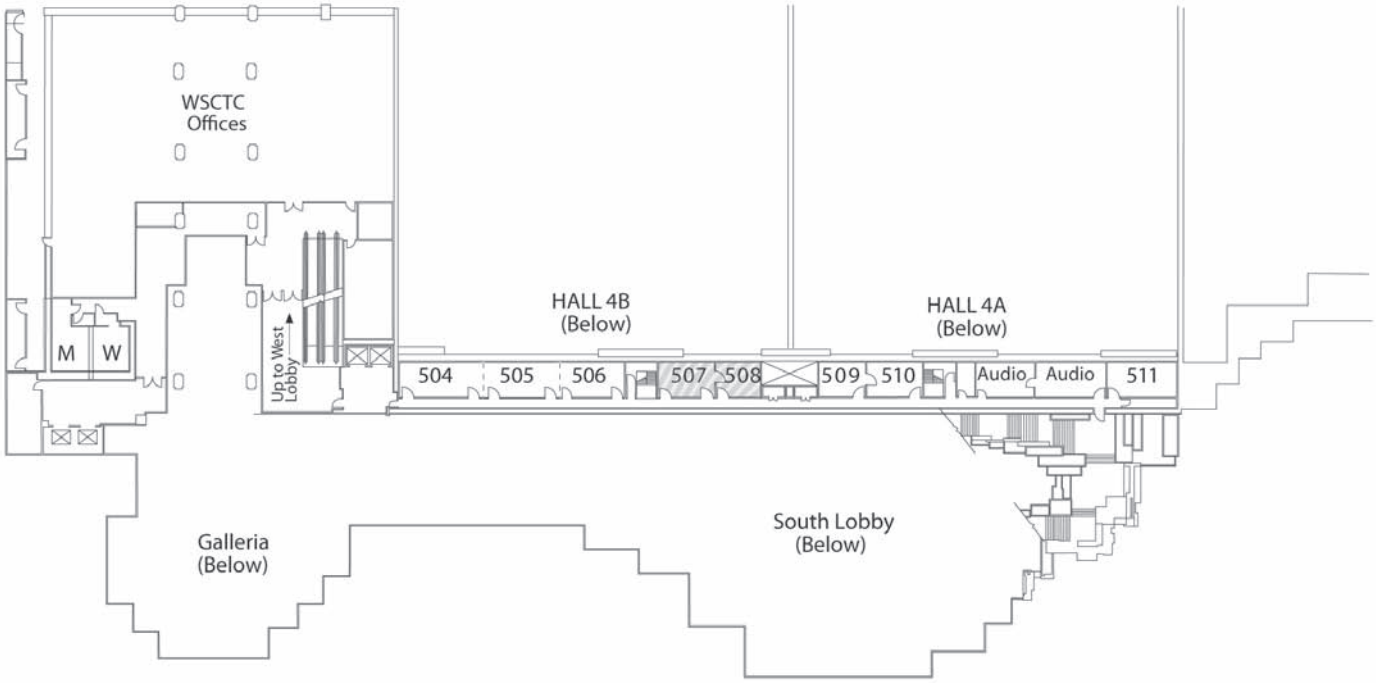
Level 4



—Technical Sessions —Roundtable/Speaker Luncheon Rooms & Bus/Cmte Mtgs

Washington State Convention & Trade Center

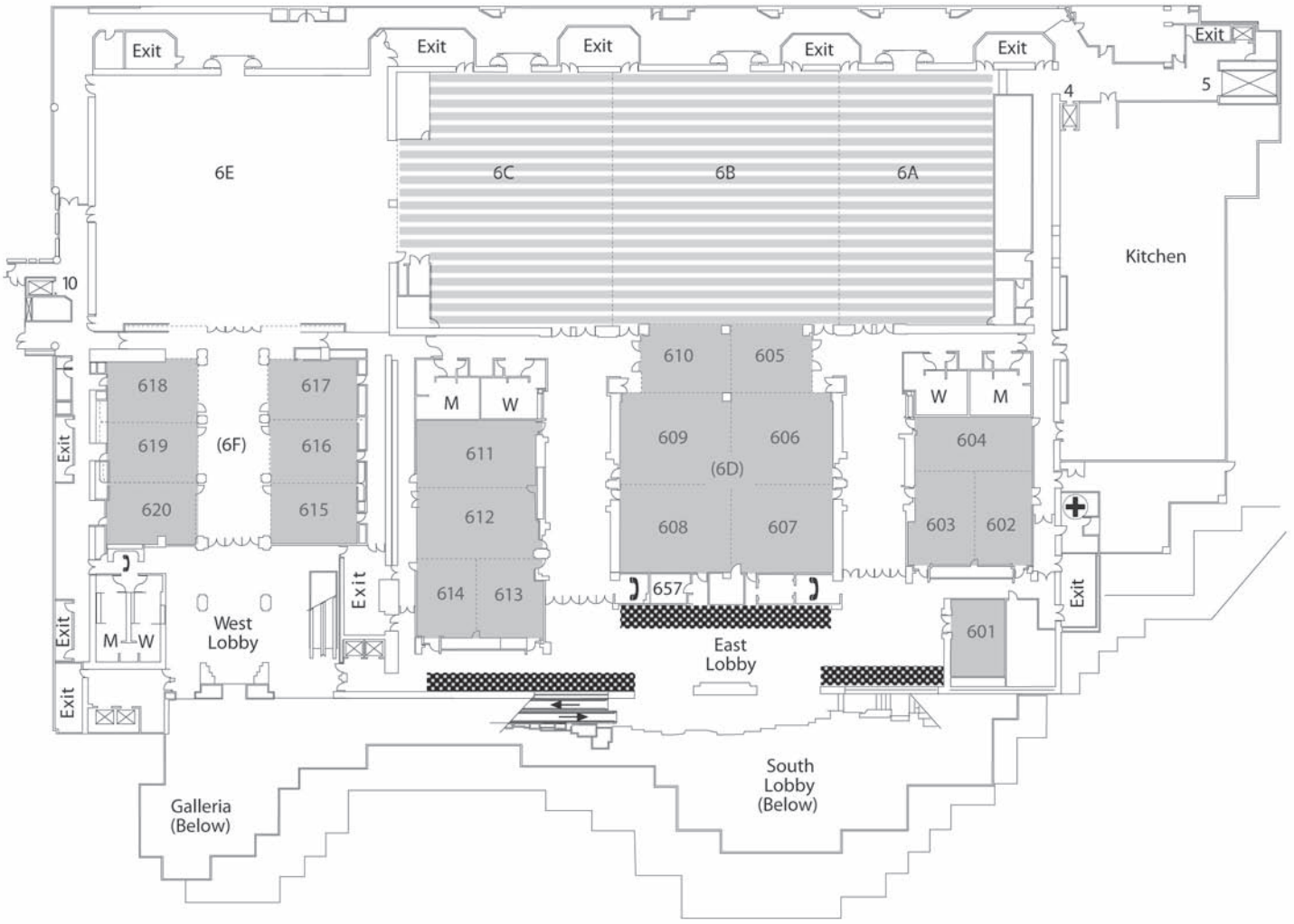
Level 5



—Speaker Workrooms

Washington State Convention & Trade Center

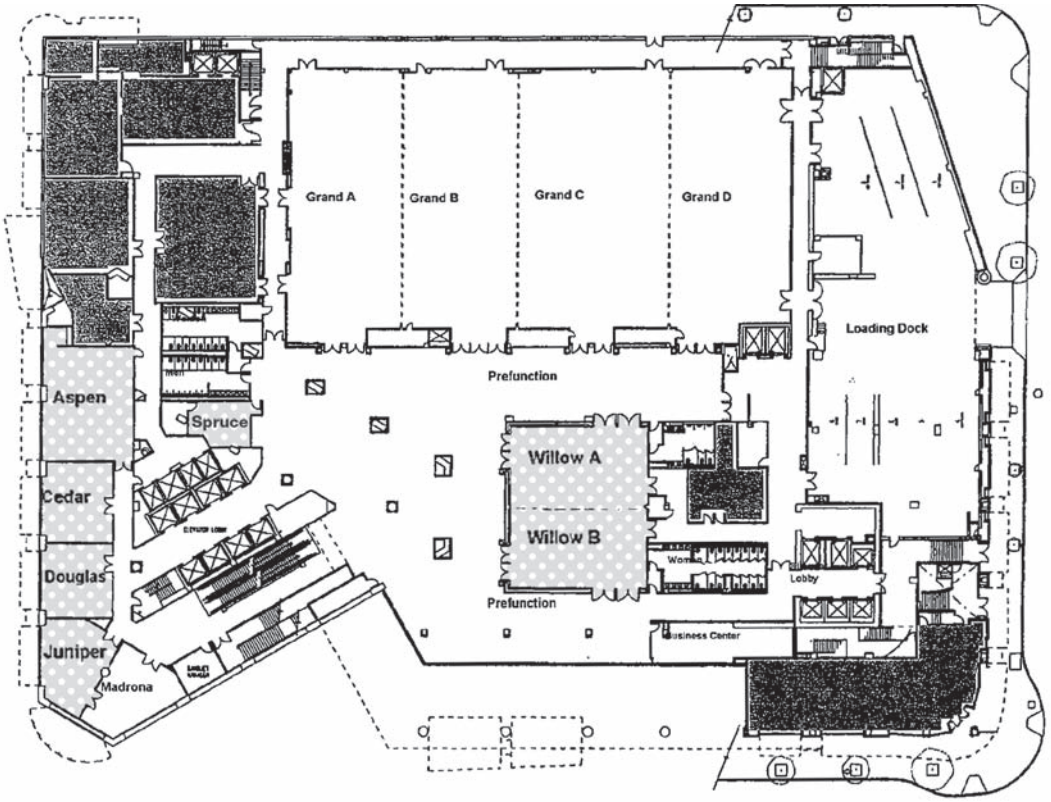
Level 6



—Poster Sessions —Technical Sessions —Mixer & Keynote Sessions

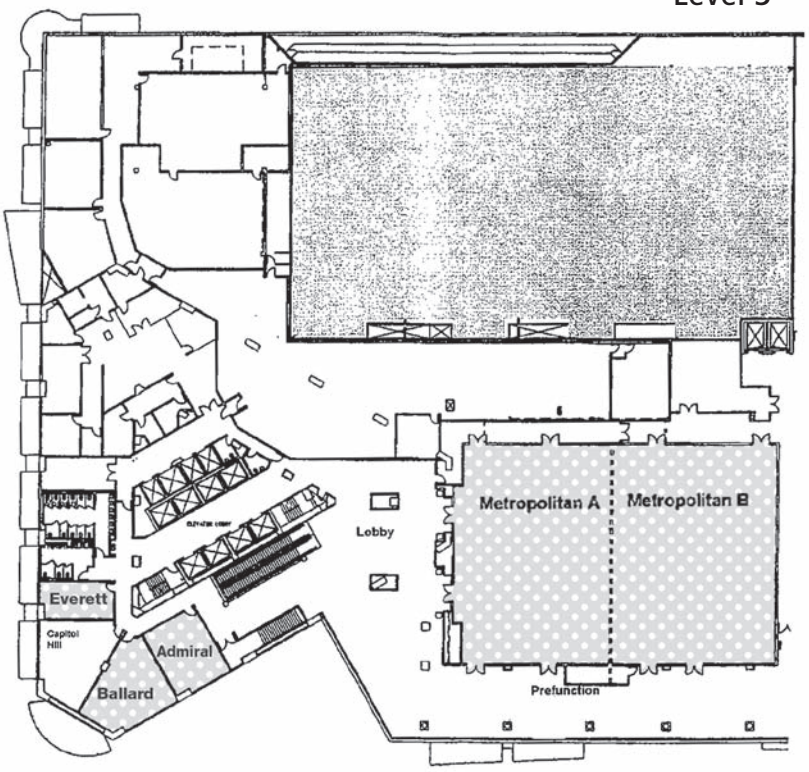
Sheraton Seattle Hotel & Towers

Level 2



—Business & Committee Meetings

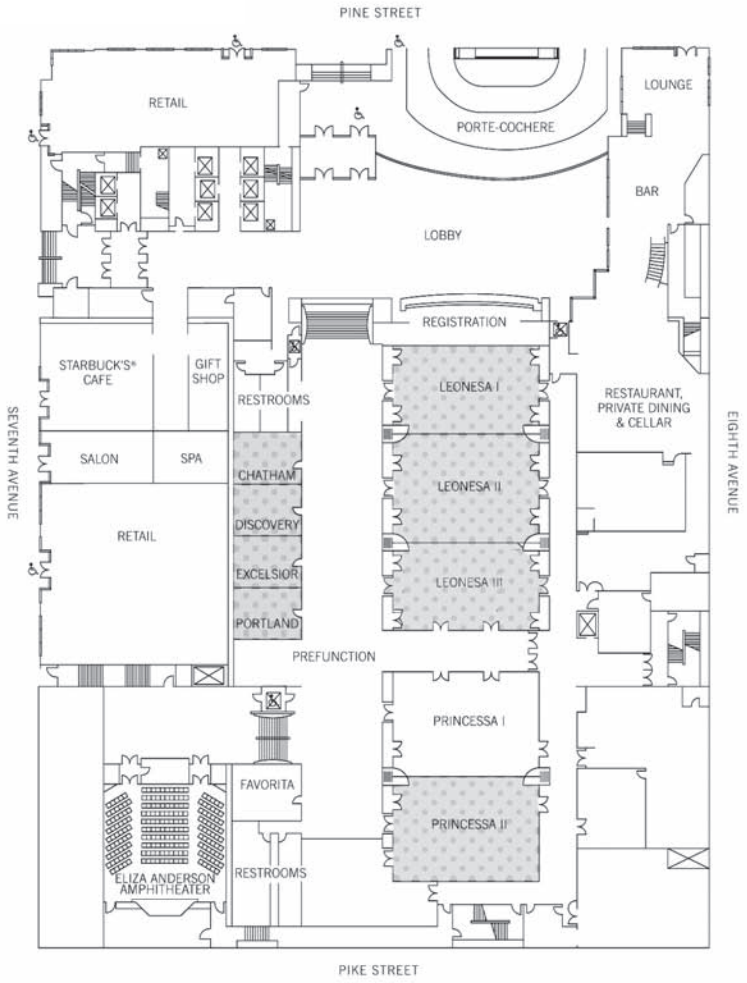
Level 3



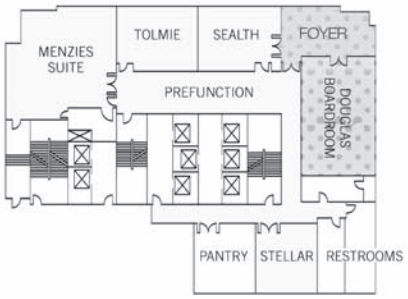
Level 35

Grand Hyatt Seattle

Level 1



Level 6



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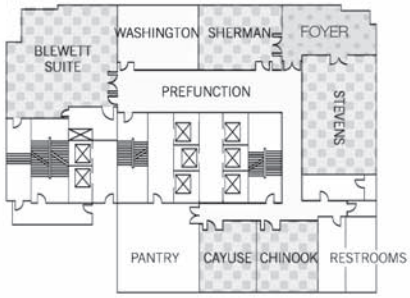


—Business & Committee Meetings

Housing Map and Hotel Listings

1 Sheraton Seattle Hotel & Towers
1400 Sixth Avenue
COC/COS, committee, and social activities

2 Grand Hyatt Seattle
721 Pine Street
Committee and social activities

No scheduled activities

3 Summerfield Suites
1011 Pike Street

4 Red Lion Hotel on Fifth Avenue
1415 Fifth Avenue

5 The Roosevelt Seattle
1531 Seventh Avenue

6 The Paramount Hotel
724 Pine Street

7 Mayflower Park Hotel
405 Olive Way

8 Hilton Seattle
1301 Sixth Avenue

9 Crowne Plaza Seattle
1113 Sixth Avenue

10 Executive Hotel Pacific
400 Spring Street

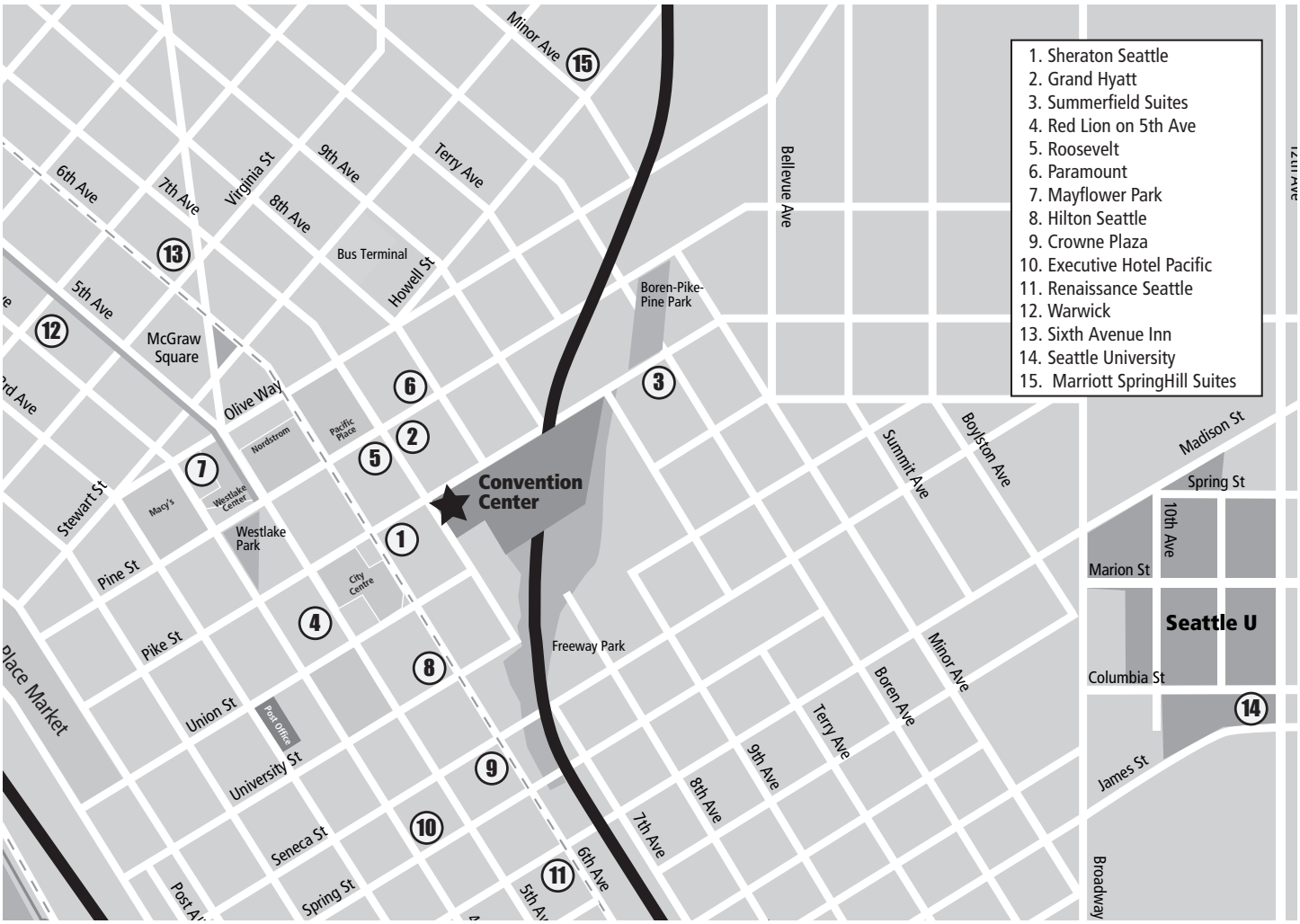
11 Renaissance Seattle Hotel
515 Madison Street

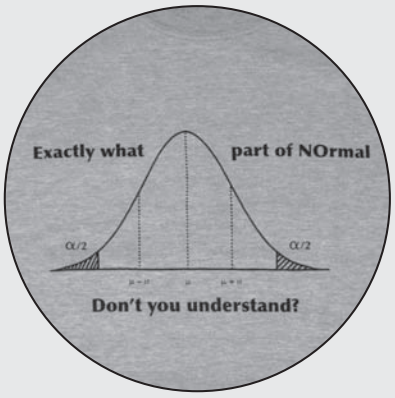
12 The Warwick Seattle Hotel
401 Lenora Street

13 Sixth Avenue Inn
2000 Sixth Avenue

14 Seattle University
1111 E. Columbia, Bellarmine Hall

15 Marriott SpringHill Suites
1800 Yale Avenue





American Statistical Association

MARKET PLACE

LOCATED IN THE MAIN REGISTRATION AREA

Saturday, Aug. 5
noon – 5:00 p.m.

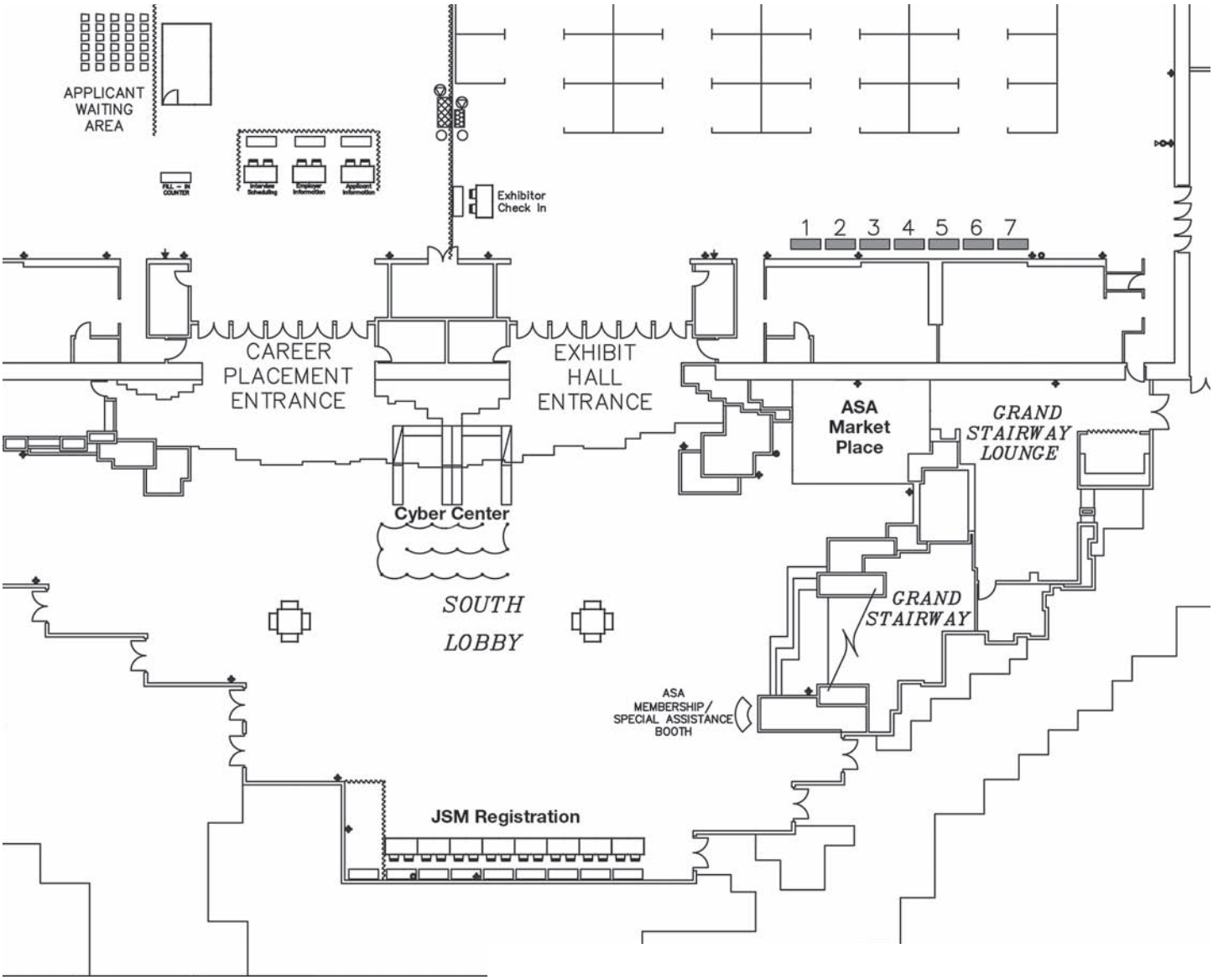
Sunday – Wednesday
Aug. 6 – Aug. 9
9:00 a.m. – 5:00 p.m.

Thursday, Aug. 10
8:00 – 10:30 a.m.

Mugs, hats, ASA apparel, children's shirts, JSM shirts, pens, and more!

JSM Registration Area Floor Plan and Committee or Society Tables

Washington State Convention & Trade Center—Level 4



—Committee or Society Tables

1. Caucus for Women in Statistics
2. Christian Statisticians
3. Federal Committee on Statistical Methodology (FCSM)
4. Gay and Lesbian Concerns in Statistics
5. International Chinese Statistical Association (ICSA)
6. International Indian Statistical Association (IISA)
7. International Statistical Institute (ISI)

While at JSM...

Emergency Telephone Messages

The general conference telephone number is (206) 219-4700. 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 Cyber Center, located in the registration area at the Washington State Convention & Trade Center. All other calls or messages should be left in the attendee's guestroom on his/her voice mail.

Convention Hotels

The main phone numbers for the convention hotels are:

Sheraton Seattle Hotel & Towers	**(206) 621-9000**
Grand Hyatt Seattle	**(206) 774-1234**
Summerfield Suites	**(206) 682-8282**
Red Lion Hotel on Fifth Avenue	**(206) 971-8000**
The Roosevelt Seattle	**(206) 621-1200**
The Paramount Hotel	**(206) 292-9500**
Mayflower Park Hotel	**(206) 623-8700**
Hilton Seattle	**(206) 624-0500**
Crowne Plaza Seattle	**(206) 464-1980**
Executive Hotel Pacific	**(206) 623-3900**
Renaissance Seattle Hotel	**(206) 583-0300**
The Warwick Seattle Hotel	**(206) 443-4300**
Sixth Avenue Inn	**(206) 441-8300**
Seattle University, Bellarmine Hall	**(206) 296-5620**
Marriott SpringHill Suites	**(206) 254-0500**

Assistance for Those with Disabilities

If you have a disability that may impede your participation, please contact a staff member at the Special Assistance Desk on Level 4, South Lobby, of the Washington State Convention & Trade Center.

Child Care

While JSM will not have organized child care, services may be organized through PANDA Dial-a-Sitter. Child care providers will come to your hotel room; the rate is $76 (plus parking) for four hours of service for up to two children, with an additional fee of $14 per hour thereafter. With the addition of a third child, the fee is $88 (plus parking) and $16/hour after the four-hour minimum. All three children cannot be under the age of 5. The fee for two families that want to share a sitter is decided on a case-by-case basis. For more information, call (206) 325-2327 or visit *www.seattlesbestchildcare.com.*

The Caucus for Women in Statistics will provide a subsidy toward four hours of babysitting per family for up to 14 families. For details, contact Mary Gray at *mgray@american.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 speakers 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 sessions, workshops, luncheons, and receptions (unless the event is outside).

Photographs and Videotaping

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.

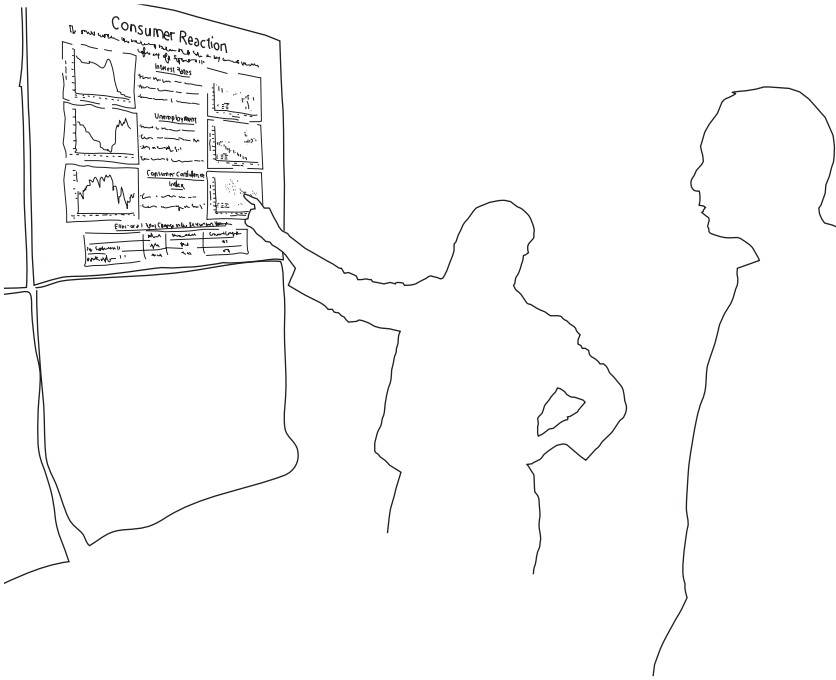
Recycling at JSM

Your participation can make the difference. You can help by making use of the paper, plastic, aluminum, and glass trash containers in the lobby areas of the Washington State Convention & Trade Center. Also, participating in the towel and linen programs in use at the area hotels makes a significant impact on the amount of energy and water used. You also can change the option from print to not print or use the paper recycling containers available at the Cyber Center to help us continue our efforts to conserve. If you have additional questions, please stop by the Special Assistance Desk at the Washington State Convention & Trade Center registration area.

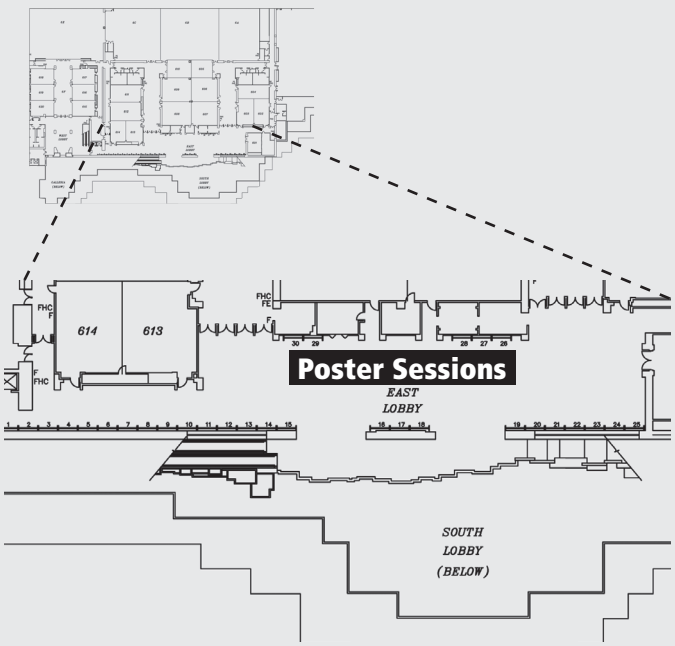
Poster Sessions
CC – Level 6, East Lobby

Regular and topic-contributed poster sessions are held Sunday from 4:00 p.m.–5:50 p.m. and 8:00 p.m.– 9:50 p.m. and Monday, Tuesday, and Wednesday from 10:30 a.m.–12:20 p.m. and 2:00 p.m.–3:50 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 board corresponding to the number in the program and will remain for the allotted time.

The Monday morning session includes the **Data Expo** competition entries, which provide graphical summaries of a NASA dataset containing geographic and atmospheric data. The competition is sponsored by the Sections on Statistical Graphics, Statistical Computing, and Statistics and the Environment.



Poster Session Location



Washington State Convention & Trade Center
Level 6, East Lobby

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 2007 JSM Program Chair Allan Rossman at *arossman@calpoly.edu*.

Sunday, August 6, 2:00 p.m. - 3:50 p.m. CC-4C-4
Session 1 ***Genetic Association Studies***

Sunday, August 6, 4:00 p.m. - 5:50 p.m. CC-4C-4
Session 38 ***Adaptive Designs/Interim Pilots and Regression Trees***

Monday, August 7, 8:30 a.m. - 10:20 a.m. CC-400
Session 83 ***Statistical Consulting***

Tuesday, August 8, 8:30 a.m. - 10:20 a.m. CC-4C-4
Session 219 ***Computer Experiments***

Wednesday, August 9, 8:30 a.m. - 10:20 a.m. CC-4C-4
Session 355 ***Image Statistics and Bootstrap***

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.

Monday, August 7, 2:00 p.m. – 3:50 p.m. CC - 4C-4
Session 173 ***Statistical/Mathematical Challenges in Biodefense Immune Modeling***

Wednesday, August 9, 8:30 a.m. – 10:20 a.m. CC-400
Session 354 ***What Is the Role of Statistics in Public Policy Debates about Climate Change?***

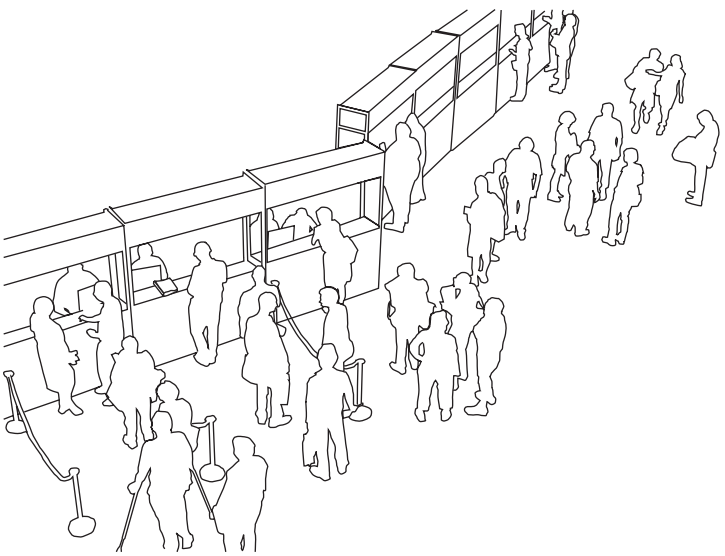
Business and Committee Meetings

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 for JSM attendees to give suggestions about Section business.

Opening Mixer

CC – Ballroom 6ABC

Don't miss your chance to get JSM 2006 off to a great start while enjoying refreshments with your colleagues. Join us Sunday, August 6, from 8:00 p.m. - 10:30 p.m. Based on last year's success, a poster session will be on display during the mixer in the East Lobby. We will see you there!



Student Mixer

S – Metropolitan Ballroom B

Student registrants can enjoy refreshments, meet their peers, and make plans for local events and outings at this mixer, Monday, August 7, from 6:00 p.m. – 7:30 p.m. The 2006 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, if held during JSM. This is your chance to give your input to the officers and other members of your society.

American Statistical Association CC-612
Sunday, August 6, 6:00 p.m. – 7:30 p.m.

Statistical Society of Canada Reception H-Princessa II Ballroom
Monday, August 7, 5:00 p.m. – 7:00 p.m.

IMS Member Reception S-Aspen
Monday, August 7, 5:30 p.m. – 7:00 p.m.

International Biometric Society, ENAR Business Meeting CC-604
Tuesday, August 8, 5:30 p.m. – 7:00 p.m.

IMS New Member & Student Reception S-Willow A
Tuesday, August 8, 5:30 p.m. – 6:30 p.m.

Gertrude Cox Scholarship Race

5K Race and 2.5K Fun Run/Walk

Tuesday, August 8

The Caucus for Women in Statistics, in conjunction with the ASA, presents the 17th annual Gertrude Cox Scholarship Race at the Joint Statistical Meetings in Seattle, Washington. All proceeds will benefit the Gertrude M. Cox Scholarship in Statistics.

The Race: Two races running concurrently—a competitive 5K and a 2.5K fun run/walk

When: Tuesday, August 8, at 7:00 a.m.

Where: Location and logistical information will be posted at the caucus table in the exhibit hall, Hall 4A, Level 4 of the Washington State Convention & Trade Center.

How Much: The entry fee is **$20**.

Registration: Those interested in participating are encouraged to register early. You may register at the hospitality table for the Caucus for Women in Statistics in the exhibit hall, Hall 4A, Level 4 of the Washington State Convention & Trade Center. All participants must sign a registration form and waiver. T-shirts for all preregistered runners will be distributed at the race. If you have questions, please contact Lori Thombs at *thombsl@missouri.edu* or (573) 882-3844.

REGISTRATION FORM (each participant must complete and sign form)

Name _____

Address _____

City _____ State/Province _____ ZIP/Postal Code _____

Phone _____

Gender ❑ M ❑ F Age _____

Event ❑ 5K Race ❑ 2.5K Fun Run/Walk

T-shirt size ❑ L ❑ XL

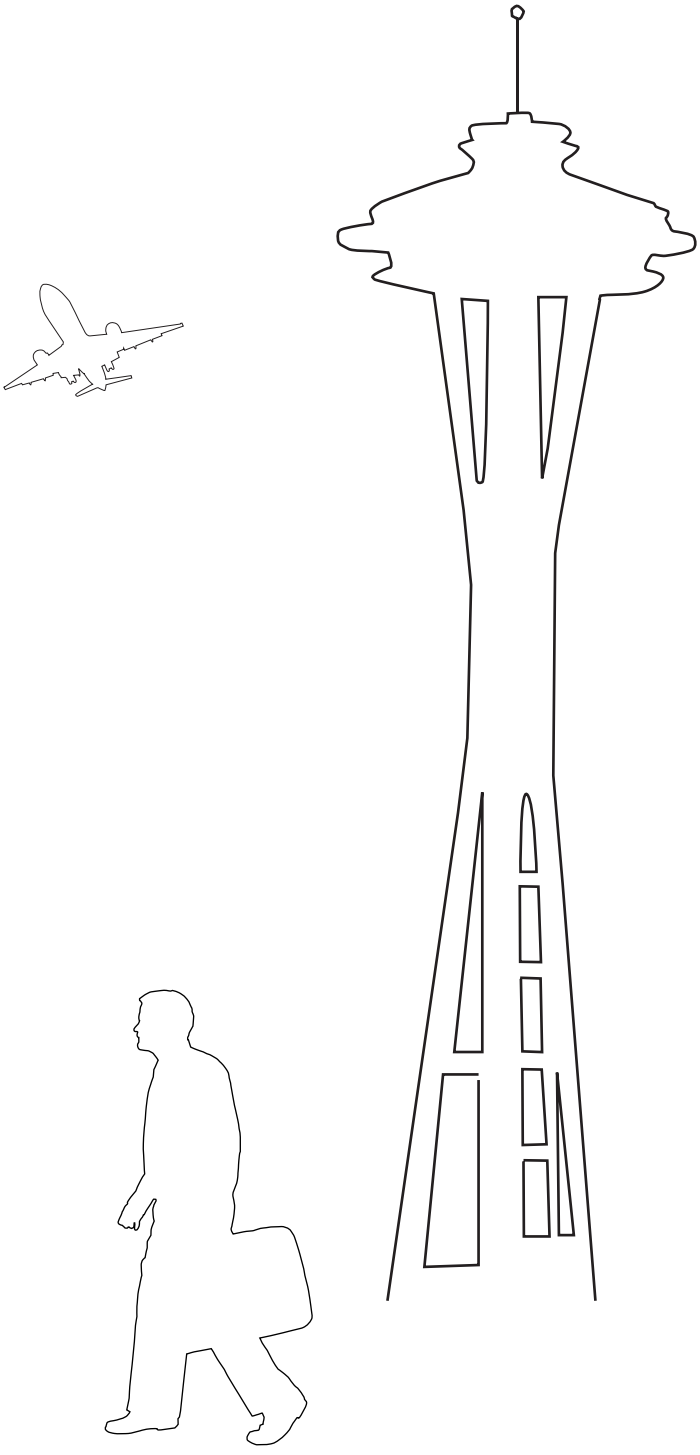
The fine print. I understand that running a road race is a potentially hazardous activity. I will not enter and run unless I am medically able and properly trained. I agree to abide by any decision of a race official relative to my ability to complete the run safely. I assume all risks associated with 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 to (573) 884-5524.

Before Leaving JSM...



Recycling Badge Holders

JSM badges and badge holders will be collected for recycling. Please place those you are not reusing into a designated bin in the registration area.

new Proceedings policy

2006 JSM Proceedings

A copy of the 2006 Proceedings CD-ROM is included with most registration types; however, additional copies may be ordered by calling (888) 231-3473 or visiting *www.amstat.org/asastore*. CDs will mail in early 2007.

Anyone who orally presents a paper, panel, or poster during JSM is eligible to submit a paper for publication on the 2006 Proceedings CD-ROM. For information about submitting a paper, visit *www.amstat.org/meetings/jsm/2006/index.cfm?fuseaction=proceedings*. Papers may be submitted from August 1–October 20 and must be in electronic format.

JSM 2007

The 2007 Joint Statistical Meetings will be held in Salt Lake City, Utah, July 29–August 2, at the Salt Palace Convention Center. Preliminary information about JSM 2007 can be found at the Salt Lake Booth, #109, at this year's EXPO. The complete listing of the 2007 Program Committee and instructions for submitting contributed papers appeared in the June issue of *Amstat News* and can be found at *www.amstat.org/meetings/jsm/2007*.

If You Are Not a Member...

Information about the ASA, ENAR, WNAR, IMS, and SSC will be available at the society booths located in the exhibit hall. Each society provides a variety of publications and activities to anyone interested in applied and/or theoretical statistics. Student membership is offered at substantially reduced rates.

If you are not already a member of the ASA, join now and receive a $15 discount on your first year of Limited or Regular membership. Join at the ASA Membership/Special Assistance Desk in the registration area by Thursday, August 10, at 10 a.m. to receive your discount. This discount is valid for Limited or Regular memberships only. Ask about other discounted memberships for students, post-graduates, retirees, and developing country residents.

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 Level 4, South Lobby, of the Washington State Convention & Trade Center. The ASA Membership/Special Assistance Desk also is located here. Additionally, you may add Continuing Education courses, the Career Placement Service, tours, guests, roundtables with coffee, and roundtables with lunch to your registration at the JSM Registration Desk. Hours of operation:

Saturday, August 5	**7:00 a.m. – 6:00 p.m.**
Sunday, August 6	**7:00 a.m. – 8:30 p.m.**
Monday, August 7	**7:30 a.m. – 6:00 p.m.**
Tuesday, August 8	**7:30 a.m. – 4:30 p.m.**
Wednesday, August 9	**7:30 a.m. – 4:30 p.m.**
Thursday, August 10	**7:30 a.m. – 10:30 a.m.**

JSM registration includes the program book and abstract book or CD, access to EXPO 2006, admission to the Opening Mixer (dry snacks, beer, and soft drinks), the Student Mixer (students only), and the Informal Dance Party (dry snacks and cash bar). If you did not purchase roundtable tickets with your advance registration, ask at the JSM Registration Desk for availability. Existing tickets will be sold until 2 p.m. on the day prior to the scheduled roundtable. NOTE: No onsite kosher or heart healthy meal tickets will be available.

ASA Continuing Education Courses

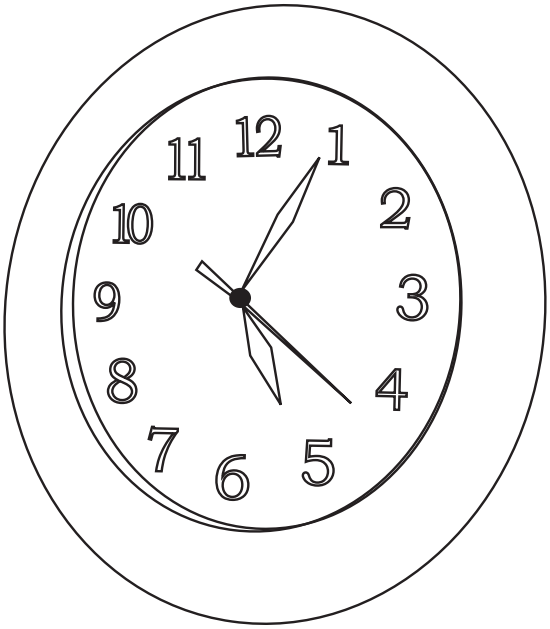
Courses will be held in rooms on Level 3 of the Washington State Convention & Trade Center. For room assignments, please review the general program or visit the Special Assistance Desk on Level 4, South Lobby, of the Washington State Convention & Trade Center.

Onsite CE Registration: Go to the JSM Registration Desk, located on Level 4, South Lobby, of the Washington State Convention & Trade Center. Availability may be limited, and textbooks will not be available.

Speaker Work Rooms

There will be two speaker work rooms this year, both at the Washington State Convention & Trade Center, Level 5, in rooms 507 and 508. Hours of operation:

Saturday, August 5	**7:00 a.m. – 6:00 p.m.**
Sunday, August 6	**7:00 a.m. – 6:00 p.m.**
Monday, August 7	**7:00 a.m. – 6:00 p.m.**
Tuesday, August 8	**7:00 a.m. – 6:00 p.m.**
Wednesday, August 9	**7:00 a.m. – 6:00 p.m.**
Thursday, August 10	**7:00 a.m. – 10:30 a.m.**



A speaker work room is available for all presenters. There will be practice equipment available in each room. The practice equipment will consist of an overhead projector and screen and a data projector and screen. To accommodate more than 3,200 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 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 connect properly to the data projector. Audiovisual technicians will be available to assist with questions or problems.

Career Placement Service

CC – Exhibit Hall 4B

The JSM 2006 Career Placement Service will be located in the Washington State Convention & Trade Center, Hall B. Hours of operation:

Saturday, August 5
Job Posting and Résumé Submission Only 9:00 a.m. – 5:00 p.m.

Sunday, August 6
Full Career Placement Service Open 1:00 p.m. – 6:00 p.m.

Monday, August 7
Full Career Placement Service Open 8:00 a.m. – 6:00 p.m.

Tuesday, August 8
Full Career Placement Service Open 8:00 a.m. – 6:00 p.m.

Wednesday, August 9
Full Career Placement Service Open 8:00 a.m. – 6:00 p.m.
(Onsite registration closes at noon.)

EXPO 2006
CC – Exhibit Hall 4A

Visit publishers, software companies, and recruiters. See state-of-the-art products designed for the statistical community.

Exhibitors Move in and out Information

Saturday, August 5
(exhibitor move in only) 8:00 a.m. – 5:00 p.m.

Sunday, August 6
(exhibitor move in only) 8:00 a.m. – 11:00 a.m.

Wednesday, August 9
(exhibitor move out only) 2:00 p.m. – 8:00 p.m.

Show Hours of Operation

Sunday, August 6	**1:00 p.m. – 6:00 p.m.**
Monday, August 7	**9:00 a.m. – 6:00 p.m.**
Tuesday, August 8	**9:00 a.m. – 6:00 p.m.**
Wednesday, August 9	**9:00 a.m. – 2:00 p.m.**

Cyber Center
CC – Level 4, South Lobby

There will be 20 terminals in the Cyber Center available for internet access and the electronic Message Center. The Cyber Center is for registered JSM attendees and will be located in the JSM registration area on Level 4, South Lobby, of the Washington State Convention & Trade Center. There will NOT be 24-hour access to the Cyber Center. To reach an attendee when the Cyber Center is closed, please call his/her hotel directly. Hours of operation:

Saturday, August 5	**7:00 a.m. – 6:00 p.m.**
Sunday, August 6	**7:00 a.m. – 10:00 p.m.**
Monday, August 7	**7:00 a.m. – 10:00 p.m.**
Tuesday, August 8	**7:00 a.m. – 10:00 p.m.**
Wednesday, August 9	**7:00 a.m. – 10:00 p.m.**
Thursday, August 10	**7:00 a.m. – 10:30 a.m.**

Wireless Internet Access

The Washington State Convention & Trade Center has wireless internet access in the following locations: 1st floor – Pike Street entrance; 2nd floor – International Meeting Place; 4th floor – South Escalator Landing; and 6th Floor – East and West lobbies. The cost is $9.95 per day; call (206) 219-5644 for technical support.

ASA Marketplace
CC – Level 4, South Lobby

The ASA Marketplace is your store for JSM and ASA souvenirs. Purchase your official JSM 2006 T-shirt, new shirt designs, great new gifts, and clearance items. Hours of operation:

Saturday, August 5	**12:00 p.m. – 5:00 p.m.**
Sunday, August 6	**9:00 a.m. – 5:00 p.m.**
Monday, August 7	**9:00 a.m. – 5:00 p.m.**
Tuesday, August 8	**9:00 a.m. – 5:00 p.m.**
Wednesday, August 9	**9:00 a.m. – 5:00 p.m.**
Thursday, August 10	**8:00 a.m. – 10:30 a.m.**

ASA Communities Booth Hours
CC – Exhibit Hall 4A, Booth 101

Learn about the many programs available to you, including Chapters, Sections, career development, statistical education, and membership. Hours of operation:

Sunday, August 6	**1:00 p.m. – 6:00 p.m.**
Monday, August 7	**9:00 a.m. – 6:00 p.m.**
Tuesday, August 8	**9:00 a.m. – 6:00 p.m.**
Wednesday, August 9	**9:00 a.m. – 2:00 p.m.**

Citywide Concierge Center
CC – Level 1

The Citywide Concierge Center is operated by the Washington State Convention & Trade Center and provides extensive information and referrals for restaurants, tours, and sightseeing—along with up-to-date maps and travel information. The center is located in the Main Lobby on Level 1 of the convention center. Hours of operation:

Saturday, August 5	**9:00 a.m. – 5:00 p.m.**
Sunday, August 6	**9:00 a.m. – 5:00 p.m.**
Monday, August 7	**9:00 a.m. – 5:00 p.m.**
Tuesday, August 8	**9:00 a.m. – 5:00 p.m.**
Wednesday, August 9	**9:00 a.m. – 5:00 p.m.**
Thursday, August 10	**9:00 a.m. – 5:00 p.m.**

President's Invited Address

"A Data-Driven World: Why Now, and What Do We Do about It?"

Monday, August 7, 4:00 p.m.

William R. Pulleyblank
Vice President, Center for Business Optimization, IBM Global Services, IBM Business Consulting Services

William R. Pulleyblank is the vice president of the Center for Business Optimization within IBM Business Consulting Services. He has served on a number of boards, advisory panels, and editorial boards. His research interests are in operations research, combinatorial optimization, and applications of optimization.

Deming Lecture

"Making Another World: a Holistic Approach to Performance Improvement"

Tuesday, August 8, 4:00 p.m.

Ronald D. Snee
Tunnell Consulting

Ron Snee is principal of Process and Organizational Excellence at Tunnell Consulting. Snee received his BA in mathematics from Washington and Jefferson College and MS and PhD degrees from Rutgers University in applied and mathematical statistics. He is a Fellow of the American Statistical Association, American Society of Quality, and the American Association for the Advancement of Science. His work has been recognized by 20 major awards and medals. He has published four books and more than 165 papers in the fields of performance improvement, statistics, quality, and management.

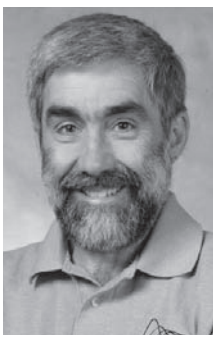
ASA Presidential Address

"From Data to Policy:
Scientific Excellence Is Our Future"

Tuesday, August 8, 8:00 p.m.

Sallie Keller-McNulty
Rice University

Sallie Keller-McNulty is dean of the George R. Brown School of Engineering, professor of statistics, and the E.D. Butcher Chair of Engineering at Rice University in Houston, Texas. She is also Fellow and president of the American Statistical Association, was named fellow of the American Association for the Advancement of Science, and is a recipient of the ASA's Founders Award. She has more than 60 statistical science publications. Her areas of research are uncertainty quantification, computational and graphical statistics and related software and modeling techniques, and data access and confidentiality.



COPSS Fisher Lecture

"Recombination and Linkage"

Wednesday, August 9, 4:00 p.m.

Terence P. Speed
University of California, Berkeley

While working toward his PhD in mathematics at Monash University, Terence P. Speed was in close contact with population genetics and heard much about Fisher's work in that area, but his research was in algebra. His first academic job was at the University of Sheffield, where he fell in love with sufficiency and dipped more deeply into Fisher's works. In 1997, he took up a 50% appointment in medical research at the University of Melbourne. Since then, he has divided his time as follows: 50% Berkeley, 50% Melbourne, and 50% in the air. Statistics, genetics, and molecular biology are among his major research interests.

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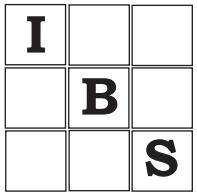
International Biometric Society—Eastern North American Region

January – December 2006



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		Tom TenHave

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2007 Joint Statistical Meetings
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Program Cochair: **Gene Pennello**

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International Biometric Society
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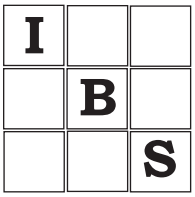
Web: *www.enar.org*

International Biometric Society—Western North American Region



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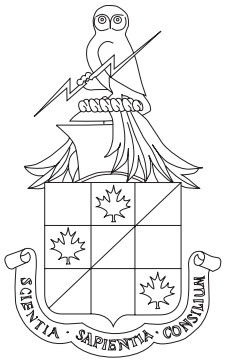
Statistical Society of Canada-Executive 2006–2007



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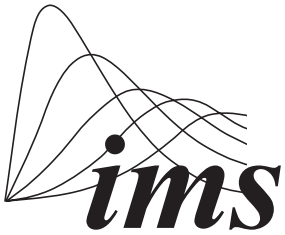
Web: *www.ssc.ca*

Institute of Mathematical Statistics



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Web: *www.imstat.org*

Continuing Education *at a glance*

	Time	Course	Instructor(s)	Course Title
SATURDAY, AUGUST 5, 2006				
	8:30 a.m. – 5:00 p.m.	CE_01C	Gary G. Koch/Todd Schwartz/Rebekkah Dann	Categorical Data Analysis (two-day course)
	8:30 a.m. – 5:00 p.m.	CE_02C	Partha Lahiri	Small Area Estimation
	8:30 a.m. – 5:00 p.m.	CE_03C	Peter Guttorp/Paul Sampson	Modern Approaches to Nonstationary Models of Spatial and Space-Time Processes with Air Quality Applications
	8:30 a.m. – 5:00 p.m.	CE_04C	Bruno Sanśo	Bayesian Inference
	8:30 a.m. – 5:00 p.m.	CE_05C	Richard De Veaux	Practical Data Mining
	8:30 a.m. – 5:00 p.m.	CE_06C	Garrett Fitzmaurice	Applied Longitudinal Analysis
SUNDAY, AUGUST 6, 2006				
	8:30 a.m. – 5:00 p.m.	CE_01C	Gary G. Koch/Todd Schwartz/Rebekkah Dann	Categorical Data Analysis (two-day course)
	8:30 a.m. – 5:00 p.m.	CE_07C	David Madigan/David Lewis	Text Mining
	8:30 a.m. – 5:00 p.m.	CE_08C	Roger Tourangeau	The Psychology of Survey Response
	8:30 a.m. – 5:00 p.m.	CE_09C	Stefan Wellek	Statistical Methods for the Confirmatory Analysis of Equivalence/Noninferiority Studies
	8:30 a.m. – 5:00 p.m.	CE_10C	Jennifer A. Hoeting/Geof H. Givens	Computational Statistics: Methods for Monte Carlo Integration and Optimization
	8:30 a.m. – 5:00 p.m.	CE_11C	Frank E. Harrell, Jr.	Regression Modeling Strategies
	8:30 a.m. – 5:00 p.m.	CE_12C	Bradley P. Carlin/Thomas A. Louis	Hierarchical Bayes Methods and Software for Data Analysis
	8:30 a.m. – 5:00 p.m.	CE_13C	Oliver Schabenberger	Generalized Linear Mixed Models: Theory and Applications
MONDAY, AUGUST 7, 2006				
	8:00 a.m. – noon	CE_14C	Anthony R. Olsen/Donald L. Stevens, Jr.	Spatial Survey Design with a Focus on Natural Resources
	8:00 a.m. – noon	CE_15C	Danyu Lin	Analysis of Multivariate Failure Time Data
★	8:30 a.m. – 5:00 p.m.	CE_16C	Peter H. Westfall	Multiple Comparisons and Multiple Tests
	8:30 a.m. – 5:00 p.m.	CE_17C	Bruce D. Spencer/Juha M. Alho	Statistical Demography with Applications
★	8:30 a.m. – 5:00 p.m.	CE_18C	Christy Chuang-Stein/Alex Dmitrienko/Geert Molenberghs	Analysis of Clinical Trials: Theory and Applications
	8:30 a.m. – 5:00 p.m.	CE_19C	Alan Gelfand/Athanasios Kottas	Applied Bayesian Nonparametric Modeling
	8:30 a.m. – 5:00 p.m.	CE_20C	Sophia Rabe-Hesketh/Anders Skrondal	Generalized Linear and Latent Mixed Models
	1:00 p.m. – 5:00 p.m.	CE_21C	Naomi B. Robbins	Creating More Effective Graphs
TUESDAY, AUGUST 8, 2006				
	8:00 a.m. – noon	CE_23C	Thomas W. O'Gorman	Adaptive Tests of Significance and Confidence Intervals
	8:30 a.m. – 5:00 p.m.	CE_24C	Malay Ghosh/Bhramar Mukherjee/Samiran Sinha	Bayesian Analysis of Case-Control Data
	8:30 a.m. – 5:00 p.m.	CE_25C	Dennis R. Helsel/Lopaka Lee	Analysis of Environmental Data with Nondetects
	8:30 a.m. – 5:00 p.m.	CE_26C	Geert Verbeke/Geert Molenberghs	Models for Discrete Repeated Measures
	8:30 a.m. – 5:00 p.m.	CE_27C	Judith A. Swan	Effective Scientific Writing
	8:30 a.m. – 5:00 p.m.	CE_28C	Scott D. Patterson/Byron Jones	Bioequivalence and Statistics in Clinical Pharmacology
	8:30 a.m. – 5:00 p.m.	CE_29C	Geoff McLachlan/Kim-Anh Do	Methods and Computational Tools for the Screening and Classification of Microarray Gene Expression Data
	1:00 p.m. – 5:00 p.m.	CE_30C	Ingram Olkin	Meta-analysis: Statistical Methods for Combining the Results of Independent Studies

★—**Excellence-in-CE Award**

WEDNESDAY, August 9

FEE: $50 each

Computer Technology Workshops

Computer Technology Workshops *at a glance*

Time	Course	Instructor(s)	Title
8:30 a.m. – 10:15 a.m.	CE_31T	Dongping Fang	Time Series in SPSS: Automatic Model Selection and Outlier Detection
8:30 a.m. – 10:15 a.m.	CE_32T	Michael Borenstein/Hannah R. Rothstein	Meta-analysis: Concepts and Applications
8:30 a.m. – 10:15 a.m.	CE_33T	John Castelloe	Power and Sample Size Analysis Using SAS/STAT Software
10:30 a.m. – 12:15 p.m.	CE_34T	Mikhail Golovnya	Introduction to CART: Data Mining with Decision Trees
10:30 a.m. – 12:15 p.m.	CE_35T	Michael Borenstein	Power Analysis: A Simple and Effective Approach
10:30 a.m. – 12:15 p.m.	CE_36T	Robert Cohen	Modern Regression Analysis in SAS Software
2:00 p.m. – 3:45 p.m.	CE_37T	Mikhail Golovnya	Advances in Data Mining: Jerome Friedman's TreeNet/MART and Leo Breiman's Random Forests
2:00 p.m. – 3:45 p.m.	CE_38T	Cyrus Mehta	East 4: A Comprehensive Package for Adaptive and Group Sequential Design, Interim Monitoring, and Simulation
2:00 p.m. – 3:45 p.m.	CE_39T	Colin (Lin) Chen	Quantile Regression Using the SAS QUANTREG Procedure
4:00 p.m. – 5:45 p.m.	CE_40T	Mikhail Golovnya	Introduction to MARS: Predictive Modeling with Nonlinear Automated Regression Tools
4:00 p.m. – 5:45 p.m.	CE_41T	Shawn Harahush	From Software to Solutions in Statistics and Risk Analysis

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Seattle, WA
August 6–10

Are you nearing graduation and wondering about entry-level jobs?
Are you an experienced statistics professional interested in career information?

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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 Career Placement Service. At the 2005 JSM in Minneapolis, employers listed more than 200 positions for qualified statisticians. The JSM Career Placement Service provided 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—for applicants to review complete job descriptions and contact information for all registered employers.

VISIBILITY TO EMPLOYERS—applicants who register by July 20, 2006, will have their forms and résumés included in the Advance Applicant access database, available to employers prior to the meeting. Employers often contact applicants whose forms are included in the database prior to JSM to schedule interviews.

COMPUTERIZED MESSAGE CENTER—allows applicants and employers to communicate throughout the meeting.

www.amstat.org/meetings/jsm/2006/placement

Organizations Represented at Recent JSM Career Placement Services

Capital One • FDA • Genentech • PPD • Stanford University
GE Consumer Finance • Pacific Northwest National Lab • Eli Lilly

The JSM Career Placement Service offers a full-service recruiting facility, including online registration, private interview booths, and an onsite computerized message center. Each year, hundreds of qualified applicants look to the JSM Career Placement Service to begin or further their careers in statistics. If you are an employer with statistical job openings or a statistician looking for a first or new job, the JSM Career Placement Service is here to help. Please see Page 19 for hours of operation.

JSM 2006 Registered Employers*

Executive Suite Employers

Abbott Vascular
Amgen Inc.
Battelle
Bristol-Myers Squibb
Capital One
Eli Lilly and Company
Food and Drug Administration, CDRH
GE Consumer Finance
GlaxoSmithKline
Google
John Deere Credit
Mayo Clinic
Merck Research Laboratories
National Institute of Standards and Technology
National Opinion Research Center
National Security Agency
Novartis Pharmaceuticals, Inc.
PPD, Inc.
sanofi-aventis
SAS Institute, Inc.
University of Florida, College of Medicine

Registered Employers

Axio Research Acquisition Co., LLC.
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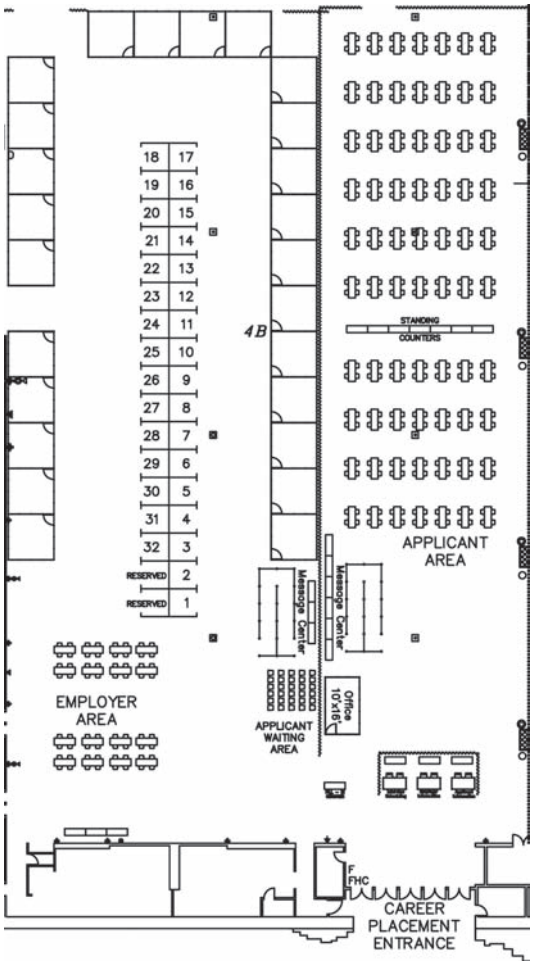
Bureau of Labor Statistics
Clemson University
CSU Fullerton
DuPont Engineering Technology
GE Global Research
Internal Revenue Service
Johnson & Johnson Family of Companies
Kennesaw State University
Lawrence Livermore National Laboratory
LSU School of Public Health
Medical Technology and Practice Patterns Institute
Northwestern University
Organon
Pfizer Global Research and Development
SciMetrika, LLC
Smith Hanley Associates
Smith Hanley Consulting Group
Takeda Global Research and Development Center, Inc.
TAP Pharmaceuticals
Texas Tech University
The Boeing Company
The Cambridge Group, Ltd.
The EMMES Corporation
The University of Texas Health Science Center
U.S. Census Bureau
University of Alberta, School of Business
University of Denver, Daniels College of Business
University of South Florida
Virginia Commonwealth University
W.L. Gore & Associates
Washington University, School of Medicine
Westat



Washington State Convention & Trade Center Exhibit
Hall 4B

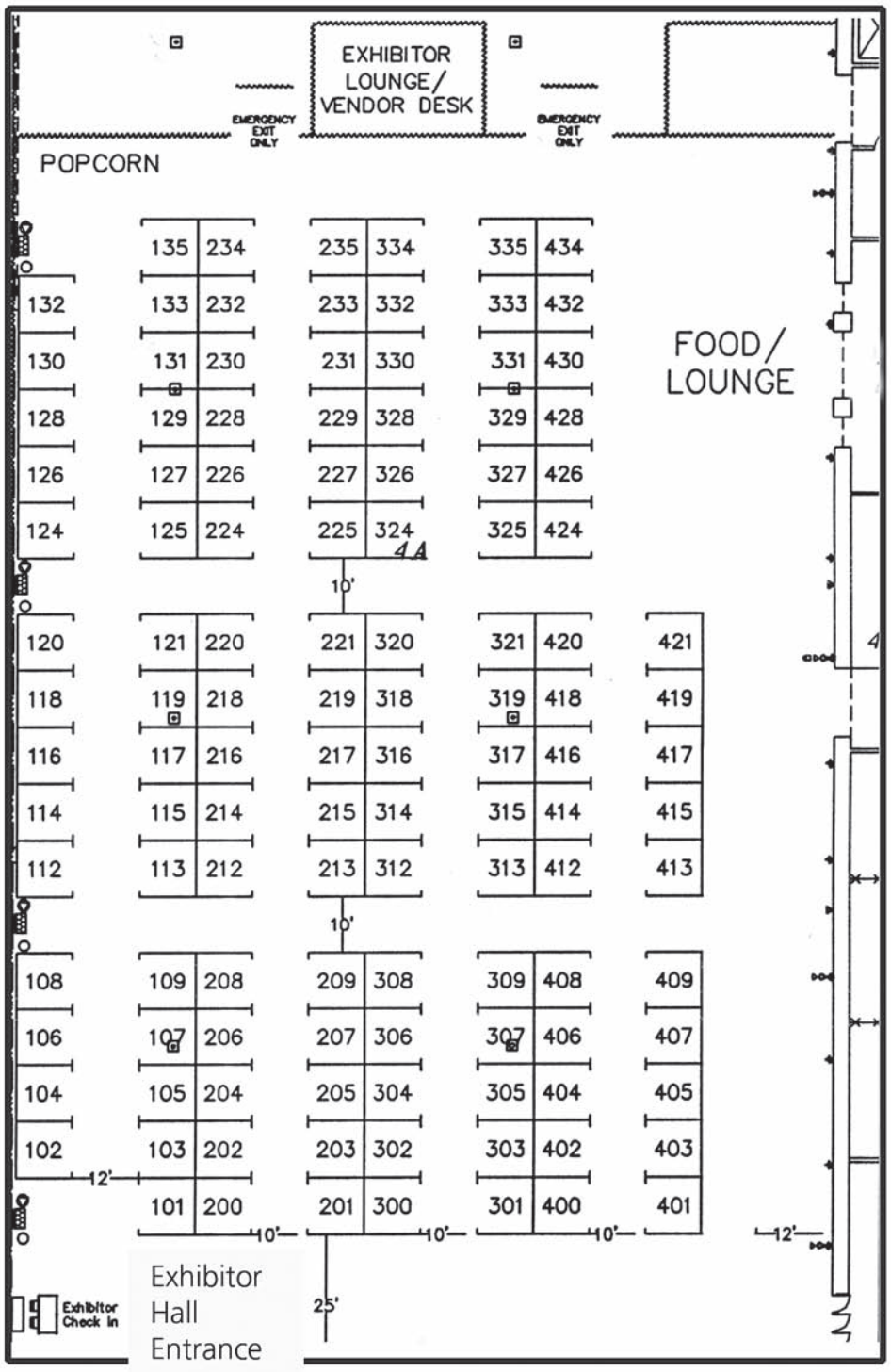
*This list represents employers who registered by the Early Bird deadline of June 29, 2006. Additional employers will be participating onsite.

Listing of Exhibitors by Booth Number

Booth Number	Exhibitor Name
101, 103, 105, 107	American Statistical Association
102	Institute of Mathematical Statistics
104	Statistical Society of Canada
106	SIAM–Society for Industrial & Applied Mathematics
108	ASA-SIAM Series
109	JSM 2007 Salt Lake City
112, 114	Minitab Inc.
113, 115, 117, 119	Springer
116, 118	Salford Systems
120	Bureau of Economic Analysis
121	MacKichan Software
124	National Center for Health Statistics
125	Centers for Disease Control and Prevention
126	Bureau of Labor Statistics
127	Internal Revenue Service (IRS), Statistics of Income Division
128, 130	U.S. Census Bureau
129	U.S. Department of Education
131, 133	National Security Agency
132	U.S. Department of Agriculture, National Agricultural Statistics Service
135	National Death Index, NCHS, CDC
200, 202	JMP
201, 203, 205	SAS Application
204, 206, 208	SAS Publishing
207, 209	SAS Education
212, 214	Cytel Inc.
213	NCSS
215, 217	Duxbury
216	statistics.com
218, 220	Cambridge University Press
219	Hawkes Learning Systems
221	Blackwell Publishing
224	Placemart Personnel Service
225	The Cambridge Group Ltd.
233, 235	Aptech Systems, Inc.
300	W.H. Freeman and Company

Booth Number	Exhibitor Name
301, 303	Statpoint Inc.
302	Visual Numerics, Inc.
304	Capital One
305	Eli Lilly and Company
306, 308	Prentice Hall
307	GE Money - Global Decision Sciences
309, 408	Insightful Corporation
312	SAGE Publications
313, 315	RTI International
314	MedFocus LLC
316	Allergan, Inc.
317, 319, 321, 416, 418, 420	CRC Press - Taylor & Francis Group LLC
318	Stat-Ease, Inc.
320	Smith Hanley
324	Amgen Inc.
325	Systat Software, Inc.
326	ASG, Inc.
327	McGraw-Hill Higher Education
329	Organon, USA
331	Pfizer Global Research and Development
400, 402	Oxford University Press
401, 403	StatSoft, Inc.
404	Mayo Clinical Trial Services
405	Kforce Clinical Research Staffing
406	Amazon.com
407, 409	ELSEVIER
412	Addison-Wesley
413	Palisade Corporation
415, 417	Scientific Computing Associates, Inc. (SCAI)
419	Biostat, Inc.
421	COMSYS
424, 426, 428, 430	Wiley
432, 434	SPSS, Inc.

EXPO 2006 Floor Plan



Washington State Convention & Trade Center—Exhibit Hall 4A

Listing of Exhibitors by Name

Exhibitor Name	Booth Number
ASA-SIAM Series	108
ASG, Inc	326
Addison-Wesley	412
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American Statistical Association	101, 103, 105, 107
Amgen Inc.	324
Aptech Systems, Inc.	233, 235
Biostat, Inc	419
Blackwell Publishing	221
Bureau of Economic Analysis	120
Bureau of Labor Statistics	126
COMSYS	421
CRC Press - Taylor & Francis Group LLC	321, 319, 317, 416, 418, 420
Cambridge University Press	218, 220
Capital One	304
Centers for Disease Control and Prevention	125
Cytel Inc.	212, 214
Duxbury	215, 217
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ELSEVIER	407, 409
GE Money - Global Decision Sciences	307
Hawkes Learning Systems	219
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Exhibitor Name	Booth Number
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SIAM-Society for Industrial & Applied Mathematics	106
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U.S. Department of Education	129
Visual Numerics, Inc.	302
W.H. Freeman & Company	300
Wiley	424, 426, 428, 430

▲—Pinnacle Partner ◆—Diamond Partner ★—Gold Partner ❍—Silver Partner

ASA-SIAM Series 108
Alexandria, Virginia

The ASA-SIAM Series on Statistics and Applied Probability is published jointly by the ASA and the Society for Industrial and Applied Mathematics. The series consists of a spectrum of books on topics in statistics and applied probability and provides inexpensive, quality publications of interest to the intersecting membership of the two societies.

ASG, Inc. 326
Vernon Hills, Illinois

ASG, Inc., is a growing national staffing and functional outsourcing company dedicated to providing experienced professionals to staff positions in clinical research; SAS programming; data management; regulatory affairs; and statistical analysis for customers capturing, analyzing, and producing data in the pharmaceutical, biotech, health care, and financial industries.

Addison-Wesley 412
Upper Saddle River, New Jersey

Stop by, meet our authors, and explore a full display of our statistics titles, including DeVeaux/Velleman/Bock's *Intro Stats (2nd edition)* and *Triola Elementary Statistics (10th edition)* and new texts in biostatistics, probability, and time series. And try out our new and exciting technology, including MyStatLab and ActivStats!

Allergan, Inc. 316
Irvine, California

Allergan is a global specialty pharmaceutical company that develops and commercializes innovative products for eye care, neuromodulator, skin care, and other specialty markets.

Amazon.com 406
Seattle, Washington

Amazon.com Risk Analytics team is at the forefront of risk management at Amazon. The activities of Risk Analytics have a direct impact on Amazon's business through the use of statistical modeling and analysis and data mining to detect and eliminate the ever-increasing risks in the e-commerce marketplace.

American Statistical Association 101, 103, 105, 107
Alexandria, Virginia

Since 1839, the ASA has been the world's leading professional association for statisticians. The ASA serves as a forum for sharing ideas, experiences, innovations, and accomplishments. Members are involved in many areas of statistics, including medicine, computer applications, quality management, analytical research, setting standards for statistics, and promoting statistical education.

❍ **Amgen Inc.** 324
Thousand Oaks, California,

Amgen (NASDAQ: AMGN)—a biotechnology pioneer—discovers, develops, and delivers innovative human therapeutics. Our medicines have helped millions of patients in the fight against cancer, kidney disease, rheumatoid arthritis, and other serious illnesses. With a deep and broad pipeline of potential new medicines, we continue to advance science to serve patients.

Aptech Systems, Inc. 233, 235
Maple Valley, Washington

The GAUSS Mathematical and Statistical System is a fast matrix programming language used widely for solving mathematical and statistical problems. GAUSS is designed for computationally intensive tasks and suits the researcher who lacks time to develop programs in C or FORTRAN, but finds statistical or mathematical packages inflexible.

Biostat, Inc. 419
Englewood, New Jersey

Comprehensive Meta-Analysis is the world's best-selling program for meta-analysis. Sign up for our workshop or visit our booth for a free trial CD—*www.meta-analysis.com*.

Blackwell Publishing 221
Malden, Massachusetts

Blackwell Publishing is a leading international publisher in all areas of statistics, science, technology, and medicine. Please stop by our booth for complimentary copies of our journals. You also may visit our web site at *www.blackwellpublishing.com* for information about all our publications.

Bureau of Economic Analysis 120
Baltimore, Maryland

The BEA promotes a better understanding of the U.S. economy by providing the most timely, relevant, and accurate economic accounts data in an objective and cost-effective way.

Bureau of Labor Statistics 126
Washington, DC

As the principal fact-finding agency for the federal government in the broad field of labor economics and statistics, the BLS provides useful data that pertain to your community. For example, BLS tracks employment, work-related injuries, illnesses and fatalities, the Consumer Price Index, and wages by area and occupational title. We encourage you to visit our booth and ask for our five-minute demonstration on how to access online current and historical BLS data from the database. Our web site is *www.bls.gov*.

COMSYS 421
Portage, Michigan

COMSYS is the leading provider of SAS statistics and clinical services to companies nationwide. We enable statisticians and programmers to support their customers more efficiently through innovative analytical applications and overflow support. COMSYS is a SAS Alliance Gold Partner, with more than 40 offices in the United States and Canada.

CRC Press - Taylor & Francis Group LLC 317, 319, 321, 416, 418, 420
Boca Raton, Florida

Chapman & Hall/CRC (now a part of The 20) Taylor & Francis Group LLC is a premier publisher of books and journals on statistics. Please visit our booth to pick up a journal sample copy and browse through our books that include specials at a 50% discount and all other titles at up to a 25% discount.

❍ **Cambridge University Press** 218, 220
New York, New York

Cambridge's new titles in statistics, biostatistics, econometrics, mathematical finance, and more are available at a 20% discount. New books in the Cambridge Series in Statistical and Probabilistic Mathematics include *Statistical Mechanics of Disordered Systems* by Anton Bovier and *The Coordinate-Free Approach to Linear Models* by Michael J. Wichura.

◆ **Capital One** 304
Richmond, Virginia

Capital One is a Fortune 500 company providing access to credit to tens of millions worldwide. We also provide auto, home, and business loans, plus banking and other services. Statistical expertise is central to our success. Capital One seeks superior applied statisticians at all career stages.

Centers for Disease Control and Prevention 125
Atlanta, Georgia

The Centers for Disease Control and Prevention is one of the 13 major operating components of the Department of Health and Human Services, which is the principal agency in the United States government for protecting the health and safety of all Americans and for providing essential human services.

❍ **Cytel Inc.** 212, 214
Cambridge, Massachusetts

Cytel Inc. provides innovative clinical trial design services and specialized statistical applications. Cytel's East® is used throughout industry, academia, and the FDA for designing, simulating, and monitoring clinical trials. Cytel develops superior tools and services that increase problemsolving efficiencies and reduce development costs.

Duxbury 215, 217
Belmont, California

Visit Duxbury-Thomson Publishers at booths 215 and 217. View our latest publications and technology innovations. With more than 30 years of experience publishing in the field of statistics, Duxbury is the source for complete solutions for all teaching needs, from introductory to advanced statistics courses. Duxbury: a Tradition of Quality and Innovation...

★ **Eli Lilly and Company** 305
Indianapolis, Indiana

Eli Lilly and Company is a leading, innovation-driven corporation committed to developing a growing portfolio of best-in-class and first-in-class pharmaceutical products that help people live longer, healthier, and more active lives.

ELSEVIER 407, 409
New York, New York

Elsevier/Academic Press is a worldwide leader in scientific and technical publishing. Come see our latest titles, including Roussas' *An Introduction to Probability*, Ross' *Introduction to Probability Models (9th edition)*, and Freund/Wilson's *Regression Analysis (2nd edition)*. Pick up instructor copies at up to 30% off in addition to sample journals, including *Statistical Methodology*. Visit *http://books.elsevier.com/apmath*.

GE Money - Global Decision Sciences 307
Stamford, Connecticut

GE Money is a leading provider of credit services to consumers, retailers, and auto dealers in 50 countries. With more than 300,000 employees across 160 countries and the power of $163 billion in assets, we offer flexible working arrangements, a diverse environment, world-class leadership, comprehensive training, and "Fast Track Leadership Programs."

Hawkes Learning Systems 219
Charleston, South Carolina

For 20 years, Hawkes Learning Systems has specialized in math courseware. Our courseware is based on mastery-level learning and offers unlimited practice problems, tutorials, and intelligent feedback. On its own or as a supplement, our courseware improves student performance and provides instructors with an online grade book and state-of-the-art test generator.

Insightful Corporation 309, 408
Seattle, Washington

Insightful Corporation (NASDAQ:IFUL) is a provider of predictive analytics and reporting solutions. Insightful products S-PLUS®, Insightful Miner®, S-PLUS® Server, and InFact® provide companies with the knowledge to act. Insightful consulting services provide specialized expertise and proven processes for the design, development, and deployment of customized solutions.

Institute of Mathematical Statistics 102
Beachwood, Ohio

The Institute of Mathematical Statistics is an international professional society devoted to the development and dissemination of the theory and applications of statistics and probability. Its activities include sponsorship of journals and other scientific publications and organization of scientific meetings.

Internal Revenue Service (IRS), Statistics of Income Division 127
Washington, DC

The Statistics of Income (SOI) Division produces data compiled from tax and information returns filed with the IRS. SOI data about the financial composition of individuals, business taxpayers, tax-exempt organizations, and more are available through publications, electronic databases, Tax Stats (*www.irs.gov/taxstats*), and SOI's Statistical Information Services office, (202) 874-0410.

JMP 200, 202
Cary, North Carolina

Point. Click. Discover. With JMP(r)6, the most recent release of statistical discovery software from SAS, it's that simple to innovate new products, processes, and services—with fewer R&D bottlenecks and reduced time to market. Check us out.

JSM 2007 Salt Lake City 109
Salt Lake City, Utah

Salt Lake City, host of JSM 2007, welcomes you. Please stop by Booth 109 for visitor information and answers to your questions.

Kforce Clinical Research Staffing 405
Tampa, Florida

Kforce provides outsourcing alternatives and traditional staffing services for the bio-pharma industries, including monitoring, clinical trial management, project management, drug safety, data management, SAS programming, biostats, and data entry.

MacKichan Software 121
Poulsbo, Washington

New! Scientific WorkPlace 5.5 simplifies writing, sharing, and doing mathematics. The click of a button allows you to typeset in LaTeX. The integrated computer algebra system lets you solve and plot equations; animate 2D and 3D plots; rotate, move, and fly through 3D plots; create 3D implicit plots; and more.

❍ **Mayo Clinical Trial Services** 404
Rochester, Minnesota

Mayo Clinical Trial Services, a full-service Academic Research Organization (ARO), offers capabilities a CRO cannot match due to Mayo Clinic's medical expertise and academic leadership.

McGraw-Hill Higher Education 327
New York, New York

McGraw-Hill is the leading provider of textbooks and technology applications in higher education and publishes introductory and advanced titles in general statistics and statistics for business and economics, engineering, and social sciences. ALEKS, Homework Manager Plus, Visual Statistics, and MathZone are a few of the technology applications available from McGrawHill.

MedFocus LLC 314
Des Plaines, Illinois

MedFocus offers clinical and scientific research contract outsourcing and staffing to the pharmaceutical, biotechnology, and medical device industries specifically. MedFocus has achieved premier status as a top source of hiring for clinical research.

❍ **Minitab Inc.** 112, 114
State College, Pennsylvania

Minitab®, the leading statistical software package in education, is used around the world by instructors at more than 4,000 colleges, universities, and high schools. Minitab Statistical Software contains all the statistical methods students need and is powerful, reliable, and easy-to-use. For affordable student rental and purchase options, visit e-academy's Minitab Center at *www.e-academy.com/minitab*. For more information, visit *www.minitab.com/education*.

NCSS 213
Kaysville, Utah

NCSS announces the availability of GESS, a new program for the statistical analysis of microarray data. Stop by our booth for a demonstration. We will also demonstrate PASS, our sample size program, and NCSS, our data analysis program.

National Center for Health Statistics 124
Hyattsville, Maryland

The NCHS 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 products.

National Death Index, NCHS, CDC 135
Hyattsville, Maryland

The National Death Index assists researchers in determining whether subjects have died and provides the states and dates of death, death certificate numbers, and cause of death.

❍ National Security Agency 131, 133
Fort Meade, Maryland

The Information Assurance mission provides the solutions, products, and services—and conducts defensive information operations—to achieve information assurance for information infrastructures critical to U.S. national security interests. The foreign signals intelligence, or SIGINT, mission allows for an effective, unified organization and control of all the foreign signals collection and processing activities of the United States.

Organon, USA 329
Roseland, New Jersey

Organon is a global leader in the creation of innovative prescription medicines for women's health, mental health, and anesthesia—products that contribute to the health of people and their quality of life. Organon offers challenging work assignments with a chance to grow and learn on professional and personal levels within a global organization.

❍ Oxford University Press 400, 402
New York, New York

Oxford University Press is the oldest publisher in the English language and known throughout the world for the quality of their publications. A department of Oxford University, OUP publishes more than 4,000 titles and 150 journals a year. Stop by our booth and save 20% on all titles on display.

Palisade Corporation 413
Ithaca, New York

Palisade Corporation has been a leading provider of risk analysis, decision analysis, optimization, and data analysis software since 1984. Recently, Palisade released NeuralTools, a neural networks add-in for Microsoft Excel, and StatTools, a statistical analysis add-in for Microsoft Excel that replaces Excel's statistics functions with a robust and accurate set of statistical analysis procedures and routines.

Pfizer Global Research and Development 331
New York, New York

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.

Placemart Personnel Service 224
Lanoka Harbor, New Jersey

Placemart Personnel Service specializes in executive search services in clinical drug and medical product R&D. For more than 40 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 details, visit *www.placemart.com*.

Prentice Hall 306, 308
Upper Saddle River, New Jersey

Prentice Hall will display statistics textbooks ranging from the introductory level, such as Agresti/Franklin's *Statistics (preliminary edition)* and McClave/ Sincich's *Statistics (10th edition)* to more advanced and specialized course texts, such as Epstein's *Medical Image Processing* and Hogg/Tanis' *Probability and Statistical Inference (7th edition)*.

RTI International 313, 315
Research Triangle Park, North Carolina

For more than 45 years, RTI statisticians have developed and applied scientifically accepted statistical methodologies to address major national and global public policy issues. One tool RTI has developed is the internationally recognized SUDAAN Statistical Software package, which provides various procedures for analyzing survey and other cluster-correlated data.

SAGE Publications 312
Thousand Oaks, California

SAGE Publications—an independent international publisher in the social sciences, technology, and medicine—provides journals, books, and electronic media of the highest caliber. Researchers, students, and professionals have relied on our innovative resources for more than 40 years. Please stop by our booth or visit us at *www.sagepub.com*.

❍ Salford Systems 116, 118
San Diego, California

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 won several distinguished international honors recently.

▲ SAS Application 201, 203, 205
Cary, North Carolina

SAS will exhibit its software for statistics, data mining, econometrics, and statistical quality control. Visit the SAS booth to talk with members of the development staff and learn about current offerings and upcoming software.

▲ SAS Education 207, 209
Cary, North Carolina

SAS' Higher Education Consulting Group provides universities and community colleges with programs and services that can help them incorporate SAS technology into their curriculums. The SAS Certified Professional program helps SAS users validate their knowledge of SAS software with globally recognized credentials. Visit both SAS-sponsored programs at booths 207 and 209.

▲ SAS Publishing 204, 206, 208
Cary, North Carolina

Visit booths 204, 206, and 208 to learn more about saving 20% on orders placed or mailed to us by September 11, new SAS product documentation titles, new SAS Press titles, and SAS® Learning Edition 2.0, SAS® Self-Paced e-Learning. SAS Publishing staff are available to answer any questions and to assist you with your orders. Enjoy the conference!

Scientific Computing Associates, Inc. (SCAI) 415, 417
New Haven, Connecticut

Scientific Computing Associates, Inc. (SCAI) is a leading provider of software and support for open-source and proprietary scripting languages, including R. The R Professional system from SCAI combines high-level scripting (for increased productivity) with high-performance computing to meet dramatically increasing computational demands. R Professional from SCAI provides full commercial support and independent certification.

SIAM–Society for Industrial & Applied Mathematics 106
Philadelphia, Pennsylvania

Visit the SIAM booth to check out titles in the mathematics—ASA-SIAM Series on Statistics and Applied Probability. Browse recently published books and information. See sample issues of SIAM's renowned journals; membership applications will be available. Don't forget to pick up a copy of SIAM News for the road. *www.siam.org*.

Smith Hanley 320
New York, New York

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. Visit *www.smithhanley.com* or *www.smithhanley-consulting.com*.

❍ Springer 113, 115, 117, 119
New York, New York

Springer is one of the most renowned scientific publishing companies in the world. Its publications cover subjects ranging from the natural sciences, mathematics, engineering, and computer science to medicine, humanities, economics, and law. Springer publishes more than 3,400 new books each year and 1,250 journals, most of which are also available in electronic form.

▲ SPSS, Inc. 432, 434
Chicago, Illinois

SPSS is the world's leading provider of predictive analytics software and solutions. Since 1968, SPSS has enabled its customers to improve their performance. Our software helps organizations optimize interactions with their customers and ensure that the actions they are taking today will positively affect their ability to reach tomorrow's goals.

Stat-Ease, Inc. 318
Minneapolis, Minnesota

Stat-Ease, Inc. produces two easy-to-use Windows programs for design of experiments (DOE), including Design-Ease® 7.0 (new!) software for finding breakthrough factors and Design-Expert® 7.0 (new!) software for optimization. The company also offers computer-intensive DOE workshops, including Experiment Design Made Easy, Response Surface Methods for Process Optimization, and Mixture Design for Optimal Formulations.

Statistical Society of Canada 104
Ottawa, Ontario

The Statistical Society of Canada's mission is to encourage the development and use of statistics and probability in Canada. It is the Canadian equivalent of the American Statistical Association. The Statistical Society of Canada also offers two levels of accreditation, the Professional Statistician (P.Stat.) and the Associate Statistician.

statistics.com 216
Arlington, Virginia

XLMiner is a comprehensive data mining add-in for Excel. It offers neural nets, classification and regression trees, naive Bayes, k-nearest neighbors, logistic and linear regression, discriminant analysis, association rules, principal components, k-means and hierarchical clustering, partitioning, over-sampling, missing data handling, and sampling from and scoring to databases. Visit *www.xlminer.com.*

❍ **Statpoint Inc.** 301, 303
Herndon, Virginia

STATGRAPHICS Centurion XV, unmatched statistical software for data analysis, statistical modeling, quality improvement, and Six Sigma. Perform sophisticated data analysis without investing weeks learning a statistical package. Entirely menu-driven, numerous innovative tools—including StatAdvisor, StatWizard, and StatReporter—provide maximum return on investment. STATGRAPHICS Mobile for handheld devices also is available.

StatSoft, Inc. 401, 403
Tulsa, Oklahoma

StatSoft, Inc., creators of STATISTICA, is one of the largest developers of enterprise-wide and single-user software for data analysis, data mining, and quality control worldwide. STATISTICA has received the highest rating in every comparative review of statistics software since its release in 1993—a record unmatched in the industry.

Systat Software, Inc. 325
Richmond, California

Systat Software, Inc., provides specialized scientific software products and services for the environment sciences, life sciences, behavioral sciences, medical research, and engineering. Our products are used by the world's top companies, research centers, and universities and now include SigmaPlot, SigmaStat, SigmaScan, SYSTAT, TableCurve2D, TableCurve3D, PeakFit, and AutoSignal.

The Cambridge Group Ltd. 225
Westport, Connecticut

The Cambridge Group Ltd. focuses on careers in biostatistics, clinical data management, clinical systems, SAS programming, and more. Opportunities range from entry through 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; *biostat@cambridgegroup.com*; (800) 525-3396.

U.S. Census Bureau 128, 130
Washington, DC

The U.S. Census Bureau produces key data about the nation's economic and social health. We produce the Decennial Census each decade, the Economic Census every five years, more than 100 household and business surveys each year, and several monthly surveys that supply data for the nation's economic indicators.

U.S. Department of Agriculture, National Agricultural Statistics Service 132
Washington, DC

The National Agricultural Statistics Service is a world leader in sampling, data collection, and estimation procedures for economic, environmental, and agricultural surveys and censuses. The agency also creates a number of remote sensing and geographic information system statistical products and conducts ongoing applied research on statistical methodology and estimation.

U.S. Department of Education 129
Washington, DC

As the research, evaluation, and statistics-gathering arm of the U.S. Department of Education, the Institute of Education Sciences funds research studies on ways to improve academic achievement, conducts large-scale evaluations of federal education programs, and reports an array of statistics on the condition of education.

Visual Numerics, Inc. 302
San Ramon, California

For decades, Visual Numerics has provided analysis and visualization software to academia on platforms such as C/C++, .NET, Java, and FORTRAN. It delivers tools for conducting research and building curricula for students. The unique combination of the IMSL Libraries, PV-WAVE, and expert professional services is unsurpassed for analytical applications.

W.H. Freeman and Company 300
New York, New York

W.H. Freeman and Company publishes high-quality textbooks and media in statistics and mathematics. Visit Booth 300 to learn more about the new editions of Moore's *The Basic Practice of Statistics* and Moore/Notz's *Statistics: Concepts and Controversies* and the current edition of Moore/McCabe's *Introduction to the Practice of Statistics*. Also on view will be our innovative media, including our new nationally hosted solution for statistics: StatsPortal. For more information, visit *www.whfreeman.com*.

❍ **Wiley** 424, 426, 428, 430
Hoboken, New Jersey

John Wiley & Sons, a leading publisher in statistics, provides numerous print and electronic products, including *Encyclopedia of Statistical Sciences (2nd edition)*, *Applied Regression Modeling*, *Bayesian Models for Categorical Data*, *Bayesian Statistics and Marketing*, *Regression Analysis by Example (4th edition)*, *Statistics in Medicine*, and *Data Mining and Statistics*.

Session Tag Descriptions

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

THEME ✪

JSM Theme sessions are directly relevant to the 2006 JSM theme "Statistics for an Uncertain World: Meeting Global Challenges." These sessions highlight presentations and discussions on the role that is being played by statistical sciences in the protection and development of people around the globe.. 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.

Meeting Rooms

Meeting rooms include "letters" before the name of the room, designating in which facility the room is located:

Washington State Convention & Trade Center = CC

Sheraton Seattle Hotel & Towers = S

Grand Hyatt Seattle = H

THURSDAY, AUGUST 3

Committee/Business Meetings & Other Activities

6:00 p.m.–7:00 p.m. S-Douglas Room
The ASA Management Review Committee (closed)
Chair(s): Sallie Keller-McNulty, Rice University

7:00 p.m.–9:00 p.m. S-Douglas Room
The ASA Board of Directors Executive Committee Working Dinner (closed)
Chair(s): Sallie Keller-McNulty, Rice University

FRIDAY, AUGUST 4

Committee/Business Meetings & Other Activities

7:30 a.m.–8:30 a.m. S-Cedar Room
ASA Board of Directors Breakfast (closed)
Chair(s): Sallie Keller-McNulty, Rice University

8:30 a.m.–10:30 a.m. S-Aspen Room
The ASA Planning Committee (closed)
Chair(s): Sallie Keller-McNulty, Rice University

10:30 a.m.–5:00 p.m. S-Aspen Room
The ASA Board of Directors Meeting (closed)
Chair(s): Sallie Keller-McNulty, Rice University

12:30 p.m.–1:30 p.m. S-Cedar Room
The ASA Board of Directors Lunch (closed)
Chair(s): Sallie Keller-McNulty, Rice University

6:30 p.m.–7:30 p.m. S-Governors Suite
JSM Staff and ASA Board of Directors Reception (closed)
Chair(s): William B. Smith, American Statistical Association; Sallie Keller-McNulty, Rice University

SATURDAY, AUGUST 5

Committee/Business Meetings & Other Activities

7:00 a.m.–6:00 p.m. CC-Level 4 South Lobby
JSM Main Registration
ASA Membership/Special Assistance Desk
Cyber Center

7:00 a.m.–6:00 p.m. CC-507, CC-508
Speaker Work Rooms

7:30 a.m.–8:30 a.m. S-Cedar Room
The ASA Board of Directors Breakfast (closed)
Chair(s): Sallie Keller-McNulty, Rice University

8:00 a.m.–5:00 p.m. CC-Exhibit Hall 4A
Exhibitor Move in and Lounge

8:30 a.m.–5:30 p.m. S-Aspen Room
The ASA Board of Directors Meeting (closed)
Chair(s): Sallie Keller-McNulty, Rice University

8:30 a.m.–10:30 a.m. S-Spruce Room
ASA BOD-2006 Strategic Activities Review Subcommittee (closed)
Chair(s): Nathaniel Schenker, National Center for Health Statistics

8:30 a.m.–10:30 a.m. S-Douglas Room
ASA BOD-2006 Dues Subcommittee (closed)
Chair(s): Daniel Kasprzyk, Mathematica Policy Research, Inc.

9:00 a.m.–5:00 p.m. CC-Level 1
Citywide Concierge Center

9:00 a.m.–5:00 p.m. CC-Exhibit Hall 4B
Career Placement Service (Electronic Registration Only)

11:30 a.m.–12:30 p.m. S-Willow A
Association of GCRC Statisticians Lunch (closed)
Organizer(s): Robert Oster, The University of Alabama at Birmingham

12:15 p.m.–1:00 p.m. S-Cedar Room
The ASA Board of Directors Lunch (closed)
Chair(s): Sallie Keller-McNulty, Rice University

12:00 p.m.–5:00 p.m. CC-Level 4 South Lobby
ASA Marketplace

12:30 p.m.–5:30 p.m. S-Willow B
Association of GCRC Statisticians Meeting (closed)
Organizer(s): Robert Oster, The University of Alabama at Birmingham

3:00 p.m.–6:00 p.m. S-Spruce Room
ICES III Program Committee Meeting (closed)
Chair(s): Eva Elvers, Statistics Sweden

7:00 p.m.–8:30 p.m. S-Cedar Room
National Numeracy Network Board Meeting
Organizer(s): Bernard Madison, University of Arkansas

Continuing Education (Fee Events)

CE_01C CC-310
8:30 a.m.–5:00 p.m.
Categorical Data Analysis (two-day course)
The ASA
Instructor(s): Gary Koch, The University of North Carolina at Chapel Hill; Todd Schwartz, The University of North Carolina at Chapel Hill; Rebekkah Dann, The University of North Carolina at Chapel Hill

CE_02C CC-308
8:30 a.m.–5:00 p.m.
Small-Area Estimation
The ASA, Section on Survey Research Methods
Instructor(s): Partha Lahiri, University of Maryland

CE_03C CC-307
8:30 a.m.–5:00 p.m.
Modern Approaches to Nonstationary Models of Spatial and Space-Time Processes with Air Quality Applications
The ASA
Instructor(s): Peter Guttorp, University of Washington; Paul D. Sampson, University of Washington

CE_04C CC-306
8:30 a.m.–5:00 p.m.
Bayesian Inference
The ASA, Section on Bayesian Statistical Science
Instructor(s): Bruno Sanso, University of California, Santa Cruz

CE_05C CC-304
8:30 a.m.–5:00 p.m.
Practical Data Mining
The ASA
Instructor(s): Richard De Veaux, Williams College

CE_06C CC-303
8:30 a.m.–5:00 p.m.
Applied Longitudinal Analysis
The ASA, Biometrics Section
Instructor(s): Garrett Fitzmaurice, Harvard University

SUNDAY, AUGUST 6

Tours

9:30 a.m.–1:30 p.m. CC-Convention Place
TR01 - Northwest Winery Tour (fee event)

1:00 p.m.–4:00 p.m. CC-Convention Place
TR02 - Seattle City Highlights Tour (fee event)

Committee/Business Meetings & Other Activities

7:00 a.m.–8:00 a.m. S-Willow A
Association of GCRC Statisticians Breakfast (closed)
Organizer(s): Robert Oster, The University of Alabama at Birmingham

7:00 a.m.–6:00 p.m. CC-507, CC-508
Speaker Work Rooms

7:00 a.m.–8:30 p.m. CC-Level 4 South Lobby
JSM Main Registration
ASA Membership/Special Assistance Desk

7:00 a.m.–10:00 p.m. CC-Level 4 South Lobby
Cyber Center

7:30 a.m.–10:30 a.m. S-Douglas Room
Committee on Women in Statistics (closed)
Chair(s): Teri Peterson, Idaho State University

7:30 a.m.–12:30 p.m. H-Blewett Suite
Committee on Publications Meeting (closed)
Chair(s): William Q. Meeker, Jr., Iowa State University

8:00 a.m.–10:00 a.m. S-Juniper
Business Statistics Focus Group (closed)
Organizer(s): Dona Kenly, Addison Wesley

8:00 a.m.–11:00 a.m. CC-Exhibit Hall 4A
Exhibitor Move in

8:00 a.m.–12:00 p.m. S-Willow B
Association of GCRC Statisticians Meeting (closed)
Organizer(s): Robert Oster, The University of Alabama at Birmingham

8:00 a.m.–12:00 p.m. CC-302
ICES III Organizing Committee Meeting (closed)
Chair(s): Howard Hogan, U.S. Census Bureau

8:00 a.m.–6:00 p.m. CC-209
Amgen Inc. Interview Room (by invitation only)
Organizer(s): Chander Varma, Amgen Inc.

8:00 a.m.–6:00 p.m. CC-Exhibit Hall 4A
Exhibitor Lounge

9:00 a.m.–12:00 p.m. S-Cedar Room
Council of Sections Governing Board Meeting (closed)
Chair(s): John E. Boyer, Kansas State University

9:00 a.m.–1:00 p.m. CC-301
Advisory Committee on Teacher Enhancement Annual Meeting (closed)
Chair(s): Robert Gould, University of California, Los Angeles

9:00 a.m.–5:00 p.m. CC-Level 1
Citywide Concierge Center

9:00 a.m.–5:00 p.m. CC-Level 4 South Lobby
ASA Marketplace

11:00 a.m.–2:00 p.m. CC-4C-1
NISS/SAMSI Affiliates Meeting (closed)
Organizer(s): Alan Karr, National Institute of Statistical Sciences

11:30 a.m.–1:00 p.m. S-Douglas Room
Committee on Committees Meeting (closed)
Chair(s): Darryl Downing, GlaxoSmithKline

12:00 p.m.–1:00 p.m. S-Willow A
Association of GCRC Statisticians Lunch (closed)
Organizer(s): Robert Oster, The University of Alabama at Birmingham

12:00 p.m.–1:30 p.m. H-Portland
Amgen Inc. (closed)
Organizer(s): Chander Varma, Amgen Inc.

12:00 p.m.–1:30 p.m. CC-601
Friends of the Indian Statistical Institute Business Meeting
Organizer(s): Nitis Mukhopadhyay, University of Connecticut

12:00 p.m.–2:00 p.m. S-Juniper
***Journal of Statistics Education* Editorial Board (closed)**
Chair(s): W. Robert Stephenson, Iowa State University

12:00 p.m.–2:00 p.m. S-Aspen Room
***Statistica Sinica* Board Meeting (closed)**
Organizer(s): Michelle Liou, Academia Sinica; Xiao-Li Meng, Harvard University

1:00 p.m.–6:00 p.m. CC-Exhibit Hall 4A
EXPO 2006
ASA Communities Booth #101

1:00 p.m.–6:00 p.m. CC-Exhibit Hall 4B
Career Placement Service (Full Placement Service Open)

2:00 p.m.–4:30 p.m. S-Willow Ballroom
Council of Sections Annual Business Meeting (closed)
Chair(s): John E. Boyer, Kansas State University

4:00 p.m.–5:30 p.m. S-Douglas Room
2006/2007 Committee Chairs Meeting (closed)
Chair(s): Darryl Downing, GlaxoSmithKline

4:00 p.m.–6:00 p.m. H-Stevens Boardroom & Foyer
Career Development Seminar - Snakes and Ladders: Building a Career in Statistics
Chair(s): Janice Lent, Research and Innovative Technology Administration

4:30 p.m.–8:00 p.m. H-Chatham
ENAR Executive Committee Meeting (by invitation only)
Organizer(s): Kathy Hoskins, ENAR

5:00 p.m.–6:00 p.m. CC-303
Volunteer Work in Statistics: The Second Year
Chair(s): Fritz Scheuren, National Opinion Research Center

5:00 p.m.–6:30 p.m. CC-305
Cancer Center Biostatistics Directors Annual Meeting
Organizer(s): Terry Hyslop, Thomas Jefferson University

5:00 p.m.–6:30 p.m. S-Cedar Room
Council of Section New Officer Orientation Meeting (closed)
Chair(s): S. Lynne Stokes, Southern Methodist University

5:00 p.m.–7:30 p.m. H-Blewett Suite
International Chinese Statistical Association (ICSA) Board Meeting (closed)
Organizer(s): Ivan Chan, Merck & Co., Inc.

5:30 p.m.–7:00 p.m. CC-302
Committee on Scientific Freedom and Human Rights Business Meeting
Chair(s): Susan Hinkins, National Opinion Research Center

6:00 p.m.–7:30 p.m. CC-4C-2
JSM First-Time Attendee Orientation and Reception
Chair(s): Mary W. Gray, American University

6:00 p.m.–7:30 p.m. CC-612
ASA Open Meeting (all welcome)
Chair(s): Sallie Keller-McNulty, Rice University

6:00 p.m.–7:30 p.m. S-Aspen Room
Christian Statisticians' Informal Discussion
Organizer(s): Robert W. Mee, University of Tennessee

6:30 p.m.–8:00 p.m. S-Douglas Room
Committee on Privacy and Confidentiality (closed)
Chair(s): Kim McGuigan, Pfizer, Inc.

6:30 p.m.–8:00 p.m. CC-4C-3
Purdue University Alumni and Friends Reception
Organizer(s): Dana Neary, Director of Alumni Relations

6:30 p.m.–8:30 p.m. off property
Section on Statistical Consulting Executive Committee Meeting (closed)
Chair(s): Philip Dixon, Iowa State University

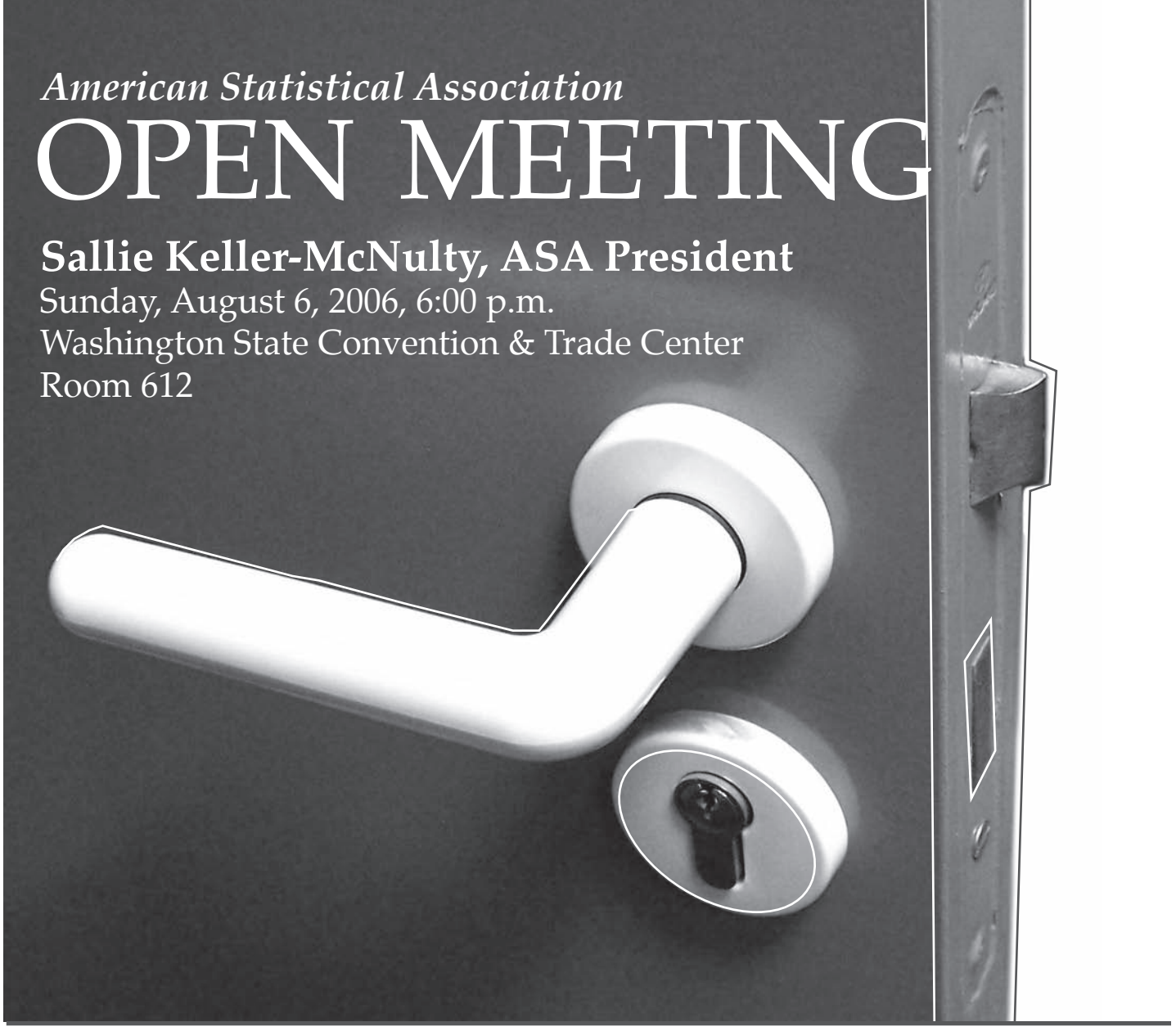
6:30 p.m.–9:30 p.m. H-Douglas Boardroom & Foyer
Biometrics Section Executive Committee Meeting (closed)
Chair(s): Karen Bandeen-Roche, The Johns Hopkins Bloomberg School of Public Health

American Statistical Association

OPEN MEETING

Sallie Keller-McNulty, ASA President

Sunday, August 6, 2006, 6:00 p.m.
Washington State Convention & Trade Center
Room 612



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:

- 2006 State of the Association – *Sallie Keller-McNulty*
- Update on finances – *Sastry G. Pantula*
- Status of the ASA building – *William B. Smith*
- Summary of 2005 Board task forces – *Fritz J. Scheuren*
- Responses to 2005 Open Meeting questions – *Executive Committee*
- Reports on 2006 task forces (public policy, security, and interaction with other groups)

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

7:00 p.m.–8:00 p.m. CC-4C-1
ACCE Presenters' Social (closed)
Chair(s): Charles Tan, Merck & Co., Inc.

7:00 p.m.–9:00 p.m. CC-615
Isolated Statisticians Meeting
Organizer(s): Ann Cannon, Cornell College

8:00 p.m.–10:30 p.m. CC-Ballroom 6ABC
JSM Opening Mixer (included in registration fee)

Continuing Education (Fee Events)

CE_01C CC-310
8:30 a.m.–5:00 p.m.
Categorical Data Analysis (two-day course)
The ASA
Instructor(s): Gary Koch, The University of North Carolina at Chapel Hill; Todd Schwartz, The University of North Carolina at Chapel Hill; Rebekkah Dann, The University of North Carolina at Chapel Hill

CE_07C CC-309
8:30 a.m.–5:00 p.m.
Text Mining
The ASA, Section on Statistical Computing
Instructor(s): David Madigan, Rutgers University; David D. Lewis, David D. Lewis Consulting LLC

CE_08C CC-305
8:30 a.m.–5:00 a.m.
The Psychology of Survey Response
The ASA, Section on Survey Research Methods
Instructor(s): Roger Tourangeau, University of Maryland

CE_09C CC-307
8:30 a.m.–5:00 p.m.
Statistical Methods for the Confirmatory Analysis of Equivalence/Noninferiority Studies
The ASA
Instructor(s): Stefan Wellek, University of Heidelberg

CE_10C CC-306
8:30 a.m.–5:00 p.m.
Computational Statistics: Methods for Monte Carlo Integration and Optimization
The ASA, Section on Statistical Computing
Instructor(s): Jennifer A. Hoeting, Colorado State University; Geof H. Givens, Colorado State University

CE_11C CC-308
8:30 a.m.–5:00 p.m.
Regression Modeling Strategies
The ASA
Instructor(s): Frank E. Harrell, Jr., Vanderbilt University School of Medicine

CE_12C CC-304
8:30 a.m.–5:00 p.m.
Hierarchical Bayes Methods and Software for Data Analysis
The ASA, Section on Bayesian Statistical Science
Instructor(s): Bradley P. Carlin, University of Minnesota; Thomas A. Louis, The Johns Hopkins University

CE_13C CC-303
8:30 a.m.–5:00 p.m.
Generalized Linear Mixed Models: Theory and Applications
The ASA
Instructor(s): Oliver Schabenberger, SAS Institute, Inc.

Special Presentation 2:00 p.m.–3:50 p.m.

1 **CC-4C-4**
Introductory Overview Lectures: Genetic Association Studies—Other
The ASA, ENAR, IMS, SSC, WNAR
Organizer(s): Jianwen Cai, The University of North Carolina at Chapel Hill
Chair(s): Barry I. Graubard, National Cancer Institute

2:05 p.m. **Association Mapping of Human Disease Genes—**❖Bruce S. Weir, University of Washington

2:55 p.m. **Statistical Analysis of Haplotype-Disease Association—**❖Danyu Lin, The University of North Carolina at Chapel Hill

3:45 p.m. **Floor Discussion**

Invited Sessions 2:00 p.m.–3:50 p.m.

2 **CC-206**
Seasonal Time Series—Invited
Business and Economics Statistics Section
Organizer(s): Stuart Scott, Bureau of Labor Statistics
Chair(s): Brian C. Monsell, U.S. Census Bureau

2:05 p.m. **Comparing MSEs for Finite X-11 and Model-Based Seasonal Adjustment Filters—**❖William R. Bell, U.S. Census Bureau; Yea-Jane Chu, SPSS Inc.; George C. Tiao, The University of Chicago

You are invited to the JSM

FIRST-TIME ATTENDEE

orientation and reception

Washington State Convention & Trade Center, Room 4C-2
Sunday, August 6
6:00 p.m.–7:30 p.m.

OPEN TO ALL

(Dinner groups will form after the reception.)

Learn more about how to get the most out of your 1st JSM experience, meet new people, and network.

AGENDA

- **Introduction:** Mary Gray, President, The Caucus for Women in Statistics
- **"Networking for Fun and Profit"** Monica Jackson, American University
- **Reception** *(light hors d'oeuvres to be served)*

This reception is sponsored by: ASA, ENAR, IMS, SSC, WNAR, The Caucus for Women in Statistics

2:30 p.m. **A Spectral Approach for Locally Assessing Model Misspecification**—Tucker S. McElroy, U.S. Census Bureau; ❖Scott Holan, University of Missouri-Columbia

2:55 p.m. **Nonlinear Seasonal Adjustment in Unobserved Components Models**—❖Siem Jan Koopman, Vrije Universiteit Amsterdam; Kai Ming Lee, Vrije Universiteit Amsterdam

3:20 p.m. Disc: Xichuan Zhang, Australian Bureau of Statistics

3:40 p.m. **Floor Discussion**

3 CC-615

● ✪ Recent Advances in the Design and Analysis of Clinical Trials—Invited

WNAR, Biometrics Section, ENAR

Organizer(s): Lurdes Y. T. Inoue, University of Washington

Chair(s): Kenneth Rice, University of Washington

2:05 p.m. **A Bayesian Seamless Design**—❖Lurdes Y. T. Inoue, University of Washington

2:30 p.m. **A Geometric Approach to Comparing Treatments for Rapidly Fatal Diseases**—❖Peter F. Thall, M. D. Anderson Cancer Center; Leiko H. Wooten, M. D. Anderson Cancer Center; Elizabeth J. Shpall, M. D. Anderson Cancer Center

2:55 p.m. **Advances in Simple Phase I Trials: Three Examples**—❖Rick Chappell, University of Wisconsin-Madison

3:20 p.m. **Decision Analysis and Clinical Trial Design**—❖Donald Berry, The University of Texas

3:45 p.m. **Floor Discussion**

4 CC-609

Rapid Production of Small-Area Estimates Using the Behavioral Risk Factor Surveillance System—Invited

Section on Survey Research Methods, Section on Health Policy Statistics

Organizer(s): Paul S. Levy, RTI International

Chair(s): Babubhat V. Shah, SAFAL Institute Inc.

2:05 p.m. **Rapid Response Health Surveillance and the Utility of Small-Area Estimates: Responding to the 2004–05 Influenza Vaccine Shortage**—❖Michael W. Link, Centers for Disease Control and Prevention; Ali H. Mokdad, Centers for Disease Control and Prevention

2:30 p.m. **Development of Methodology for Production of Rapidly Available, County-Level, Small-Area Estimates To Monitor the Course of Influenza Vaccine Coverage**—❖Haomiao Jia, Mercer University School of Medicine; Michael W. Link, Centers for Disease Control and Prevention; Ali H. Mokdad, Centers for Disease Control and Prevention; James Holt, Centers for Disease Control and Prevention; Lei Li, RTI International; Paul S. Levy, RTI International

2:55 p.m. **Evaluating the Small-Area Estimates of the 2004–05 County-Level Influenza Vaccination Rates**—❖Lei Li, RTI International; Paul S. Levy, RTI International; Akhil Vaish, RTI International; Michael W. Link, Centers for Disease Control and Prevention; Ali H. Mokdad, Centers for Disease Control and Prevention; Lina Balluz, Centers for Disease Control and Prevention; Haomiao Jia, Mercer University School of Medicine

3:20 p.m. Disc: Tapabrata Maiti, Iowa State University

3:40 p.m. **Floor Discussion**

5 CC-3A

✪ Pipeline Issues in Recruiting Federal Statisticians—Invited

Committee on Membership Retention and Recruitment, Section on Statistical Education, Committee on Career Development

Organizer(s): David Banks, Duke University

Chair(s): Dayanand Naik, Old Dominion University

2:05 p.m. **JPSM: 14 Years of Training Federal Statisticians**—❖Richard Valliant, University of Michigan; Roger Tourangeau, University of Maryland

2:30 p.m. **Gulliver Tied down by Red Tape? The Federal Government's Challenges as an Employer of Statisticians**—❖Janice Lent, Research and Innovative Technology Administration

2:55 p.m. **Federal Statisticians in the Physical and Engineering Sciences**—❖William Guthrie, National Institute of Standards and Technology

3:20 p.m. Disc: David Marker, Westat

3:40 p.m. **Floor Discussion**

6 CC-3B

✪ Surveillance Geoinformatics and Hotspot Dynamics for Prediction, Policy, and Management—Invited

Environmental and Ecological Statistics, Section on Statistics and the Environment

Organizer(s): Ganapati P. Patil, The Pennsylvania State University

Chair(s): Ganapati P. Patil, The Pennsylvania State University

2:05 p.m. **Spatiotemporal Geoinformatic Disease Surveillance—**❖Stephen L. Rathbun, University of Georgia; Ganapati P. Patil, The Pennsylvania State University

2:30 p.m. **Crime Mapping and Hotspot Detection—**❖Reza Modarres, The George Washington University; Ganapati P. Patil, The Pennsylvania State University

2:55 p.m. **Applications of Hotspot Detection Analysis to Large-Scale Plant Disease Forecasting: Case Study of Fusarium Head Blight—**❖Murali Haran, The Pennsylvania State University

3:20 p.m. Disc: Bo Ranneby, Swedish University of Agricultural Sciences

3:40 p.m. **Floor Discussion**

7 CC-400

● Density-Based Clustering—Invited

Section on Statistical Computing, Section on Statistical Graphics, Section on Nonparametric Statistics

Organizer(s): David W. Scott, Rice University

Chair(s): Michael W. Trosset, The College of William & Mary

2:05 p.m. **Variable Bandwidth Mode Testing—**❖Michael C. Minnotte, Utah State University

2:30 p.m. **Generalized Single-Linkage Clustering—**❖Werner Stuetzle, University of Washington; Rebecca Nugent, University of Washington

2:55 p.m. **Mixture Model Building for High-Dimensional and Functional Data—**❖Catherine Loader, The University of Auckland; Ramani S. Pilla, Case Western Reserve University

3:20 p.m. Disc: David W. Scott, Rice University

3:40 p.m. **Floor Discussion**

8 CC-614

● Statistical Methods for Oral Health Research—Invited

ENAR, Biometrics Section, WNAR

Organizer(s): Jason Roy, University of Rochester

Chair(s): Julie Stoner, University of Nebraska Medical Center

2:05 p.m. **Analysis of Correlated Dental Data: Challenges and Recent Developments—**❖Brian G. Leroux, University of Washington

2:30 p.m. **Finding the Right Pair of Genes: Adding a Genetic Component to Existing Oral Health Studies—**❖Deborah V. Dawson, The University of Iowa

2:55 p.m. **A Flexible Model for Recurrent Event Outcomes in Oral Health—**❖Elizabeth H. Slate, Medical University of South Carolina; Edsel A. Pena, University of South Carolina

3:20 p.m. **Statistical Approaches for Dealing with Missing Tooth- and Surface-Level Data in Caries Research—**❖Jason Roy, University of Rochester

3:45 p.m. **Floor Discussion**

9 CC-620

● Empirical Likelihood-Based Semiparametric Inference—Invited

Biometrics Section, Section on Nonparametric Statistics

Organizer(s): Hua Liang, University of Rochester Medical Center

Chair(s): Xiaogang (Steven) Wang, York University

2:05 p.m. **Empirical Likelihood-Based Inference for Comparison of Two Populations with Censored Data—**❖Hua Liang, University of Rochester Medical Center

2:30 p.m. **Empirical Likelihood-Based Inferences for Receiver Operating Characteristic Curves in the Presence of Verification Bias—**❖Jing Qin, National Institute of Allergy and Infectious Diseases

2:55 p.m. **Empirical Likelihood for Accelerated Failure Time Model—**❖Mai Zhou, University of Kentucky

3:20 p.m. **Nonparametric Imputation of Missing Values for Estimating Equation-Based Empirical Likelihood Inference—**Song X. Chen, Iowa State University; ❖Dong Wang, University of Nebraska

3:45 p.m. **Floor Discussion**

10 CC-203

● New Directions in Bayesian Joint Modeling of Longitudinal and Survival Data—Invited

Section on Bayesian Statistical Science, Biometrics Section, WNAR, ENAR

Organizer(s): Timothy Hanson, University of Minnesota

Chair(s): Timothy Hanson, University of Minnesota

2:05 p.m. **A Flexible B-Spline Model for Multiple Longitudinal Biomarkers and Survival—**❖Elizabeth Brown, University of Washington

2:35 p.m. **Extensions of the Standard Joint Model—**❖Jeremy M. G. Taylor, University of Michigan

3:05 p.m. **Bayesian Semiparametric Methods for Joint Modeling of Longitudinal and Survival Data—**❖Adam Branscum, University of Kentucky; Timothy Hanson, University of Minnesota; Wesley O. Johnson, University of California, Irvine

3:35 p.m. **Floor Discussion**

11 CC-604

Modern Monte Carlo Methods for Statistical Inference—Invited

IMS, Section on Bayesian Statistical Science, Section on Nonparametric Statistics

Organizer(s): Anthony Brockwell, Carnegie Mellon University

Chair(s): Arnaud Doucet, The University of British Columbia

2:05 p.m. **An Overview of SMC and Adaptive MCMC—**❖Anthony Brockwell, Carnegie Mellon University

2:35 p.m. **Simulated Tempering Made Easy—**❖Yves Atchade, University of Ottawa

3:05 p.m. **Adaptive Monte Carlo Computing Methods—**❖Christophe Andrieu, University of Bristol

3:35 p.m. **Floor Discussion**

Topic-Contributed Sessions 2:00 p.m.–3:50 p.m.

12 CC-606

Advances in Item Response Theory—Topic-Contributed

Social Statistics Section

Organizer(s): Sandip Sinharay, Educational Testing Service

Chair(s): Guowen Sun, sanofi-aventis

2:05 p.m. **Limited Information Goodness-of-Fit Testing in Multidimensional Contingency Tables—**❖Harry Joe, The University of British Columbia

2:25 p.m. **Sensitivity of Latent Trait Analysis to Highly Skewed Ability Distributions—**❖David Dailey, Woodcock-Munoz Foundation; Elena Erosheva, University of Washington

2:45 p.m. **Checking the Appropriateness of the Statistical Model Used in National Assessment of Educational Progress—**❖Sandip Sinharay, Educational Testing Service

3:05 p.m. **Improve Variance Estimation for the Assessments Based on the Plausible Values Approach—**❖Jiahe Qian, Educational Testing Service; Shelby Haberman, Educational Testing Service

3:25 p.m. **Estimation of Measurement Errors at Observed and Scaled Scores—**❖Michelle Liou, Academia Sinica; Philip E. Cheng, Academia Sinica

3:45 p.m. **Floor Discussion**

13 CC-619

● Bayesian Modeling of Biomedical Data—Topic-Contributed

Biometrics Section, Section on Bayesian Statistical Science, WNAR, ENAR

Organizer(s): W. John Boscardin, University of California, Los Angeles

Chair(s): Joseph W. Hogan, Brown University

2:05 p.m. **Analysis of Longitudinal Clinical Trial Data with Informative Dropout—**❖Xiaohong Yan, University of California, Los Angeles; W. John Boscardin, University of California, Los Angeles

2:25 p.m. **Bayesian Approach to Multiple Changepoint with Application to HIV Immunologic Responses—**❖Pulak Ghosh, Georgia State University; Kaushik Ghosh, New Jersey Institute of Technology; Ram Tiwari, National Institutes of Health

2:45 p.m. **Bayesian Model Checking for a Longitudinal Binary Variable—**❖Catherine Crespi, University of California, Los Angeles; W. John Boscardin, University of California, Los Angeles; William G. Cumberland, University of California, Los Angeles

3:05 p.m. **Modeling Multivariate Biomedical Data with Polynomial Smoothing Splines—**❖Hector Lemus, University of California, Los Angeles; W. John Boscardin, University of California, Los Angeles

3:25 p.m. **Real-Time Learning for Heterogeneous Multivariate Longitudinal Data—**❖W. John Boscardin, University of California, Los Angeles; Hector Lemus, University of California, Los Angeles

3:45 p.m. **Floor Discussion**

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14 CC-401

● Planning Medical Device Studies—Topic-Contributed

Biopharmaceutical Section, Biometrics Section, ENAR

Organizer(s): Philip Lavin, Averion Inc.; Greg Campbell, U.S. Food and Drug Administration

Chair(s): Greg Campbell, U.S. Food and Drug Administration

2:05 p.m. **Statistical Myths in the Design and Analysis of Clinical Trials**—❖Victor Hasselblad, Duke University

2:25 p.m. **New Medical Device? When Clinical Data Are Needed for a New Medical Device**—❖Jeng Mah, American Medical Systems Inc.

2:45 p.m. **Statistical Review Quality Assessment for Therapeutic PMA Submissions**—❖Lilly Yue, U.S. Food and Drug Administration

3:05 p.m. **What Device Pivotal Studies Have in Common: Recurring Themes in Study Planning**—❖Philip Lavin, Averion Inc.

3:25 p.m. **Floor Discussion**

15 CC-204

Bayesian Student Paper Competition II—Topic-Contributed

Section on Bayesian Statistical Science

Organizer(s): Steven N. MacEachern, The Ohio State University

Chair(s): Steven L. Scott, University of Southern California

2:05 p.m. **Statistical Inference for Nonlinear Models Involving Ordinary Differential Equations**—❖Lovely Goyal, North Carolina State University; Sujit Ghosh, North Carolina State University

2:25 p.m. **Weighted Model-Based Clustering for Remote Sensing Image Analysis**—❖Joseph Richards, Carnegie Mellon University; Johanna Hardin, Pomona College

2:45 p.m. **On Bayesian Analysis of Generalized Linear Models Using Jacobian Technique**—❖Sourish Das, University of Connecticut; Dipak Dey, University of Connecticut

3:05 p.m. **Using Incompatibility To Build Fast Gibbs Samplers**—❖Taeyoung Park, Harvard University; David A. van Dyk, University of California, Irvine

3:25 p.m. **Improving Classification When a Class Hierarchy Is Available Using a Hierarchy-Based Prior**—❖Babak Shahbaba, University of Toronto; Radford Neal, University of Toronto

3:45 p.m. **Floor Discussion**

16 CC-602

● ✪ IT Process Monitoring and Planning—Topic-Contributed

Section on Physical and Engineering Sciences

Organizer(s): Yasuo Amemiya, IBM T. J. Watson Research Center

Chair(s): Yasuo Amemiya, IBM T. J. Watson Research Center

2:05 p.m. **Fourier Domain Estimation for Network Tomography**—❖Jin Cao, Bell Labs, Lucent Technologies; Aiyou Chen, Bell Labs, Lucent Technologies; Tian Bu, Bell Labs, Lucent Technologies

2:25 p.m. **Robust Estimation for Zero-Inflated Longitudinal Data with Application to IT System Monitoring**—❖Jing Shen, University of Georgia/IBM; Daniel Hall, University of Georgia

2:45 p.m. **Some Statistical Problems in Capacity Management and Planning for on-Demand Computing Services**—❖Ta-Hsin Li, IBM T. J. Watson Research Center

3:05 p.m. **Modeling Multivariate Time Series with Application to Software Defects Data**—❖Mihaela Serban, Carnegie Mellon University; Wanli Min, IBM T. J. Watson Research Center

3:25 p.m. **Improving Service Delivery Process**—❖Wen-Hua Ju, Avaya Labs Research; Lorraine Denby, Avaya Labs Research; James M. Landwehr, Avaya Labs Research

3:45 p.m. **Floor Discussion**

17 CC-201

● Statistical and Quantitative Literacy 2006—Topic-Contributed

Section on Statistical Education, Section on Teaching Statistics in the Health Sciences

Organizer(s): Milo Schield, Augsburg College

Chair(s): Jerry Moreno, John Carroll University

2:05 p.m. **Increasing Quantitative Literacy through the Mathematics across the Community College Curriculum Project**—❖Rebecca Hartzler, Seattle Central Community College; Kim Rheinlander, Dartmouth College

2:25 p.m. **Quirks of Rhetoric: a Quantitative Analysis of Quantitative Reasoning in Student Writing**—❖Neil Lutsky, Carleton College; Scott Bierman, Carleton College

2:45 p.m. **Common Misconceptions in Statistical Literacy**—❖Marc Isaacson, Augsburg College

3:05 p.m. **Statistical Literacy: Graphs, Studies, and Related Confounders**—❖Milo Schield, Augsburg College

3:25 p.m. **Pedagogical Challenges of Quantitative Literacy**—❖Bernard Madison, University of Arkansas

3:45 p.m. **Floor Discussion**

18 CC-205

✪ SAMSI Program on National Defense and Homeland Security: 2005–2006—Topic-Contributed

Section on Statisticians in Defense and National Security

Organizer(s): Michael Last, National Institute of Statistical Sciences

Chair(s): Michael Last, National Institute of Statistical Sciences

2:05 p.m. **A Study of Data Swapping for Categorical Variables**—❖Lisa R. Denogean, SAMSI

2:25 p.m. **Anomaly Detection**—❖Francisco Vera, National Institute of Statistical Sciences

2:45 p.m. **New Measures of Data Utility**—❖Mi-Ja Woo, National Institute of Statistical Sciences

3:05 p.m. **Agent-Based Methods for Dynamic Social Networks**—❖Eric Vance, Duke University; David Banks, Duke University

3:25 p.m. Disc: Alan Karr, National Institute of Statistical Sciences

3:45 p.m. **Floor Discussion**

19 CC-613

● ✪ Estimation Techniques for Diagnostics Devices—Topic-Contributed

Section on Statistics in Epidemiology, Biometrics Section, Section on Physical and Engineering Sciences

Organizer(s): Roseann White, Guidant Corporation

Chair(s): David Snead, CORDIS

2:05 p.m. **Evaluation of a Noninvasive Diagnostic Device Using Weighted Least Squares Approach**—❖Zhen Huang, Duke Clinical Research Institute; Huiman Barnhart, Duke University

2:25 p.m. **System Accuracy Requirements for Blood Glucose Monitors**—❖Nancy Schatz, Home Diagnostics, Inc.

2:45 p.m. **Bayesian Predictive Probability as a Diagnostic Assessment of the Likelihood of Coronary Artery Disease in Collateral Arteries**—❖Laura Thompson, U.S. Food and Drug Administration

3:05 p.m. **Disease Diagnosis Maximizing Effectiveness and Minimizing Cost of Health Care**—❖Jeffrey Vaks, Beckman Coulter, Inc.

3:25 p.m. **Use of Frequency Domain Measures Instead of Traditional Summary Statistics for Use in Diagnostic Devices**—❖Roseann White, Guidant Corporation

3:45 p.m. **Floor Discussion**

Regular Contributed Sessions 2:00 p.m.–3:50 p.m.

20 CC-607

Types of Modes and Effects on Response Rates and Performance—Contributed

Social Statistics Section

Chair(s): Kristin Stettler, U.S. Census Bureau

2:05 p.m. **A Repeated Measures Design To Investigate Mode Effects in the Center for Epidemiologic Studies Depression Scale**—❖Richard Swartz, M. D. Anderson Cancer Center; Carl de Moor, Harvard Medical School; Karon Cook, University of Washington; Rachel T. Fouladi, Simon Fraser University; Karen Basen-Engquist, M. D. Anderson Cancer Center; Cathy Eng, M. D. Anderson Cancer Center

2:20 p.m. **Making Item Selection More Efficient in Computerized Adaptive Testing**—❖Hua-Hua Chang, University of Illinois; Zhiliang Ying, Columbia University

2:35 p.m. **Floor Discussion**

21 CC-618

Functional Data Analysis, Supervised Learning, and Dimension Reduction—Contributed

Biometrics Section, Section on Nonparametric Statistics, ENAR

Chair(s): Carsten Botts, Williams College

2:05 p.m. **Functional Regression Analysis for Longitudinal Data with a Large Number of Repeated Measures**—❖Xiaowei Yang, University of California, Davis; Hongquan Xu, University of California, Los Angeles; Qing Shen, Edmunds.com

2:20 p.m. **Self-Modeling Regression with Application to Arterial Pulse Pressure Waveforms**—❖Lyndia Brumback, University of Washington; Doug

Tommet, University of Washington; Richard Kronmal, University of Washington

2:35 p.m. **Classification and Gene Selection of Cancer Micro-Arrays by nu-Ridge Regression—**❖Jun Luo, Michigan State University

2:50 p.m. **Boosting with Missing Predictors—**❖Ching-Yun Wang, Fred Hutchinson Cancer Research Center; Ziding Feng, Fred Hutchinson Cancer Research Center

3:05 p.m. **Prediction Based on Two-Stage Modeling—** Amita K. Manatunga, Emory University; ❖Jose N. G. Binongo, Emory University; Ming Yuan, Georgia Institute of Technology

3:20 p.m. **Steps Toward Individualized Treatment: a Double Supervised Machine-Leaning Method—**❖Steven Y. Cen, University of Southern California; Catherine Sugar, University of Southern California; Bryan Langholz, Keck School of Medicine of USC; David Conti, University of Southern California; Doug Stahl, City of Hope National Medical Center; Stanley P. Azen, University of Southern California

3:35 p.m. **On Reducing Multiple Outcomes into a Single Score—**❖Hui Xie, Boston University

22 CC-617
● Regression for Censored Data—Contributed

Biometrics Section, ENAR

Chair(s): Debajyoti Sinha, Medical University of South Carolina

2:05 p.m. **Regression Analysis for Long-Term Survival Rate—**❖Yichuan Zhao, Georgia State University

2:20 p.m. **Accelerated Failure Time Model with Random Effects—**❖Yaqin Wang, Iowa State University; Kenneth Koehler, Iowa State University

2:35 p.m. **Penalized Weighted Least Squares Method for Accelerated Failure Time Models with Gene Expression Data—**❖Simin Hu, Case Western Reserve University; J. S. Rao, Case Western Reserve University

2:50 p.m. **On Linear Regression under the Partial Koziol-Green Model of Random Censorship—**❖Ke Wu, California State University, Fresno

3:05 p.m. **Inference for Interval-Censored Data with Different Censoring Patterns among Treatment Groups—**❖Guozhi Gao, Amgen Inc.; Xiang Zhang, Amgen Inc.; Steven Snapinn, Amgen Inc.; Qi Jiang, Amgen Inc.

3:20 p.m. **Additive Hazards Model for Case-2 Interval-Censored Failure Time Data—**❖Lianming Wang, University of Missouri-Columbia; Jianguo Sun, University of Missouri-Columbia; Xingwei Tong, University of Missouri-Columbia

3:35 p.m. **Statistical Analysis of Multivariate Failure Time Data with Auxiliary Covariates—**❖Zhaozhi Fan, Memorial University of Newfoundland

23 CC-616
● Normalization and Analysis of Microarrays—Contributed

Biometrics Section, ENAR

Chair(s): Dean Billheimer, Vanderbilt University

2:05 p.m. **Two Extensions of the TW-SLM for Systematically Incorporating Control Genes and Spot Quality Information To Improve Normalization of cDNA Microarray Data—**❖Deli Wang, The University of Alabama at Birmingham; Cun-Hui Zhang, Rutgers University; Marcelo B. Soares, Northwestern University; Jian Huang, The University of Iowa

2:20 p.m. **Using Cytogenetics Data To Guide the Normalization of SNP Microarray Signals—**❖Stanley Pounds, St. Jude Children's Research Hospital; Cheng Cheng, St. Jude Children's Research Hospital; Charles Mullighan, St. Jude Children's Research Hospital; Salil Goorha, St. Jude Children's Research Hospital; Sheila Shurtleff, St. Jude Children's Research Hospital; Susana C. Raimondi, St. Jude Children's Research Hospital; James R. Downing, St. Jude Children's Research Hospital

2:35 p.m. **Category Analysis for Microarray Data—**❖Zhen Jiang, Fred Hutchinson Cancer Research Center; Robert Gentleman, Fred Hutchinson Cancer Research Center

2:50 p.m. **Probe-Level Modeling and Multiple Testing of Microarray Gene Expression—**❖Tao Wang, University of South Florida; Magali Mouy, deCODE genetics; Jason Hsu, The Ohio State University; Hakon Hakonarson, deCODE genetics; Kari Stefansson, deCODE genetics

3:05 p.m. **Application of Temporal Association Rules to a cDNA Microarray Experiment—**❖Bruce Southey, University of Illinois; Sandra Rodriguez-Zas, University of Illinois; Younhee Ko, University of Illinois; Chengxiang Zhai, University of Illinois

3:20 p.m. **Quantitative Association Rules Applied to the Analysis of cDNA Microarray Experiments—**❖Younhee Ko, University of Illinois; Bruce Southey, University of Illinois; Chengxiang Zhai, University of Illinois; Sandra Rodriguez-Zas, University of Illinois

3:35 p.m. **Strategies for Genome-Wide Family-Based Association Analysis for the Study of Integrative Genomics—**❖James Degnan, Harvard University; Jessica Su, Harvard University; Cliona Molony, Rosetta Inpharmatics LLC; Eric Schadt, Rosetta Inpharmatics LLC/Merck Research Laboratories; Benjamin Raby, Harvard University; Christoph Lange, Harvard School of Public Health

24 CC-2A

● Pharmacokinetics and Crossover Trials—Contributed

Biopharmaceutical Section, Biometrics Section, ENAR

Chair(s): Jie Chen, Merck Research Laboratories

2:05 p.m. **Assessing PK-AE Relationships Using Nonlinear Models—**❖Haiyuan Zhu, Merck Research Laboratories

2:20 p.m. **Applications of Adapted Crossover Designs To Reduce Study Cost and Length in Phase I Clinical Trials—**❖Fang Liu, Merck Research Laboratories

2:35 p.m. **Analysis of Replicated Crossover Designs for Average Bioequivalence—**❖Donna Kowalski, Astellas Pharma Inc.; Devan V. Mehrotra, Merck Research Laboratories

2:50 p.m. **Assessing Treatment Differences Adjusted by Possible Carryover Effects in Crossover Clinical Trials—**❖Ling Chen, U.S. Food and Drug Administration

3:05 p.m. **Factorial Crossover Designs with Fewer Periods and Fewer Subjects—**❖Sourav Santra, Northern Illinois University

3:20 p.m. **Locally D-Optimal Designs for Pharmacokinetics Compartmental Models—**❖Xin Fang, University of Illinois at Chicago

3:35 p.m. **The Hypothesis Testing behind Steady State Determination in Clinical Pharmacology Trials—**❖Bingming Yi, Merck & Co., Inc.; Xun Chen, sanofi-aventis; Patrick Larson, Merck & Co., Inc.

25 CC-2B

● Multiple Trials and Multiple Endpoints—Contributed

Biopharmaceutical Section, Biometrics Section, ENAR

Chair(s): Shuguang Huang, Eli Lilly and Company

2:05 p.m. **Analysis of a Composite Endpoint with Missing Data in Components—**❖Hui Quan, sanofi-aventis; Daowen Zhang, sanofi-aventis; Ji Zhang, sanofi-aventis; Laure Devlamynck, sanofi-aventis

2:20 p.m. **A Multivariate Median-Based Robust Procedure To Analyze Multiple Endpoints—**❖Kao-Tai Tsai, Organon; Harji Patel, Georgia Southern University

2:35 p.m. **On O'Brien's OLS and GLS Tests for Multiple Endpoints—**❖Sergei Leonov, GlaxoSmithKline; James Roger, GlaxoSmithKline; Nigel Dallow, GlaxoSmithKline

2:50 p.m. **Tree-Structured Gatekeeping Procedures in Clinical Trials with Multiple Objectives—**❖Alex Dmitrienko, Eli Lilly and Company; Brian L. Wiens, Myogen, Inc.; Ajit C. Tamhane, Northwestern University; Xin Wang, Northwestern University

3:05 p.m. **Control of Overall Type I Error in Clinical Trials with Both Surrogate and Final Endpoints—**❖Chung-Kuei Chang, Cephalon, Inc.

3:20 p.m. **Monitoring Futility in Two-by-Two Factorial Studies—**❖Leslie A. McClure, The University of Alabama at Birmingham; Christopher S. Coffey, The University of Alabama at Birmingham; George Howard, The University of Alabama at Birmingham

3:35 p.m. **Floor Discussion**

26 CC-210

● Mortgages and Auctions—Contributed

Business and Economics Statistics Section

Chair(s): J. Keith Ord, Georgetown University

2:05 p.m. **Loss and Prepayment Modeling in the Context of Subprime Mortgage Loans—**Deniz Senturk, GE Global Research; ❖Huaiyu Ma, GE Global Research; Greg Ratkovsky, WMC

2:20 p.m. **Credit Rating Transition of U.S. Corporate Bonds—**❖Weijian Liang, New York University; Halina Frydman, New York University; Stephen Figlewski, New York University

2:35 p.m. **Credit Risk Ananlysis for Taiwan Electronic Industrial**—❖Yi-Kuan Jong, St. John's University

2:50 p.m. **Statistical Validation of a Credit Risk Model**—❖Lydian Medema, University of Groningen

3:05 p.m. **A Semiparametric Investigation of the Effect of Reserve Prices on Selling Prices Using Identical Auctioned Items from eBay**—❖Dawit Zerom, University of Alberta; Peter Popkowski Leszczyc, University of Alberta

3:20 p.m. **A Statistical Approach to Controlling Sniping in Electronic Auctions**—❖Dawn Porter, Georgetown University; J. Keith Ord, Georgetown University

3:35 p.m. **A New Model for Forecasting Credit Spread Changes: Model Estimation, Prediction, and Inference Procedures**—❖Yang Wang, The Pennsylvania State University

27 CC-213
Software—Contributed

Section on Statistical Computing

Chair(s): Morteza Marzjarani, Saginaw Valley State University

2:05 p.m. **The Carapace Environment**—❖Gary Oehlert, University of Minnesota

2:20 p.m. **Enterprise Automatons with R**—❖Zubin Dowlaty, InterContinental Hotels Group; Dean Mao, InterContinental Hotels Group; Simon Urbanek, AT&T Labs-Research

2:35 p.m. **Estimation and Inference in Parametric Stochastic Frontier Models: a SAS/IML Procedure for a Maximum Likelihood Bootstrap Method**—❖Sylvie Tchumtchoua, University of Connecticut

2:50 p.m. **A New Program for Computing Percentage Points for Pearson Distributions**—❖Wei Pan, University of Cincinnati; Haiyan Bai, University of Cincinnati

3:05 p.m. **Statistical Inference Package (SIP)**—❖Esa Uusipaikka, University of Turku

3:20 p.m. **Floor Discussion**

28 CC-214
Testing—Contributed

Section on Statistical Computing

Chair(s): Faming Liang, Texas A&M University

2:05 p.m. **Testing the Equality of Two Normally Distributed Populations**—❖Charles Dunn, Miami University

2:20 p.m. **Generation of the Distribution of the Test for a Latin Square Design with Heterogeneous Variances**—❖Miin-Jye Wen, National Cheng Kung University; Hubert Chen, National Cheng Kung University

2:35 p.m. **On Testing the Bioequivalence of Several Treatments Using the Measure of Distance**—❖Hubert Chen, National Cheng Kung University; Miin-Jye Wen, National Cheng Kung University

2:50 p.m. **An Exact Test for Testing the Equality of Parameter Matrices in Two Multivariate Linear Models**—❖Jinadasa K. Gamage, Illinois State University; Malwane M. A. Ananda, University of Nevada, Las Vegas

3:05 p.m. **Performance of Robust and Nonrobust Roy-Bargmann Stepdown Follow-up to a Significant MANOVA under a Variety of Conditions: a Simulation Study**—❖Holmes Finch, Ball State University

3:20 p.m. **Comparisons of Sets of Multivariate Time Series**—❖Jaydip Mukhopadhyay, University of Connecticut; Nalini Ravishanker, University of Connecticut; Jonathan Hosking, IBM Research

3:35 p.m. **Iterated BH Procedure**—❖Nasrine Bendjilali, Lehigh University; Wei-Min Huang, Lehigh University

29 CC-603
Likelihood-Based Inference—Contributed

IMS

Chair(s): Siobhan Everson-Stewart, University of Washington

2:05 p.m. **Testing of Rate Ratio under Inverse Sampling**—❖Hon Keung T. Ng, Southern Methodist University; Man Lai Tang, Hong Kong Baptist University; Yijie Liao, Hong Kong Baptist University; Ping Shing Chan, The Chinese University of Hong Kong

2:20 p.m. **A Bivariate Interval Censorship Model for Partnership Formation**—❖Qiqing Yu, Binghamton University; Linda Wong, Binghamton University

2:35 p.m. **The Likelihood Ratio Test of Mixture Hypotheses and the Tube Volume Problem**—❖Yong Lin, University of Medicine & Dentistry of New Jersey; Bruce G. Lindsay, The Pennsylvania State University

2:50 p.m. **On Hinkley's Estimator: Inference about the Change-Point**—❖Stergios B. Fotopoulos, Washington State University; Venkata Jandhyala, Washington State University

3:05 p.m. **Conditional Properties of a Parametric Bootstrap**—❖Russell Zaretzki, University of Tennessee

3:20 p.m. **Summarizing and Interpreting Likelihood Functions as Functions**—❖Michael Brimacombe, University of Medicine & Dentistry of New Jersey; Bo Peng, University of Medicine & Dentistry of New Jersey

3:35 p.m. **Testing for and against a Set of Linear Inequality Constraints in the Product Multinomial Setting**—❖Hammou Elbarmi, Baruch College

30 CC-211
Bayesian Biomedical Modeling—Contributed

Section on Bayesian Statistical Science, Biometrics Section, WNAR, ENAR

Chair(s): Edwin S. Iversen, Jr., Duke University

2:05 p.m. **Monitoring Event Times in Early-Phase Clinical Trials: Practical Issues**—❖Leiko H. Wooten, M. D. Anderson Cancer Center; Peter F. Thall, M. D. Anderson Cancer Center; Nizar M. Tannir, M. D. Anderson Cancer Center

2:20 p.m. **Modeling Long-Term HIV Dynamics: a Bayesian Approach**—❖Dacheng Liu, Boehringer Ingelheim; Hulin Wu, University of Rochester; Yangxin Huang Huang, University of South Florida

2:35 p.m. **Prior Structures for Surrogate Endpoint Validation Using PTE**—❖Chunyao Feng, Baylor University; John W. Seaman, Baylor University; Stacy Lindborg, Eli Lilly and Company

2:50 p.m. **A Bayesian Multivariate PK/PD Model for Analyzing Cortisol Circadian Rhythm in a Depression Study**—❖Niko Kaciroti, University of Michigan; Trivellore E. Raghunathan, University of Michigan; Delia Vazquez, University of Michigan

3:05 p.m. **Bayesian Modeling of Correlated Binary Data from the Cryotherapy for Retinopathy of Prematurity (CRYO-ROP) Study**—❖Claudia Pedroza, The University of Texas School of Public Health; Betty Tung, The University of Texas School of Public Health

3:20 p.m. **Bayesian Analysis of Age-Adjusted Cancer Rates Using Joinpoint Regression Model**—❖Ram Tiwari, National Institutes of Health; Pulak Ghosh, Georgia State University

3:35 p.m. **Bayesian Modeling of Noncompliance in Folic Acid Dosing Studies**—❖Owen Devine, Centers for Disease Control and Prevention

31 CC-605
Consumer Prices and Expenditures—Contributed

Section on Government Statistics

Chair(s): Alan R.Tupek, U.S. Census Bureau

2:05 p.m. **A Micro-Level Latent Class Analysis of Underreporting on the Consumer Expenditure Survey**—❖Brian Meekins, Bureau of Labor Statistics; Clyde Tucker, Bureau of Labor Statistics; Paul Biemer, RTI International

2:20 p.m. **The Use of Geocoding to Locate Outlets Outside of Sample Area Boundaries to Determine Significant Areas of Commerce**—❖John Schilp, Bureau of Labor Statistics; Fred Marsh, III, Bureau of Labor Statistics

2:35 p.m. **Internet Portals and Outlet Selection Issues in the Consumer Price Index**—❖Charles Mason, Bureau of Labor Statistics; Roberta Sangster, Bureau of Labor Statistics; Madeleine Saxton, Bureau of Labor Statistics

2:50 p.m. **A Spatial Analysis of Price Change in CPI Housing Index**—❖William Larson, Bureau of Labor Statistics

3:05 p.m. **Comparison of Chained CPI-U and Regular CPI-U All-U.S. Indexes in the Housing Sector (2000–2004)**—❖Owen Shoemaker, Bureau of Labor Statistics

3:20 p.m. **Comparison between Newly Proposed Response Rates and Current Response Rates for the TPOP Survey**—❖Fred Marsh, III, Bureau of Labor Statistics

3:35 p.m. **Effect of Computer-Assisted Personal Interviews in the U.S. Consumer Expenditure Interview Survey**—❖Moon Jung Cho, Bureau of Labor Statistics; Carolyn Pickering, Bureau of Labor Statistics

32 CC-612
● Applications for Modeling Health Survey Data—Contributed

Section on Health Policy Statistics

Chair(s): David Blough, University of Washington

2:05 p.m. **Modeling of Longitudinal Polytomous Outcomes from Complex Survey Data**—❖Punam Pahwa, University of Saskatchewan; Chandima

Karunanayake, University of Saskatchewan; Helen H. McDuffie, University of Saskatchewan

2:20 p.m. **Statistical Modeling of Longitudinal Mental Distress among the National Population Health Survey Participants: Missing Data Analysis—**❖Chandima Karunanayake, University of Saskatchewan; Punam Pahwa, University of Saskatchewan; Helen H. McDuffie, University of Saskatchewan

2:35 p.m. **A Two-Phase Model To Study the Health Care–Seeking Behaviors for Common Cold of People in Taiwan—**❖Hsing-Yi Chang, National Health Research Institutes; Yu-Wen Wen, National Health Research Institutes

2:50 p.m. **Alcohol Disorders and Employment Stability: a Longitudinal Study—**❖Richard Bryant, University of Missouri-Rolla; V. A. R. Samaranayake, University of Missouri-Rolla

3:05 p.m. **Significance Analysis of Physician Photo Identification Cards Trial—**❖Ye-Ying Cen, Hennepin County Medical Center; Jennings Ryan Staley, United States Air Force; Baolin Wu, University of Minnesota; Scott F. Davies, Hennepin County Medical Center

3:20 p.m. **Development, Scaling, and Implementation of a Patient Satisfaction Inventory for Organ Transplant Candidates and Recipients—**❖Irene Feurer, Vanderbilt University Medical Center; Hongxia Liu, Vanderbilt University School of Nursing; Panarut Wisawatapnimit, Vanderbilt University School of Nursing; C. Wright Pinson, Vanderbilt University Medical Center

3:35 p.m. **Factor Analysis with Categorical Data: a Methodological Illustration with the GAZA Child Health Survey Data—**❖Dongguang Li, National Cancer Institute of Canada; John D. Pringle, Queen's University; Julio Arboleda-Florez, Queen's University; Heather Stuart, Queen's University

33 CC-212

● Nonparametric Approaches to Regression and Spatial Modeling—Contributed

Section on Nonparametric Statistics

Chair(s): Huiping Jiang, Columbia University

2:05 p.m. **Regression Model-Fitting with Long Memory—** ❖Hongwen Guo, Michigan State University; Hira L. Koul, Michigan State University

2:20 p.m. **Multivariate Theil-Sen Estimators—** ❖Xin Dang, University of Mississippi; Hanxiang Peng, University of Mississippi; Xueqin Wang, Yale University School of Medicine

2:35 p.m. **A Goodness-of-Fit Test for Parametric Regression Models When Some Covariates Are Missing—** ❖Lei Jin, Texas A&M University; Suojin Wang, Texas A&M University

2:50 p.m. **Estimating Prediction Error in Linear Regression by Cross-Validation—** ❖Hui Shen, The University of British Columbia; William J. Welch, The University of British Columbia

3:05 p.m. **On Nonparametric Smoothing Methods for Assessing Climate Change—** ❖Patricia Menendez Galvan, Swiss Federal Research Institute WSL/ETHZ; Sucharita Ghosh, Swiss Federal Research Institute WSL

3:20 p.m. **Evaluation of Spatial Normalization Parameters for SPM: Application to Type 2 Diabetes Data—** ❖Bedda Rosario, University of Pittsburgh; Scott Ziolko, University of Pittsburgh; Lisa Weissfeld, University of Pittsburgh; Julie Price, University of Pittsburgh

3:35 p.m. **Statistical Methods for Proportional Hazards Regression with Missing Covariates—** ❖Lihong Qi, University of California, Davis; Ching-Yun Wang, Fred Hutchinson Cancer Research Center; Ross Prentice, Fred Hutchinson Cancer Research Center

34 CC-601

Optimal Experimental Design—Contributed

Section on Physical and Engineering Sciences

Chair(s): Cheryl Dingus, Battelle Memorial Institute

2:05 p.m. **A Catalog of Nonisomorphic Indicator Functions—** ❖Shao-Wei Cheng, Academia Sinica; Chien-Yu Peng, Academia Sinica

2:20 p.m. **Certain Orthogonal Arrays with Generalized Minimum Aberration—** ❖Aijun Zhang, University of Michigan

2:35 p.m. **Optimal Fold-over Designs for Three-Level Fractional Factorial Designs—** ❖Hong Zhou, University of Memphis; Manohar L. Aggarwal, University of Memphis; Lih Yuan Deng, University of Memphis; Dennis K. J. Lin, The Pennsylvania State University

2:50 p.m. **(M,S)-Optimality in Selecting Factorial Designs—** ❖Xianggui Qu, Oakland University; Robert Kushler, Oakland University; Theophilus Ogunyemi, Oakland University

3:05 p.m. **Algorithms for Generating Experimental Designs for Irregularly Shaped Regions—** ❖Greg Piepel, Battelle-PNNL; Nam-Ky Nguyen, University of New England

3:20 p.m. **Orthogonal-Maximin Latin Hypercube Designs—** ❖Ying Hung, Georgia Institute of Technology; Roshan J. Vengazhiyil, Georgia Institute of Technology

3:35 p.m. **Optimal Design of an Ion Trapping Experiment—** ❖Kevin Coakley, National Institute of Standards and Technology

35 CC-611

● ✪ Causal Models and Causal Effects—Contributed

Section on Statistics in Epidemiology, Biometrics Section, ENAR

Chair(s): Abdus Wahed, University of Pittsburgh

2:05 p.m. **On Informative Detection Bias in Screening Studies—** ❖Arvid Sjölander, Karolinska Institutet; Juni Palmgren, Karolinska Institutet

2:20 p.m. **Estimating a Class of Causal Treatment Effect for Survival Data—** ❖Jing Ning, The Johns Hopkins University; Mei-Cheng Wang, The Johns Hopkins University; Zhiqiang Tan, The Johns Hopkins University

2:35 p.m. **Path Analysis for Ordinal Variables—** ❖Haihong Li, University of Florida; P. V. Rao, University of Florida

2:50 p.m. **Approaches to Obtaining Standard Errors for Parameter Estimates in Latent Class Analysis—** ❖David M. Thompson, The University of Oklahoma

3:05 p.m. **An Application of Multivariate Path Models and the Calculus of Coefficients to Describe Effects of Health Behaviors on the Metabolic Syndrome—** ❖Youngju Pak, University at Buffalo; Randy L. Carter, University at Buffalo

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3:20 p.m. **Signed Directed Acyclic Graphs for Causal Inference—**❖Tyler J. VanderWeele, Harvard School of Public Health; James Robins, Harvard School of Public Health

3:35 p.m. **Floor Discussion**

36 CC-608
● Unit Nonresponse in Surveys I—Contributed

Section on Survey Research Methods

Chair(s): Karol Krotki, RTI International

2:05 p.m. **Nonresponse to a Computer-Assisted Self-Interviewing (CASI) Module—**❖Mick Couper, University of Michigan; Eleanor Singer, University of Michigan; John Van Hoewyk, University of Michigan

2:20 p.m. **Assessing the Effectiveness of Weighting Cell Adjustments for Longitudinal Nonresponse—**❖Leroy Bailey, U.S. Census Bureau

2:35 p.m. **Sample Reweighting To Reflect an Initial Population—**❖Julia Bienias, Rush University Medical Center; Phillip S. Kott, National Agricultural Statistics Service; Todd L. Beck, Rush University Medical Center; Denis A. Evans, Rush University Medical Center

2:50 p.m. **Approaches to Nonresponse Bias Analysis in an Adult Literacy Survey—**❖Wendy Van de Kerckhove, Westat; Thomas Krenzke, Westat; Leyla Mohadjer, Westat

3:05 p.m. **An Application of Propensity Modeling To Adjust Weights for Nonresponse: Effectiveness of Restricting Variables and Propensity Values—**❖Frank Potter, Mathematica Policy Research, Inc.; Nuria Diaz-Tena, Mathematica Policy Research, Inc.; Stephen R. Williams, Mathematica Policy Research, Inc.

3:20 p.m. **Adjusting for Nonignorable Missing Data with Nonignorable Sampling Design in Longitudinal Sample Survey—**❖Moh Yin Chang, University of Nebraska-Lincoln

3:35 p.m. **Estimated Response Propensities as a Means To Evaluate Error Effects Due to Nonresponse—**❖Leela Aertker, The University of North Carolina at Chapel Hill; William D. Kalsbeek, The University of North Carolina at Chapel Hill

37 CC-610
● Estimation and Confidentiality—Contributed

Section on Survey Research Methods, Section on Health Policy Statistics

Chair(s): Andrew A. White, Institute of Education Sciences

2:05 p.m. **Disclosure Avoidance for the 2007 ACS PUMS: a Model-Based Approach for Group-Quarters Data—**❖Rolando Rodriguez, U.S. Census Bureau

2:20 p.m. **Reporting to Payers, Regulators, and Managers: Issues and Experiences with Confidentiality and Compliance—**❖Richard Carlson, Medica

2:35 p.m. **The Change-of-Variance Function in Generalized Linear Mixed-Effect Models with Applications to Poisson-Gamma and Beta-Binomial Models—**❖Gabriela Cohen-Freue, The University of British Columbia

2:50 p.m. **A Bridge between the Greg and the Linear Regression Estimators—**❖Sarjinder Singh, St. Cloud State University; Raghunath Arnab, University of Botswana

3:05 p.m. **A Generalized Forced Quantitative Randomized Response Model—**❖Oluseun Odumade, St. Cloud State University; Sarjinder Singh, St. Cloud State University

3:20 p.m. **Global and Hierarchical Linear Regression in Two-Stage Sampling—**❖Dhirendra Ghosh, Synectics for Management Decisions, Inc.; Andrew Vogt, Georgetown University

3:35 p.m. **Confidentiality in Survey Data: the Lack of Consistent Standards—**❖M. Leeann Habte, University of California, Los Angeles; Hongjian Yu, University of California, Los Angeles; Jenny Chia, University of California, Los Angeles; Brandon Traudt, University of California, Los Angeles

Special Presentation 4:00 p.m.–5:50 p.m.

38 CC-4C-4
Introductory Overview Lectures: Adaptive Designs/Interim Pilots and Regression Trees—Other

The ASA, ENAR, IMS, SPAIG Committee, WNAR

Organizer(s): Lisa M. LaVange, The University of North Carolina at Chapel Hill

Chair(s): Lisa M. LaVange, The University of North Carolina at Chapel Hill

4:05 p.m. **Regression Trees—**❖Wei-Yin Loh, University of Wisconsin-Madison

4:55 p.m. **Adaptive and Internal Pilot Designs—**❖Christopher S. Coffey, The University of Alabama at Birmingham

5:45 p.m. **Floor Discussion**

Invited Sessions 4:00 p.m.–5:50 p.m.

39 CC-401

Statistics in Biotechnology around the Puget Sound—Invited

ASA, Puget Sound Chapter, Section on Statistical Graphics

Organizer(s): Bruce Peterson, Terastat

Chair(s): Tim C. Hesterberg, Insightful Corporation

4:05 p.m. **Reference Samples and Other Low-Level Choices for the Design and Analysis of Two-Color Microarray Experiments—**❖Kathleen Kerr, University of Washington

4:35 p.m. **Graphs and Networks in Computational Biology—**❖Robert Gentleman, Fred Hutchinson Cancer Research Center

5:05 p.m. **Statistical Methods for Integrating High-Dimensional Genotype, Molecular Profiling, and Clinical Data To Elucidate Human Disease—**❖Eric Schadt, Rosetta Inpharmatics LLC/Merck Research Laboratories

5:35 p.m. **Floor Discussion**

40 CC-400

Statistical Issues in Genetic Association Studies—Invited

General Methodology, Biometrics Section, ENAR

Organizer(s): Danyu Lin, The University of North Carolina at Chapel Hill

Chair(s): Daniel Schaid, Mayo Clinic College of Medicine

4:05 p.m. **Family Studies in the Age of Association—**❖Nan M. Laird, Harvard School of Public Health

4:30 p.m. **Hybrid Vigor: Family-Based and Population-Based Designs Can Work Together—**❖Clarice R. Weinberg, National Institute of Environmental Health Sciences; David M. Umbach, National Institute of Environmental Health Sciences

4:55 p.m. **Analysis of Complex Pathways in Molecular Epidemiology—**❖Duncan C. Thomas, University of Southern California

5:20 p.m. Disc: David Clayton, University of Cambridge

5:40 p.m. **Floor Discussion**

41 CC-203

● ✪ Statistical Effect Assessment of Environmental Exposure—Invited

ENAR, Biometrics Section, WNAR, Section on Statistics and the Environment

Organizer(s): Li-Shan Huang, University of Rochester

Chair(s): Christopher Cox, The Johns Hopkins University

4:05 p.m. **Bayesian Models for Multiple Outcomes Nested within Domains—**❖Sally W. Thurston, University of Rochester Medical Center; David Ruppert, Cornell University

4:30 p.m. **Analysis of Multivariate Longitudinal Data Using Structural Equation Models—**❖Esben Budtz-Jorgensen, University of Copenhagen; Philippe Grandjean, Harvard University; Frodi Debes, University of Southern Denmark; Pal Weihe, Faroese Hospital System

4:55 p.m. **Double-Smoothing Local Linear Estimation in Partial Linear Models with Application to Environmental Health Data—**❖Li-Shan Huang, University of Rochester; Christopher Cox, The Johns Hopkins University

5:20 p.m. **Synthesizing Data from Multiple Sources for Environmental Risk Assessment—**❖Louise Ryan, Harvard School of Public Health

5:45 p.m. **Floor Discussion**

42 CC-610

Graphical Models and Variational Methods—Invited

IMS, Section on Bayesian Statistical Science

Organizer(s): Martin Wainwright, University of California, Berkeley

Chair(s): Martin Wainwright, University of California, Berkeley

4:05 p.m. **Variational Methods for Dirichlet Process Mixtures—**❖David M. Blei, Princeton University; Michael I. Jordan, University of California, Berkeley

4:35 p.m. **Structured Prediction, Dual Extragradient, and Bregman Projections—**❖Ben Taskar, University of California, Berkeley

5:05 p.m. **A Variational Inference Procedure Allowing Internal Structure for Overlapping Clusters and Deterministic Constraints—**❖Christopher Meek, Microsoft Research; Dan Geiger, Technion-Israel Institute of Technology

5:35 p.m. **Floor Discussion**

43 CC-213

● Statistical Methods in HIV/AIDS Research—Invited

Section on Statistics in Epidemiology, Biometrics Section, ENAR

Organizer(s): Michael G. Hudgens, The University of North Carolina at Chapel Hill

Chair(s): Michael G. Hudgens, The University of North Carolina at Chapel Hill

4:05 p.m. **Methods for Determining the Accuracy of Quantitative PCR for Low Levels of HIV-1—** ❖Barbra Richardson, University of Washington

4:25 p.m. **A Bernoulli/Left-Censored Lognormal Mixture Model for Activity of the Protease of HIV-1 as a Function of Amino Acid Characteristics—** ❖Paul W. Stewart, The University of North Carolina at Chapel Hill

4:45 p.m. **Evaluating Linked Substitutions in HIV Genomic Sequences—** ❖Francoise Seillier-Moiseiwitsch, Georgetown University Medical Center; Huwaida Rabie, Georgetown University Medical Center; Rebecca Slack, Georgetown University Medical Center; JaeHyung Ahn, The University of North Carolina at Chapel Hill; Gary Koch, The University of North Carolina at Chapel Hill

5:05 p.m. **A Comprehensive Mathematical Model of HIV/STD Spread in Communities—** ❖Georgiy V. Bobashev, RTI International; Michael Goedecke, RTI International; Elizabeth Costenbader, RTI International; Wiliam Zule, RTI International

5:25 p.m. Disc: Sarah Holte, Fred Hutchinson Cancer Research Center

5:45 p.m. **Floor Discussion**

44 CC-201

● Global Views on the Role of Statistics in Medical Device Regulation—Invited

Biopharmaceutical Section, ENAR

Organizer(s): Gene Pennello, U.S. Food and Drug Administration

Chair(s): Gene Pennello, U.S. Food and Drug Administration

4:05 p.m. **Statistical Regulations in the EU: Do They Exist for Medical Devices?—** ❖Bart Gerritse, Medtronic, Inc.

4:30 p.m. **Statistics in the Chinese Regulatory Environment of Medical Devices—** ❖Li Wei, Cardiovascular Institute and Fu Wai Hospital; Yao Chen, Peking University First Hospital

4:55 p.m. **The Global Harmonization Task Force—** ❖Larry G. Kessler, U.S. Food and Drug Administration

5:20 p.m. Disc: Greg Campbell, U.S. Food and Drug Administration

5:40 p.m. **Floor Discussion**

45 CC-3A

Statistical Learning and Data Mining—Invited

International Chinese Statistical Association, Section on Nonparametric Statistics

Organizer(s): Xiaotong Shen, University of Minnesota

Chair(s): Xiao-Li Meng, Harvard University

4:05 p.m. **Image Denoising via Solution Paths—** ❖Ji Zhu, University of Michigan; Li Wang, University of Michigan; Hui Zou, University of Minnesota

4:35 p.m. **Using Input-Dependent Weights for Model Combination and Model Selection with Multiple Sources of Data—** ❖Wei Pan, University of Minnesota; Guanghua Xiao, University of Minnesota; Xiaohong Huang, University of Minnesota

5:05 p.m. **Binning in Gaussian Kernel Regularization—** ❖Bin Yu, University of California, Berkeley; Tao Shi, University of California, Berkeley

5:35 p.m. **Floor Discussion**

46 CC-614

Statistical Graphics: from Playfair to Bertin and beyond—Invited

Section on Statistical Graphics, Section on Statistical Education

Organizer(s): Michael Friendly, York University

Chair(s): Antony Unwin, Universität Augsburg

4:05 p.m. **Graphics in French Statistical Journals during the 19th Century—** ❖Antoine de Falguerolles, University Paul Sabatier (Toulouse III)

4:35 p.m. **Andre-Michel Guerry and the Rise of Moral Statistics—** ❖Michael Friendly, York University

5:05 p.m. **William Playfair and the Psychology of Graphs—** ❖Ian Spence, University of Toronto

5:35 p.m. **Floor Discussion**

47 CC-210

● Statistical Methods in Oral Health Research—Invited

Biometrics Section, WNAR

Organizer(s): Elizabeth G. Hill, Medical University of South Carolina

Chair(s): Elizabeth H. Slate, Medical University of South Carolina

4:05 p.m. **A Semiparametric Bayesian Model for Inter-Rater Agreement of Probing Pocket Depth—**

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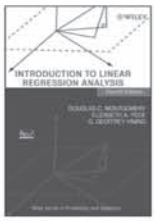


Introduction to Linear Regression Analysis, 4th Edition

Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining

The Fourth Edition of Introduction to Linear Regression Analysis describes both the conventional and less common uses of linear regression in the practical context of today's mathematical and scientific research. This popular book blends both theory and application to equip the reader with an understanding of the basic principles necessary to apply regression model-building techniques in a wide variety of application environments.

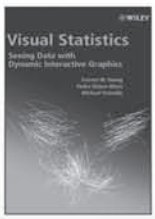
0-471-75495-1 • July 2006 • 640 pp. • Cloth • $110.00

Regression Analysis by Example, 4th Edition

Samprit Chatterjee, Ali S. Hadi

Carrying out a successful application of regression analysis requires a balance of theoretical results, empirical rules, and subjective judgment. *Regression Analysis by Example, Fourth Edition* explains the principles underlying exploratory data analysis, emphasizing data analysis rather than statistical theory. Completely rewritten, reorganized, and updated, the new edition is expanded and modernized to reflect recent advances in the field, offering in-depth treatment of diagnostic plots, time series regression, multicollinearity, logistic regression, and robust regression and data mining.

0-471-74696-7 • September 2006 • 416 pp. • Cloth • $105.00



Visual Statistics: Seeing Data with Dynamic Interactive Graphics

Forrest W. Young, Pedro M. Valero-Mora, Michael Friendly

Visual statistics accomplishes the goal of bringing the most complex and advanced statistical methods within the reach of those with little statistical training by using animated graphics of the data. This text shows how to make dynamic visualizations that are fully interactive and respond instantly to the user's nudges and prods. The graphics are created from relevant mathematical statistics and the interactive presentation of dynamic graphics promotes perceptual and cognitive understanding of the data's story.

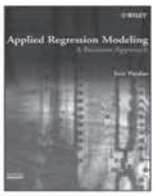
0-471-68160-1 • September 2006 • 448 pp. 8 Cloth • $89.95

Statistical Matching: Theory and Practice

Marcello D'Orazio, Marco Di Zio, Mauro Scanu

There is more statistical data produced in today's modern society than ever before. This data is analyzed and cross-referenced for innumerable reasons. However, many data sets have no shared element and are harder to combine and therefore obtain any meaningful inference from. Statistical matching allows just that; it is the art of combining information from different sources (particularly sample surveys) that contain no common unit. In response to modern influxes of data, it is an area of rapidly growing interest and complexity. *Statistical Matching: Theory and Practice* introduces the basics of statistical matching, before going on to offer a detailed, up-to-date overview of the methods used and an examination of their practical applications.

0-470-02353-8 • May 2006 • 268 pp. • Cloth • $99.00

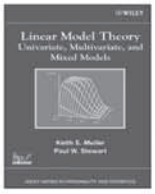


Applied Regression Modeling: A Business Approach

Iain Pardoe

Applied Regression Modeling: A Business Approach represents a consciously fused effort to put all the building blocks of regression modeling in one place (with chapters on statistical foundations and simple linear regression), before constructing a general framework for building multiple linear regression models. The emphasis is on interesting and challenging applications that provide a unified fabric for business settings. An abundant use of graphics is employed throughout the book in an effort to keep the verbiage to an absolute minimum. SPSS, Excel, and R software discussions are incorporated.

0-471-97033-6 8 • August 2006 • 320 pp. • Cloth • $99.95

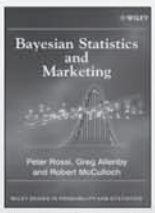


Linear Model Theory: Univariate, Multivariate, and Mixed Models

Keith E. Muller, Paul W. Stewart

Fundamentals of Multivariate Linear Models: Theory and Application consists of five parts. Part 1 centers on brief, clear mathematical statements of notation, assumptions, and formulas. Real data examples illustrate and motivate students. Part 2 consists of mathematical prerequisites (matrix algebra and the fundamentals of multivariate statistical theory) and is based on the assumption that some students either have not learned this material already or will need to review it. Part 3 contains chapters on the multivariate Gaussian distribution and quadratic forms. Part 4 focuses on estimation and inference. Part 5 concentrates on study planning. Each section of the book contains homework assignments and exams that instructors may use for their classes, or that students can use to test their own knowledge

0-471-21488-4 • July 2006 • 480 pp. • Cloth • $84.95



Bayesian Statistics and Marketing

Peter Rossi, Greg Allenby, Rob McCulloch

Bayesian Statistics and Marketing describes the basic advantages of the Bayesian approach, detailing the nature of the computational revolution. Examples contained include household and consumer panel data on product purchases and survey data, demand models based on micro-economic theory and random effect models used to pool data among respondents. The book also discusses the theory and practical use of MCMC methods.

0-470-86367-6 • January 2006 • 368 pp. • Cloth • $79.95

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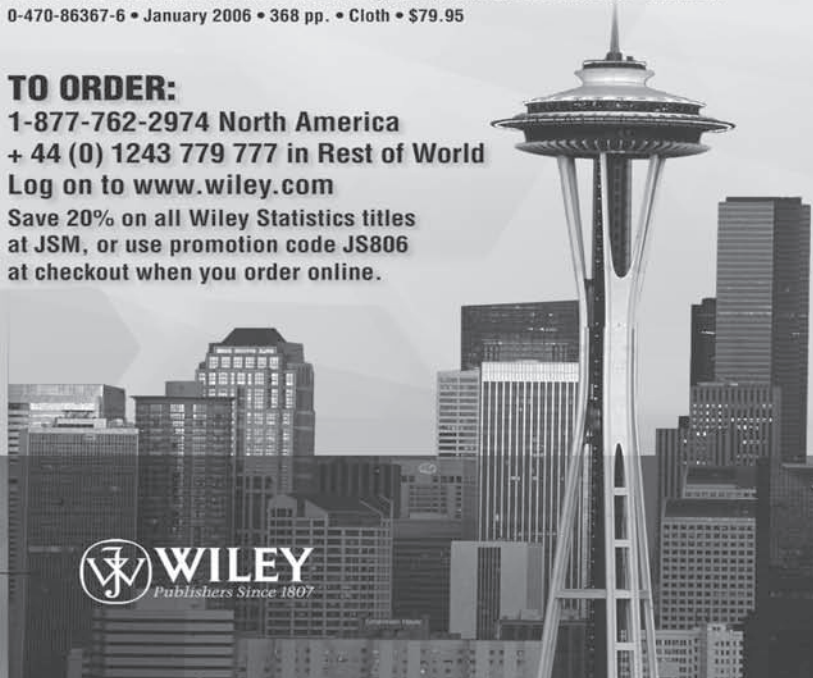

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❖Elizabeth G. Hill, Medical University of South Carolina; Elizabeth H. Slate, Medical University of South Carolina

4:30 p.m. **Ensemble Models for Risk Prediction with Survey and Multilevel Data**—❖Stuart A. Gansky, University of California, San Francisco; Nancy F. Cheng, University of California, San Francisco

4:55 p.m. **Spatial Analyses of Periodontal Data Using Conditionally Autoregressive Priors Having Two Classes of Neighbor Relations**—❖Brian Reich, North Carolina State University; James Hodges, University of Minnesota; Bradley P. Carlin, University of Minnesota

5:20 p.m. Disc: Julie Stoner, University of Nebraska Medical Center

5:40 p.m. **Floor Discussion**

Invited Panels 4:00 p.m.–5:50 p.m.

48 CC-617

● ✪ Minorities, Environment, and Statistics—Invited

Committee on Minorities in Statistics, Section on Statistical Education

Organizer(s): Nagambal Shah, Spelman College

Chair(s): Calvin L. Williams, Clemson University

Panelists: ❖Nagambal Shah, Spelman College
❖William Hunt, North Carolina State University
❖Julia Bader, The University of Texas at El Paso
❖Kishi Animashaun Ducre, Syracuse University

5:45 p.m. **Floor Discussion**

49 CC-3B

● ✪ 'Bad' Statistical Methods: What Are the Costs?—Invited

The American Statistician, Section on Statistical Education, Section on Statistical Consulting, Section on Teaching Statistics in the Health Sciences

Organizer(s): Peter Westfall, Texas Tech University

Chair(s): Peter Westfall, Texas Tech University

Panelists: ❖David Freedman, University of California, Berkeley
❖S. Stanley Young, National Institute of Statistical Sciences
❖Mary Foulkes, U.S. Food and Drug Administration
❖Juliet Shaffer, University of California, Berkeley

5:45 p.m. **Floor Discussion**

Topic-Contributed Sessions 4:00 p.m.–5:50 p.m.

50 CC-204

● Strengths and Weaknesses of a Megatrial—Topic-Contributed

Biopharmaceutical Section, Biometrics Section, ENAR

Organizer(s): Vipin Arora, Novartis Pharmaceuticals Corporation; Tsushung A. Hua, Novartis Pharmaceuticals Corporation

Chair(s): John E. Connett, University of Minnesota

4:05 p.m. **Megatrials: Not Necessarily Either/Or**—❖Lloyd Fisher, University of Washington

4:25 p.m. **Issues in the Use of a Composite Endpoint in Megatrials**—❖Steven Snapinn, Amgen Inc.

4:45 p.m. **Are Megatrials Worth It?**—❖Barry Davis, The University of Texas School of Public Health

5:05 p.m. **Strengths and Weaknesses of a Megatrial: Complexity of Designing, Handling, and Implementing Megatrials**—❖Timothy Church, University of Minnesota

5:25 p.m. Disc: Patrick O'Meara, Pat O'Meara Associates, Inc.

5:45 p.m. **Floor Discussion**

51 CC-613

● ✪ Issues with Open Source Statistical Software in Industry: Validation, Legal Issues, and Regulatory Requirements—Topic-Contributed

Section on Statistical Computing, Biopharmaceutical Section, Section on Statistical Consulting, Section on Statistical Graphics

Organizer(s): Nicholas J. I.Lewin-Koh, Eli Lilly and Company

Chair(s): Stacy Lindborg, Eli Lilly and Company

4:05 p.m. **Open-Source Software and Pharma Development: Computer Systems Validation and Value**—❖Anthony Rossini, Novartis Pharma AG

4:25 p.m. **Open-Source Software in Pharmaceutical Discovery**—❖Gregory Warnes, Pfizer Inc.; A. Max Kuhn, Pfizer Global Research & Development; James Rogers, Pfizer Global Research & Development

4:45 p.m. **Use of Open-Source Software by an Academic Center in a Regulatory Environment**—❖Thomas D. Cook, University of Wisconsin-Madison

5:05 p.m. **Times R A'changin': FDA Perspectives on Use of Open Source**—❖B. Sue Bell, U.S. Food and

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Drug Administration; Kathleen Morrish, U.S. Food and Drug Administration; Ferrin Harrison, U.S. Food and Drug Administration; David Petullo, U.S. Food and Drug Administration; Laura Thompson, U.S. Food and Drug Administration; Gerry W. Gray, U.S. Food and Drug Administration

5:25 p.m. **Software and Code Evaluation: Risk-Based Approaches to Software Integration**—❖Nicholas J. I. Lewin-Koh, Eli Lilly and Company; Robert A. Myers, Eli Lilly and Company

5:45 p.m. **Floor Discussion**

52 CC-602

Model-Based Seasonal Adjustment: Algorithms and Applications—Topic-Contributed

Business and Economics Statistics Section

Organizer(s): Brian C.Monsell, U.S. Census Bureau

Chair(s): Tucker S.McElroy, U.S. Census Bureau

4:05 p.m. **Numerical Implementation of Kalman Filter/ Smoother for State Space Models with Partially Diffuse Initial Conditions**—❖Rajesh Selukar, SAS Institute, Inc.

4:25 p.m. **Evaluation of Finite-Sample Diagnostics for Model-Based Seasonal Adjustments and Trends**—❖David Findley, U.S. Census Bureau; Richard Gagnon, U.S. Census Bureau; Tucker S. McElroy, U.S. Census Bureau

4:45 p.m. **Aspects of Model Averaging for Seasonal Adjustment**—❖John Aston, Academia Sinica

5:05 p.m. **Assessing Spectral Peaks in Economic Time Series**—❖Thomas D. Evans, Bureau of Labor Statistics; Stuart Scott, Bureau of Labor Statistics; Scott Holan, University of Missouri-Columbia; Tucker S. McElroy, U.S. Census Bureau

5:25 p.m. **Floor Discussion**

53 CC-615

● From Sharks to Salmon: Quantitative Tools in Marine Demography and Management for Puget Sound and Alaska Fisheries—Topic-Contributed

Section on Statistics and the Environment

Organizer(s): Loveday Conquest, University of Washington

Chair(s): Loveday Conquest, University of Washington

4:05 p.m. **The Management Strategy Evaluation Approach and the Gulf of Alaska Walleye Pollock Fishery**—❖Teresa A'mar, University of Washington; Andre E. Punt, University of Washington; Martin W. Dorn, National Oceanic & Atmospheric Administration

4:25 p.m. **Using Mixture Models To Estimate Abundance of Patchy Species**—❖Elizabeth Conners, National Oceanic & Atmospheric Administration

4:45 p.m. **Forecasts of Salmon Returns**—❖Saang-Yoon Hyun, Columbia River Inter-Tribal Fish Commission; David H. Salinger, University of Washington

5:05 p.m. **Using Multivariate Statistics To Resolve Issues of Scale with Salmon Survival and Ocean Environmental Data**—❖Rishi Sharma, University of Washington

5:25 p.m. **Reconciling Biological Realities with Statistical Requirements in Fitting Growth Curves with Emphasis on Growth Models for Sharks**—❖Nicole Vega, University of Washington; Vincent Gallucci, University of Washington

5:45 p.m. **Floor Discussion**

54 CC-620

● ✪ Overview and Results from the 2005 National Census Test—Topic-Contributed

Section on Survey Research Methods

Organizer(s): Jennifer Tancreto, U.S. Census Bureau

Chair(s): James Treat, U.S. Census Bureau

4:05 p.m. **An Overview of the 2005 National Census Test**—❖Jennifer Tancreto, U.S. Census Bureau

4:25 p.m. **Effect of Internet Response Mode Designs on Data Quality and Ease of Use**—❖Kelly Allmang, U.S. Census Bureau; Kevin Zajac, U.S. Census Bureau

4:45 p.m. **Experimental Treatment Results of the Bilingual Census Form from the 2005 National Census Test**—❖Julie Bouffard, U.S. Census Bureau; Jennifer Tancreto, U.S. Census Bureau

5:05 p.m. **Analysis of Self-Response Options and Respondent-Friendly Design from the 2005 National Census Test**—❖Michael Bentley, U.S. Census Bureau

5:25 p.m. **Experimental Treatment Results for the Age, Relationship, and Tenure Items from the 2005 National Census Test**—❖Joan Hill, U.S. Census Bureau; Jennifer Tancreto, U.S. Census Bureau; Cynthia A. Rothhaas, U.S. Census Bureau

5:45 p.m. **Floor Discussion**

55 CC-611

● Statistical Issues in Veterans Administration (VA) Health Services Research—Topic-Contributed

Section on Health Policy Statistics

Organizer(s): Roslyn A. Stone, Veteran's Affairs Pittsburgh Healthcare System

Chair(s): Xiao-Hua Andrew Zhou, University of Washington

4:05 p.m. **Statistical Issues in Racial/Ethnic Disparities Research—**❖Roslyn A. Stone, Veteran's Affairs Pittsburgh Healthcare System; Huanyu Chen, VA Pittsburgh Healthcare System; Xiangyan Xu, Veteran's Affairs Pittsburgh Healthcare System

4:25 p.m. **The Use of Hierarchical Linear Models To Evaluate Methods for the Delivery of Primary Care—**❖Martin Lee, University of California, Los Angeles

4:45 p.m. **Understanding Variation in Patient Safety Measures in the VA: How Bayesian Methods Can Help—**❖Cindy Christiansen, Boston University

5:05 p.m. **A Decision-Theoretic Approach to Identifying Future High-Cost Patients—**❖Kenneth Pietz, U.S. Department of Veterans Affairs; Margaret M. Byrne, University of Miami; Laura A. Petersen, U.S. Department of Veterans Affairs

5:25 p.m. Disc: Stephan Fihn, University of Washington School of Public Health

5:45 p.m. **Floor Discussion**

56 CC-604

● ✪ Bayesian Student Paper Competition I—Topic-Contributed

Section on Bayesian Statistical Science

Organizer(s): Steven N. MacEachern, The Ohio State University

Chair(s): Merlise Clyde, Duke University

4:05 p.m. **Bayesian Synthesis—**❖Qingzhao Yu, The Ohio State University; Steven N. MacEachern, The Ohio State University; Mario Peruggia, The Ohio State University

4:25 p.m. **A Bayesian Framework To Combine Multivariate Spatial Data and Physical Models for Hurricane Surface Wind Prediction—**❖Kristen M. Foley, North Carolina State University; Montserrat Fuentes, North Carolina State University

4:45 p.m. **A Bayesian Pooled Analysis of Doubly Censored HIV Data Using the Hierarchical Cox Model—**❖Wei Zhang, Boehringer Ingelheim; Kathryn Chaloner, The University of Iowa; Ying Zhang, The University of Iowa; Mary K. Cowles, The University of Iowa

5:05 p.m. **An Adaptive Bayesian Approach to Jointly Modeling Response and Toxicity in Phase I Dose-Finding Trials—**❖Meihua Wang, University of Pittsburgh; Roger Day, University of Pittsburgh

5:25 p.m. **Hierarchical State-Space Model for Microarray Short Time Course Experiments—**❖Haiyan Wu, Emory University; Ming Yuan, Georgia Institute of Technology; Susan Kaech, Yale University; M. Elizabeth Halloran, Fred Hutchinson Cancer Research Center

5:45 p.m. **Floor Discussion**

57 CC-612

● Student Paper Competition Award Presentations—Topic-Contributed

Section on Government Statistics, Section on Survey Research Methods, Social Statistics Section

Organizer(s): Michael P. Cohen, Bureau of Transportation Statistics

Chair(s): Michael P. Cohen, Bureau of Transportation Statistics

4:05 p.m. **Robust Model-Based Predictor of Finite Population Total—**❖Yan Li, University of Maryland; Partha Lahiri, University of Maryland

4:25 p.m. **Causal Inference Based on Directed Acyclic Graphical Models and the Randomization Distribution: a Probability-Sampling Approach—**❖Joel E. Hanson, University of California, Berkeley

4:45 p.m. **Small-Area Estimation for Business Surveys—**❖Hukum Chandra, University of Southampton

5:05 p.m. **An Application of Parametric Bootstrap Method in Small-Area Estimation Problem—**❖Huilin Li, University of Maryland

5:25 p.m. **Local Polynomial Regression for Small-Area Estimation—**❖Pushpal Mukhopadhyay, Iowa State University; Tapabrata Maiti, Iowa State University

5:45 p.m. **Floor Discussion**

Topic-Contributed Panels 4:00 p.m.–5:50 p.m.

58 CC-608

● ✪ Going beyond the Law: Ethical Aspects of Privacy in Surveys—Topic-Contributed

Social Statistics Section

Organizer(s): Gerald Gates, U.S. Census Bureau

Chair(s): Virginia A. de Wolf, Consultant

Panelists: ❖Gerald Gates, U.S. Census Bureau
❖Pamela White, Statistics Canada
❖Jeffery Rodamar, U.S. Department of Education

5:45 p.m. **Floor Discussion**

59 CC-609

● How Is the TI-83 Calculator Changing How We Teach the Introductory Course in Statistics? Or Is It?—Topic-Contributed

Section on Statistical Education

Organizer(s): Marjorie Bond, Monmouth College

Chair(s): Marjorie Bond, Monmouth College

Panelists: ❖Dexter Whittinghill, Rowan University
❖Christopher Mecklin, Murray State University
❖Carolyn P. Dobler, Gustavus Adolphus College
❖Madhuri Mulekar, University of South Alabama

5:45 p.m. **Floor Discussion**

60 CC-607

The Nontechnical Side of Statistical Consulting: Reflections on Careers as Working Statisticians and Suggestions and Guidance for Those on the Way—Topic-Contributed

Section on Statistical Consulting, Section on Statistical Education

Organizer(s): John Bartko, Retired

Chair(s): Edward D. Rothman, University of Michigan

Panelists: ❖John Bartko, Retired
❖Thomas Boardman, Colorado State University
❖Ross Prentice, Fred Hutchinson Cancer Research Center
❖Gerald van Belle, University of Washington

5:45 p.m. **Floor Discussion**

61 CC-211

Statistical Aspects of Pharmaceutical Industry Proof-of-Concept Studies—Topic-Contributed

Biopharmaceutical Section

Organizer(s): Alfred Balch, Novartis Pharmaceuticals Corporation
Chair(s): Joga Gobburu, U.S. Food and Drug Administration

Panelists:
- ❖Surya Mohanty, Johnson & Johnson Pharmaceutical R&D
- ❖Glen Laird, Novartis Pharmaceuticals Corporation
- ❖Alfred Balch, Novartis Pharmaceuticals Corporation
- ❖Jens Praestgaard, Novartis Pharmaceuticals Corporation

5:45 p.m. **Floor Discussion**

Regular Contributed Sessions 4:00 p.m.–5:50 p.m.

62 CC-205

● Measuring Gene Expression—Contributed

Biometrics Section, WNAR, ENAR

Chair(s): Saonli Basu, University of Minnesota

4:05 p.m. **Clustering of Time-Course Gene Expression Data Using Functional Data Analysis**—❖Joon Jin Song, University of Arkansas; Ho-Jin Lee, Schering-Plough Corporation; Jeffrey S. Morris, M. D. Anderson Cancer Center; Sanghoon Kang, Oak Ridge National Laboratory

4:20 p.m. **Dynamic Network Analysis of Time-Course Gene Expression Data**—❖Donatello Telesca, University of Washington; Lurdes Y. T. Inoue, University of Washington

4:35 p.m. **A Bayes Approach to Virus Gene Time Course Expression Data**—❖I-shou Chang, National Health Research Institutes

4:50 p.m. **Comparing Distance Measures for Clustering Time-Course Microarray Data**—❖Theresa Scharl, Vienna University of Technology; Friedrich Leisch, University of Munich

5:05 p.m. **Bayesian Markov Chain Monte Carlo and Restricted Maximum Likelihood Study of Gene Expression Patterns across Time**—❖Feng Hong, University of Illinois; Sandra Rodriguez-Zas, University of Illinois

5:20 p.m. **Semiparametric Analysis of Gene Expression Patterns across Ages**—❖Sandra Rodriguez-Zas, University of Illinois; Bruce Southey, University of Illinois; Gene Robinson, University of Illinois

5:35 p.m. **Connectivity, Module-Conformity, and Significance: Understanding Gene Coexpression Network Methods**—❖Jun Dong, University of California, Los Angeles; Steve Horvath, University of California, Los Angeles; Andy Yip, National University of Singapore

63 CC-206

● Advances in Analyzing fMRI Studies—Contributed

Biometrics Section, ENAR

Chair(s): Ciprian M. Crainiceanu, The Johns Hopkins University

4:05 p.m. **Intrinsic Voxel Correlation in fMRI**—❖Daniel Rowe, Medical College of Wisconsin; Raymond G. Hoffmann, Medical College of Wisconsin

4:20 p.m. **Robust Independent Component Analysis in fMRI**—❖Ping Bai, The University of North Carolina at Chapel Hill; Young Truong, The University of North Carolina at Chapel Hill

4:35 p.m. **A Semiparametric Approach To Estimate the Family-Wise Error Rate in fMRI Using Resting-State Data**—❖Rajesh Nandy, University of California, Los Angeles

4:50 p.m. **Spatio-Temporal Modeling of Functional Magnetic Resonance Imaging Data**—❖Qihua Lin, Southern Methodist University; Patrick S. Carmack, The University of Texas Southwestern Medical Center at Dallas; Richard F. Gunst, Southern Methodist University; William R. Schucany, Southern Methodist University; Jeffrey S. Spence, The University of Texas Southwestern Medical Center at Dallas

5:05 p.m. **Interpreting Experience-Based Cognition from fMRI**—❖Rajan Patel, Rice University; F. DuBois Bowman, Emory University; Ying Guo, Emory University; Gordana Derado, Emory University; Lance Waller, Emory University; Amita K. Manatunga, Emory University

5:20 p.m. **Detecting Cerebral Activation from Functional Magnetic Resonance Imaging Data**—❖William Baumann, Iowa State University; Ranjan Maitra, Iowa State University

5:35 p.m. **Floor Discussion**

64 CC-214

● ✪ Methodological Issues in Genetics Studies—Contributed

Section on Statistics in Epidemiology, Biometrics Section, ENAR

Chair(s): Bryan Langholz, Keck School of Medicine of USC

4:05 p.m. **An Importance Sampling Procedure for Obtaining Confidence Intervals of Disease Loci with General Pedigree Data**—❖Shuyan Wan, The Ohio State University; Shili Lin, The Ohio State University

4:20 p.m. **Correcting for Measurement Errors in Structured Association Tests**—❖Jasmin Divers, The University of Alabama at Birmingham; Laura K. Vaughan, The University of Alabama at Birmingham; David Redden, The University of Alabama at Birmingham; Jose R. Fernandez, The University of Alabama at Birmingham; David B. Allison, The University of Alabama at Birmingham

4:35 p.m. **Genomic Control for Association Studies When the Genetic Model Is Unknown**—❖Gang Zheng, National Heart, Lung, and Blood Institute; Boris Freidlin, National Cancer Institute; Joseph Gastwirth, The George Washington University

4:50 p.m. **Pedigree Disequilibrium Test for X-Chromosome Markers**—❖Jie Ding, The Ohio State University; Shili Lin, The Ohio State University

5:05 p.m. **Incorporating Endophenotypes into Allelic Association Studies**—❖Chao Hsiung, National Health Research Institutes

5:20 p.m. **Allowing for Etiologic Heterogeneity by Disease Subtype Increases the Power of Tests for Genetic Association**—❖Peter Kraft, Harvard University; Sholom Wacholder, National Cancer Institute; Nilanjan Chatterjee, National Cancer Institute

5:35 p.m. **A Multiple Test Procedure Controling Type I Error for Genome Scan Association Studies Using HapMap Data**—❖Renfang Jiang, Michigan Technological University; Jianping Dong, Michigan Technological University; Shuanglin Zhang, Michigan Technological University; Qiuying Sha, Michigan Technological University

65 CC-619

● Sample Survey Design I—Contributed

Section on Survey Research Methods

Chair(s): Soma Roy, The Ohio State University

4:05 p.m. **Model-Based Sampling Designs for Optimum Estimation**—❖Sun Woong Kim, Dongguk University; Steven G. Heeringa, University of Michigan; Peter W. Solenberger, University of Michigan

4:20 p.m. **Optimum Allocation in Two-Stage and Stratified Two-Stage Sampling for Multivariate Surveys**—❖M. G. M. Khan, The University of the South Pacific; Munish A. Chand, The University of the South Pacific

4:35 p.m. **An Application of Genetic Algorithms to Multivariate Optimal Allocation in Stratified Sample Designs**—❖Charles Day, U.S. Internal Revenue Service

4:50 p.m. **The Effect of the Number Eligible and Number Selected within Households on Reported Income and Other Socioeconomic Characteristics in the 2004 NSDUH**—❖Tania Robbins, RTI International

5:05 p.m. **NASS/USDA Area Frame Sample Allocation for Estimation of Number of Farms Not on the Ag Census Mailing List**—❖Floyd Spears, Harding University; Raj S. Chhikara, University of Houston-Clear Lake; Charles R. Perry, National Agricultural Statistics Service; Phillip S. Kott, National Agricultural Statistics Service

5:20 p.m. **Simple Power Calculations: How Do We Know We Are Doing It the Right Way?**—❖Michael Vorburger, RTI International

5:35 p.m. **Estimation in Network Populations**—❖Mike Kwanisai, National Opinion Research Center

66 CC-618

● Sample Survey Quality I—Contributed

Section on Survey Research Methods

Chair(s): Michael P. Battaglia, Abt Associates Inc.

4:05 p.m. **Nonresponse Bias Studies: 2003–2004 School and Staffing Survey**—❖Robyn Sirkis, U.S. Census Bureau; Bac Tran, U.S. Census Bureau; Phyllis Singer, U.S. Census Bureau

4:20 p.m. **Call Efforts and Relational Estimates: Preliminary Findings**—❖Chung-tung Lin, U.S. Food and Drug Administration

4:35 p.m. **Estimation of Low Incidence Rates under Selection Bias**—❖Bin Wang, University of South Alabama; Jiayang Sun, Case Western Reserve University

4:50 p.m. **Assessment of Diagnostic Tests in the Presence of Verification Bias Using Multiple Imputation and Resampling Methods**—❖Michael P. McDermott, University of Rochester Medical

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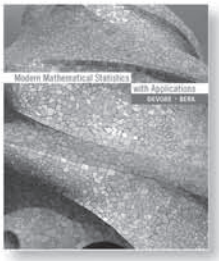

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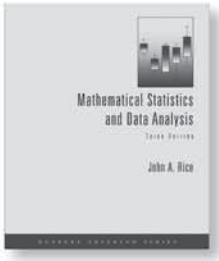

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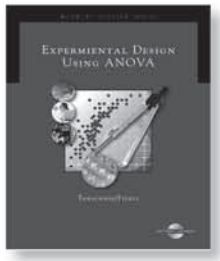

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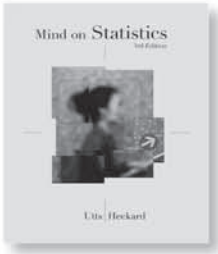

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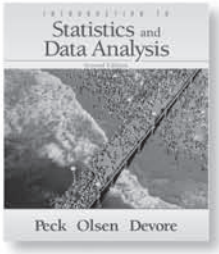

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Center; Hua He, University of Rochester Medical Center

5:05 p.m. **Treatment of Spatial Autocorrelation in Geocoded Crime Data**—❖Krista Collins, Statistics Canada; Colin Babyak, Statistics Canada

5:20 p.m. **Assessing Population Coverage in a Health Survey**—❖Karen Davis, National Center for Health Statistics; Chris Moriarity, National Center for Health Statistics

5:35 p.m. **A Study of IRS Administrative Payroll as a Substitute for Missing Payroll**—❖Melvin McCullough, U.S. Census Bureau

67 CC-606

● ✪ Industrial Applications—Contributed

Section on Quality and Productivity, Section on Physical and Engineering Sciences

Chair(s): Angela Patterson, GE Global Research

4:05 p.m. **Hierarchcial Modeling Using GLMs To Improve Yield**—❖Christina Mastrangelo, University of Washington; Naveen Kumar, University of Washington

4:20 p.m. **Sequential Analysis on Misspecified Distributions**—❖Theresa Utlaut, Intel Corporation; Kevin Anderson, Intel Corporation

4:35 p.m. **On Robust Statistics**—❖Kevin Anderson, Intel Corporation

4:50 p.m. **Robust Analysis of Variance: Process Design and Quality Improvement**—❖Avi Giloni, Yeshiva University; Sridhar Seshadri, New York University; Jeffrey Simonoff, New York University

5:05 p.m. **Statistical Quality Control of Loadboards for Electronic Package Testers**—❖Meihui Guo, National Sun Yat-sen University; Yu-Jung Huang, I-Shou University; Ming-Kun Chen, I-Shou University

5:20 p.m. **Statistical Monitoring of Multistage Processes**—❖Fugee Tsung, The Hong Kong University of Science and Technology

5:35 p.m. **Stochastic Models for Predicting Product Failure Rate of Parenterals Due to Particulate Matter**—❖Chi-Hse Teng, Pfizer Inc.

68 CC-616

● ✪ Risk Assessment in Business and Finance—Contributed

Section on Risk Analysis, Section on Quality and Productivity

Chair(s): Duane Steffey, Exponent, Inc.

4:05 p.m. **On the Application of the Latent-Variable Model To Predict Business Default**—❖K. Paul Chin, Dun & Bradstreet, Inc.; Edgar Ortiz, Dun & Bradstreet, Inc.; Jianjing Ling, Dun & Bradstreet, Inc.

4:20 p.m. **Mixture Models Applied To Reject Inference**—❖Billie Anderson, The University of Alabama; J. Michael Hardin, The University of Alabama; Ana Landeros, The University of Alabama; Michael Conerly, The University of Alabama

4:35 p.m. **How To Address Click Fraud in Pay-per-Click Programs**—❖Vincent Granville, Authenticlick

4:50 p.m. **Application of Kernel Methods to Fraud Detection**—❖Ravi Mallela, Equbits

5:05 p.m. **Partial Hedging Using Malliavin Calculus**—❖Lan Nygren, Rider University; Lakner Peter, New York University

5:20 p.m. **An Econometric Model for Insurance Underwriting Using Bivariate Zero-Inflated Count Models**—K. Paul Chin, Dun & Bradstreet, Inc.; ❖Edgar Ortiz, Dun & Bradstreet, Inc.

5:35 p.m. **Investigating the Determinants of Financial Harm and Predatory Lending through RDD and Victim Population Surveys**—❖Danna Moore, Washington State University

69 CC-601

Modeling—Contributed

Section on Statistical Computing

Chair(s): Wei Pan, University of Cincinnati

4:05 p.m. **Finite Elements Methods for Density Estimation**—❖George Terrell, Virginia Polytechnic Institute and State University

4:20 p.m. **On the Mixture of Multivariate Skew Normal Distributions**—❖Jack C. Lee, National Chiao Tung University; Tsung-I Lin, National Chung Hsing University

4:35 p.m. **Latent Regression**—❖Thaddeus Tarpey, Wright State University; Eva Petkova, Columbia University

4:50 p.m. **Estimation for Finite Mixture Multinomial Models**—❖Nagaraj Neerchal, University of Maryland Baltimore County; Minglei Liu, Medtronic, Inc.; Jorge Morel, Procter & Gamble

5:05 p.m. **Predictive Discrepancy Using Full Cross-Validation for Regression Models**—❖Mark Greenwood, Montana State University

5:20 p.m. **On the Nonnegative Garrote Estimator**—❖Ming Yuan, Georgia Institute of Technology; Yi Lin, University of Wisconsin-Madison

5:35 p.m. **Latent Transition Analysis: Inference and Estimation**—❖Hwan Chung, Michigan State University

70 CC-603

● ✪ Bayesian Spatial and Spatio-Temporal Models—Contributed

Section on Bayesian Statistical Science

Chair(s): Peter F. Craigmile, The Ohio State University

4:05 p.m. **Bayesian Change Point Analysis for Local Linear Regression: a New Approach to Prior Selection**—❖Rajib Paul, The Ohio State University; L. Mark Berliner, The Ohio State University

4:20 p.m. **A Bayesian Dynamic Spatio-Temporal Interaction Model**—❖Jacob Oleson, The University of Iowa; Hoon Kim, California State Polytechnic University, Pomona

4:35 p.m. **Multiresolution Hierarchical Dynamical Models for Spatio-Temporal Processes**—❖Ali Arab, University of Missouri-Columbia; Christopher K. Wikle, University of Missouri-Columbia

4:50 p.m. **Spatial Bayesian Modeling of fMRI Data: a Multiple-Subject Analysis**—❖Lei Xu, University of Michigan; Timothy D. Johnson, University of Michigan; Thomas Nichols, University of Michigan

5:05 p.m. **Bayesian Hierarchical Spatially Correlated Functional Data Analysis with Application to Colon Carcinogenesis**—❖Veera Baladandayuthapani, M. D. Anderson Cancer Center; Raymond J. Carroll, Texas A&M University; Bani K. Mallick, Texas A&M University; Mee Young Hong, Texas A&M University

5:20 p.m. **Floor Discussion**

71 CC-605

Designs for Clinical Trials and Other Studies—Contributed

IMS, Biometrics Section, ENAR

Chair(s): Rebecca Nugent, University of Washington

4:05 p.m. **Identifiably of Placebo Responders via Potential Outcomes**—❖Eva Petkova, Columbia University; Thaddeus Tarpey, Wright State University; Yimeng Lu, Columbia University; Donald Klein, Columbia University

4:20 p.m. **Efficient Adaptive Designs for Clinical Trials**—❖Jay Bartroff, Stanford University; Tze Leung Lai, Stanford University

4:35 p.m. **Remodified Continual Reassessment Method and the PBTC Experience**—❖Arzu Onar, St. Jude Children's Research Hospital; Mehmet Kocak, St. Jude Children's Research Hospital; James Boyett, St. Jude Children's Research Hospital

4:50 p.m. **D-Optimal Designs for Compartmental Models**—❖Gang Li, GlaxoSmithKline; Dibyen Majumdar, University of Illinois at Chicago

5:05 p.m. **Robust Designs for Binomial Data**—❖Adeniyi Adewale, University of Alberta; Douglas P. Wiens, University of Alberta

5:20 p.m. **Exact D-Optimal Designs for Second-Order Response Surface Model on a Sphere and with Qualitative Factors**—❖Chuan-Pin Lee, National Sun Yat-sen University; Mong-Na Lo Huang, National Sun Yat-sen University; Ray-Bing Chen, National University of Kaohsiung

5:35 p.m. **D-Optimal Designs for Combined Polynomial and Trigonometric Regression on a Partial Circle**—❖Fu-Chuen Chang, National Sun Yat-sen University

72 CC-2A

● Clinical Trial Design and Analysis—Contributed

Biopharmaceutical Section, Biometrics Section, WNAR, ENAR

Chair(s): Sheng Feng, Duke University

4:05 p.m. **Note on Randomization-Based Inferences for Randomized Clinical Trials**—❖Guohua Pan, Johnson & Johnson Pharmaceutical R&D; Yibin Wang, Novartis Pharmaceuticals Corporation

4:20 p.m. **Four Types of Sums of Squares and Estimates of Treatment Differences in Multicenter Clinical Trials**—❖Daozhi Zhang, DOV Pharmaceutical, Inc.

4:35 p.m. **Optimal Allocation of Units When Comparing k Treatments to Two Controls of Unequal Importance**—❖Nairanjana Dasgupta, Washington State University

4:50 p.m. **A Method for Testing a Prespecified Subgroup in Clinical Trials**—❖Yang Song, Johnson & Johnson Pharmaceutical R&D; George Chi, Johnson &

Johnson Pharmaceutical R&D

5:05 p.m. **Some Issues in Fitting Clinical Count Data with Poisson Regression Model—**❖Abdul Sankoh, sanofi-aventis

5:20 p.m. **Interval Estimation of Risk Ratio in the Simple Compliance Randomized Trial—**❖Kung-Jong Lui, San Diego State University

5:35 p.m. **Floor Discussion**

73 CC-2B
● Phase II Trials—Contributed

Biopharmaceutical Section, Biometrics Section, ENAR

Chair(s): Dennis Cosmatos, Wyeth Research

4:05 p.m. **A Parallel Phase I/II Clinical Trial Design for Combination Therapies—**❖Xuelin Huang, M. D. Anderson Cancer Center; Swati Biswas, University of North Texas Health Science Center; Yasuhiro Oki, M. D. Anderson Cancer Center; Jean-Pierre Issa, M. D. Anderson Cancer Center; Donald Berry, The University of Texas

4:20 p.m. **Three-Outcome Design for Randomized Comparative Phase II Clinical Trials—**❖Shengyan Hong, Eli Lilly and Company; Yanping Wang, Eli Lilly and Company

4:35 p.m. **Optimal Trial Designs for Screening Cancer Therapeutic Agents—**❖Vandana Mukhi, New York University School of Medicine; Yongzhao Shao, New York University; Judith D. Goldberg, New York University School of Medicine

4:50 p.m. **Optimal Adaptive Designs in Phase II Trials—**❖Anindita Banerjee, North Carolina State University; Anastasios A. Tsiatis, North Carolina State University

5:05 p.m. **Optimal Two-Stage Designs for Phase II Clinical Trials for Continuous Endpoints—**❖Chinfu Hsiao, National Health Research Institutes; Hsiao-Hui Tsou, National Health Research Institutes; Jen-pei Liu, National Taiwan University; Shein-Chung Chow, Duke University

5:20 p.m. **Critical Statistical Issues in the Design and Analysis of Proof-of-Concept Clinical Trials in Multiple Sclerosis—**❖Chris Assaid, Merck & Co., Inc.

5:35 p.m. **Floor Discussion**

74 CC-212
● Methods for Incomplete Data—Contributed

Biometrics Section

Chair(s): Yichuan Zhao, Georgia State University

4:05 p.m. **Semiparametric Models and Sensitivity Analysis of Longitudinal Data with Nonrandom Dropouts—**❖David Todem, Michigan State University; Kyung Mann Kim, University of Wisconsin-Madison; Jason P. Fine, University of Wisconsin-Madison

4:20 p.m. **Methods on Longitudinal Data with Dropouts and Mismeasured Covariates—**❖Grace Y. Yi, University of Waterloo

4:35 p.m. **Semiparametric Analysis of Longitudinal Data with Potential Right Censoring—**❖Mengling Liu, New York University School of Medicine; Zhiliang Ying, Columbia University

4:50 p.m. **A Multiple Imputation Approach for Responders Analysis in Longitudinal Studies—**❖Liqiu Jiang, North Carolina State University; Kaifeng Lu, Merck & Co., Inc.; Anastasios A. Tsiatis, North Carolina State University

5:05 p.m. **Estimation of Transition Probabilities in a Discrete-Time Markov Chain with Missing Observations—**❖Hung-Wen Yeh, The University of Texas School of Public Health; Wenyaw Chan, The University of Texas School of Public Health

5:20 p.m. **Nonparametric Comparison of Two Survival Functions with Dependent Censoring via Nonparametric Multiple Imputation—**❖Chiu-Hsieh Hsu, University of Arizona; Jeremy M. G. Taylor, University of Michigan

5:35 p.m. **Multivariate One-Sided Hypotheses Testing with Complete or Incomplete Data—**❖Tao Wang, The University of British Columbia; Lang Wu, The University of British Columbia

Regular Contributed Posters 4:00 p.m.–5:50 p.m.

75 CC-Level 6 East Lobby
Contributed Posters—Contributed

Biometrics Section, Biopharmaceutical Section, General Methodology, Section on Nonparametric Statistics, Section on Physical and Engineering Sciences, Section on Survey Research Methods, Section on Quality and Productivity

Organizer(s): Maura E. Stokes, SAS Institute, Inc.

Chair(s): Maura E. Stokes, SAS Institute, Inc.

Biometrics, biostatistics, epidemiology

01 **Examining the Effect of Biomarkers in Terms of Pathological Compartmentalization and a Continuous Variable—**❖Irene Helenowski, Northwestern University; Edward F. Vonesh, Baxter Healthcare Corporation; Ryan J. Deaton, University of Illinois at Chicago; Borko Jovanovic, Northwestern University; Alfred W. Rademaker, Northwestern University; Sally A. Freels, University of Illinois; Vijayalakshmi Ananthanarayanan, University of Illinois at Chicago; Peter H. Gann, University of Illinois at Chicago

Clinical trials, drug discovery

02 **Minimum Sample Size in Control Group When Comparing Efficacy Rate with Several Treatment Groups—**❖Alan Davis, Pharmanet; Inder J. Sharma, Sharma Associates, Inc.

03 **Exploring the Relationship between Extended Oral Anticoagulant Therapy after a First Episode of Venous Thrombosis and Mortality Using Meta-analysis—**❖Brianna Miller, The University of Oklahoma

04 **Interval Estimation of Binomial Proportion in Clinical Trials with a Two-Stage Design—**❖Chen Chia Min, National Cheng Kung University

05 **GLUMIP 2.0: Free SAS/IMLÆ Software for Planning Internal Pilots—**❖John Kairalla, The University of North Carolina at Chapel Hill; Christopher S. Coffey, The University of Alabama at Birmingham; Keith E. Muller, The University of North Carolina at Chapel Hill

06 **Stroke Clinical Trials and Response-Adaptive Randomization: an Ideal Match—**❖Yuko Palesch, Medical University of South Carolina; Amy Bardeen, Medical University of South Carolina; Renee Martin, Medical University of South Carolina

07 **Multivariate Applications in Systems Biology—**❖Amber Anderson, GlaxoSmithKline; Zhu Lei, GlaxoSmithKline; Edit Kurali, GlaxoSmithKline; Amit Bhattacharyya, GlaxoSmithKline; Kwan Lee, GlaxoSmithKline; Michael Durante, GlaxoSmithKline

08 **Comparing the Performance of Three Asymptotic Methods in Estimating the Sample Size for a Therapeutic Equivalence Study Based on Difference of Proportions—**❖Xiaoning Li, The University of Oklahoma Health Sciences Center; Sara K. Vesely, The University of Oklahoma Health Sciences Center

09 **Recent Development in Exact Inference for Parallel Group Design with Repeated Binary Measurements—**❖Dar-Shong Hwang, B.R.S.I.; James Lee, Sankyo Pharma Development

10 **Issues of Covariate Adjustments in Clinical Trials—**❖Moh-Jee Ng, U.S. Food and Drug Administration; Tie-Hua Ng, U.S. Food and Drug Administration

11 **Can We Recruit Additional Subjects for a Failed Study?—**❖Paul Hshieh, U.S. Food and Drug Administration; Tie-Hua Ng, U.S. Food and Drug Administration

Incomplete data analysis, imputation methods

12 **Multiple Imputation by Chained Equations: Predictive Mean Matching—**❖Gerald Kolm, Emory University; Deborah Ehrenthal, Christiana Care Health System; Edward Ewen, Christiana Care Health System

13 **Weighted Logrank-Type Tests Based on Doubly Truncated Data—**❖Su Pei Fang, National Cheng Kung University

14 **Kernel-Assisted EM Algorithm—**❖Suzanne Dubnicka, Kansas State University

Pharmacokinetics and pharmacodynamics

15 **The Analysis of Mixed-Effects Compartmental Systems Using Bayesian and non-Bayesian Methods—**❖Yi Wang, University of Nebraska-Lincoln; Kent M. Eskridge, University of Nebraska-Lincoln; Shunpu Zhang, University of Nebraska-Lincoln

Reliability and survival modeling

16 **An Application of Accelerated Lifetime Design/Analysis for Estimating the Lifetime of CDs and DVDs—**❖James J. Filliben, National Institute of Standards and Technology; Adriana Hornikova, National Institute of Standards and Technology; Frederick R. Byers, National Institute of Standards and Technology

17 **Parametric Distance Estimators versus Maximum Likelihood Estimators in Estimating Quantiles with Misclassified Data—**❖Elliott Nebenzahl, California State University, East Bay; Dean Fearn, California State University, East Bay

18 **A Hyperbolastic Model for Survival Data—**❖Zoran Bursac, University of Arkansas for Medical Sciences; Mohammad Tabatabai, Cameron University; David K. Williams, University of Arkansas for Medical Sciences; Karan P. Singh, University of North Texas Health Science Center

19 **Survival Analysis on Recurrent Event Data: an Application to Alcoholism Study—**❖Jian Han, Bristol-Myers Squibb Company

20 **Exact Test for an Epidemic Chance in a Sequence of Exponentially Distributed Random Variables—**❖Ping Shing Chan, The Chinese University of Hong Kong; Kim Fung Lai, The Chinese University of Hong Kong

Semiparametric and nonparametric methods

21 **Locally Efficient Estimators for Semiparametric Models with Measurement Error**—❖Yanyuan Ma, Texas A&M University; Raymond J. Carroll, Texas A&M University

22 **A Graphical Method for Testing the Equality of Regression Curves**—❖Kee-Hoon Kang, Hankuk University of Foreign Studies; Cheolwoo Park, University of Georgia

23 **A Permutation Test for Compound Symmetry**—❖Tracy Morris, Oklahoma State University; Mark Payton, Oklahoma State University

Regular Contributed Posters 8:00 p.m.–9:50 p.m.

76 CC-Level 6 East Lobby

Contributed Poster Session with Opening Mixer: a Look at the Richness of Statistical Interests—Contributed

ENAR, Section on Statistical Computing, Section on Statistics in Epidemiology, Biometrics Section, Biopharmaceutical Section, Business and Economics Statistics Section, General Methodology, Section on Government Statistics, Section on Physical and Engineering Sciences, Social Statistics Section, Section on Survey Research Methods, Section on Statistical Education, Section on Statistics and the Environment

Organizer(s): Maura E. Stokes, SAS Institute, Inc.

Chair(s): Maura E. Stokes, SAS Institute, Inc.

Bayesian statistics, hierarchical models

01 **A Bayesian Approach to Semicontinuous Longitudinal Data**—❖Bing Han, The Pennsylvania State University; Wei Huang, Temple University

Biometrics, biostatistics, epidemiology

02 **Survival Instantaneous Log-Odds Ratio from Empirical Functions**—❖JungAh Jung, Novartis Pharmaceuticals Corporation; J. Wanzer Drane, University of South Carolina

03 **LTAS.NET: a NIOSH Life Table Analysis System for the Windows Environment**—❖Mary Schubauer-Berigan, National Institute for Occupational Safety and Health; William R. Raudabaugh, Constella, Inc.; Avima Ruder, National Institute for Occupational Safety and Health; Misty Hein, National Institute for Occupational Safety and Health; Sharon R. Silver, National Institute for Occupational Safety and Health; Patricia Laber, National Institute for Occupational Safety and Health; Kathleen Waters, National Institute for Occupational Safety and Health; Jinghui Liu, Westat; Steven Spaeth, Kyle Steenland, Emory University

04 **Estimating Lifetime Prevalence Using Data from Disease Registries**—❖Limin X. Clegg, National Cancer Institute

05 **Epidemiology of Herpes Zoster (Shingles)**—❖Peter Wollan, Olmsted Medical Center; Patricia Saddier, Merck Research Laboratories; Lina Sy, Merck Research Laboratories; Barbara P. Yawn, Olmsted Medical Center

Business, financial, marketing statistics

06 **What We Know about Unsuccessful and Successful High-Risk R&D Projects and What We Can Learn from Them**—❖Stephanie Shipp, National Institute of Standards and Technology

Clinical trials, drug discovery

07 **Data Simulation Methodologies for Determining Sample Size Requirements To Test Gene-Drug Interactions in Genetically Pre-Screened Populations**—❖Kimberly Lowe, University of Arizona College of Public Health; James Ranger-Moore, University of Arizona College of Public Health; Patricia Thompson, Arizona Cancer Center

Computational statistics, numerical methods

08 **Wavelet-Based Functional Mixed Model Data Analysis: Computational Considerations**—❖Richard Herrick, M. D. Anderson Cancer Center; Jeffrey S. Morris, M. D. Anderson Cancer Center

Engineering and physical sciences, chemometrics

09 **Hierarchical Bayesian Calibration of Untested Devices**—❖Reid Landes, University of Arkansas for Medical Sciences

Environmetrics, ecology, agriculture, wildlife management

10 **Strip Transect Sampling To Estimate Object Abundance in Homogeneous and Nonhomogeneous Poisson Fields: a Simulation Study of the Effects of Transect Width and Number**—❖Timothy C. Coburn, Abilene Christian University; Sean A. McKenna, Sandia National Laboratories; Hirotaka Saito, University of California, Riverside; Orlando T. Garcia, Sandia National Laboratories

General

11 **The Impact of Computer Programming Languages on Statistics**—❖Morteza Marzjarani, Saginaw Valley State University

Genetics, bioinformatics, computational biology

12 **Analyzing a Metabolomics Dataset**—❖Teresa Norris

13 **Inferring Quantitative Trait Loci Using a Bayesian Variable Selection Model and Markov Chain Monte Carlo Convergence Diagnostics**—❖Daniel Shriner, The University of Alabama at Birmingham; Nengjun Yi, The University of Alabama at Birmingham

14 **Estimating p-Values in Small Microarray Experiments**—❖Hyuna Yang, The Jackson Lab; Gary Churchill, The Jackson Lab

15 **Multivariate Simulation of Gene Expression Data**—❖Rudolph Parrish, University of Louisville; Horace J. Spencer, University of Arkansas for Medical Sciences

Government statistics

16 **Treating Breaks in Time Series in the Current Employment Statistics State and Area Program**—❖James White, Bureau of Labor Statistics; Kenneth Shipp, Bureau of Labor Statistics

Linear models, GLMs, parametric methods

17 **On the Likelihood Ratio Test for the Numbers of Factors in Exploratory Factor Analysis**—❖Kentaro Hayashi, University of Hawaii at Manoa; Peter M. Bentler, University of California, Los Angeles; Ke-Hai Yuan, University of Notre Dame

Longitudinal data, repeated measurements, cluster data

18 **GEE Models for Longitudinal Analysis of Long-Term Occupational Radiation Exposures in Russian Nuclear Workers**—❖Adina Soaita, University of Pittsburgh; Ada O. Youk, University of Pittsburgh; Richard Day, University of Pittsburgh; Tamara Azizova, Southern Ural Biophysics Institute; Niel Wald, University of Pittsburgh; Mike Kuniak, University of Pittsburgh; David M. Slaughter, University of Utah; Carol K. Redmond, University of Pittsburgh

19 **Antioxidant Use Predicts Transitions to Amnestic MCI and Dementia**—❖Marta Mendiondo, University of Kentucky; Richard J. Kryscio, University of Kentucky; Fred A. Schmitt, University of Kentucky

20 **Structural Nested Mean Models for Assessing Time-Varying Effect Moderation: a Comparison of Two Estimation Methods**—❖Daniel Almirall, University of Michigan

Neuroscience, brain imaging

21 **Methods for Assessing Changes in the FMRI Visual Field Map after Surgery**—❖Raymond G. Hoffmann, Medical College of Wisconsin; Paul Savarapian, Marquette University; Mary Jo Maciejewski, Medical College of Wisconsin; Edward A. DeYoe, Medical College of Wisconsin; Daniel Rowe, Medical College of Wisconsin

Sampling and survey methodology

22 **Design-Based versus Model-Based Methods: a Comparative Study Using Longitudinal Survey Data**—❖Sunita Ghosh, University of Saskatchewan; Punam Pahwa, University of Saskatchewan; Geert Molenberghs, Limburgs Universitair Centrum

23 **Hierarchical Generalized Linear Models for Data from Complex Sampling Designs**—❖Prabhu Bhagavatheeswaran, Southern Methodist University; Ian Harris, Southern Methodist University

Social and behavioral science

24 **Mediation Analysis with Multilevel Data**—❖Jungwha Lee, Institute for Health Research and Policy; Eisuke Segawa, Institute for Health Research and Policy; Sue Curry, University of Illinois at Chicago

Spatial statistics, time series, spatio-temporal modeling

25 **The Application of the Kalman Filter to Nonstationary Time Series through Time Deformation**—❖Zhu Wang, Fred Hutchinson Cancer Research Center; Henry L. Gray, Southern Methodist University; Wayne A. Woodward, Southern Methodist University

Teaching, training, consulting

26 **Is It Normal? A Simulation Study of Properties of Some Normality Tests**—❖Daniel M. Sultana, California State University, East Bay; Charlyn J. Suarez, California State University, East Bay; Bruce E. Trumbo, California State University, East Bay; Eric A. Suess, California State University, East Bay

27 **Classroom Simulation: False Indications of Ouliers in Boxplots of Normal Data**—❖Bruce E. Trumbo, California State University, East Bay; Eric A. Suess, California State University, East Bay; Jacob Colvin, California State University, East Bay