
Statfax

Volume 13 Issue 1

Northeastern Illinois Chapter of the American Statistical Association

Spring 1998

Don't Miss Our Spring Program!

The spring meeting on Thursday, April 9 at the Sheraton North Shore will feature talks on three diverse topics. Please register by 4 pm on Thursday, April 2.

Dr. Kewei Pu, a Research Statistician from Baxter Healthcare Corporation, will present a talk entitled "A Unified Approach for Superiority and Equivalence Tests."

The primary objective of Dr. Pu's presentation is to propose a new unified approach for superiority and equivalence studies. A critical review of the traditional approach of hypothesis testing and its limitations/shortcomings will be discussed. Sample size calculations will be discussed in accordance with the unified approach.

Dr. Pu received his doctoral degree in Statistics and Design of Experiments from the University of Illinois at Chicago in 1989 and joined the Applied Statistics

Center at Baxter Healthcare the same year. He has published several papers in a variety of statistical journals.

Next, Phil Pichotta of Abbott Laboratories will discuss "Results of the 1996 ASA Biopharmaceutical Section Membership Survey."

The results of the 1996 survey of the members of the ASA Biopharmaceutical Section will be presented. The survey was completed by 64% of the 1770 members. The survey was conducted to collect information about demographics, education, salary and employment characteristics (including rating of problems such as gender/sex and racial bias), and continuing education activities to update statistical skills.

The survey provided much information about Biopharmaceutical

Section membership and the results will aid in providing services and continuing education activities for Biopharmaceutical Section members and statisticians in general.

Mr. Pichotta is the Membership Chair of the Biopharmaceutical Section of the ASA. He is currently President-Elect and Program Chair of the NIC, and also has served as Chapter Secretary. He is currently employed as a Senior Statistician at Abbott Laboratories and has over 24 years of experience in the pharmaceutical industry. He did graduate work at Virginia Polytechnic Institute & State University.

The third speaker in the program is Dr. Viswanath "Devan" Devanarayan, also of Abbott Laboratories.

SEE TALKS, PAGE 2

What's for Lunch?

The luncheon menu for the meeting is indicated below. If you have any special dietary needs or prefer an alternative meal, please specify on the registration form or contact Donna Kowalski via phone or email.

APPETIZER: Caesar Salad, Rolls and Butter
ENTREE: Grilled Breast of Chicken, Chardonnay sauce, Julienne Vegetable Garnish
DESSERT: New York Cheesecake with Strawberry Sauce
BEVERAGES: Regular/Decaf Coffee, Hot/Iced Tea

At the luncheon, if an attendee orders an entree, dessert, or drink which has not been prearranged through Donna Kowalski, then NIC/ASA will bill the attendee appropriately.

-Audrey Hutchcraft

BOOK GIVEAWAY!!

The Awards & Recognition Committee will recognize the importance of attending our chapter meetings by awarding a new statistics book at each meeting to a registered participant who will be selected under a SRS(N,1) sampling plan. (N is the number of registered participants who have completed a meeting registration form and are present at the time of the drawing.)

The random drawing will be performed by the chair of the Awards & Recognition Committee and a volunteer from the audience.

- Sam Hedayat

President's Report

In 1998, we plan to continue and expand upon past chapter activities, and we hope to surpass even the record attendances and membership numbers from 1997. As an example, we will continue at the April 9 meeting our recently instituted policy of raffling off a book of statistical interest among meeting attendees. The book for April 9 has not yet been selected, but we will try to make it relevant to the meeting's program.

Here is a brief update on the officers and committees responsible for working towards the above goal.

The Program Committee is chaired this year by President-Elect Phil Pichotta. Interesting ideas for our programs have already been discussed in detail, as evidenced by the speakers/topics lined up for the April 9 meeting, which are discussed elsewhere in this newsletter.

Donna Kowalski has assumed the duties of Treasurer in addition to maintaining her previous role as chair of the Membership Committee, and we appreciate her willingness to perform two major chapter functions at the same time.

Thanks to Molly Walsh for serving as Newsletter Editor for the current issue.

Borko Jovanovic has volunteered to take over this role for the remainder of the year.

Returning members of the Executive Committee not mentioned above, whose extensive collective experience is a valuable asset to our chapter, include Imke Janssen (last year's Treasurer, who is demonstrating her versatility by serving instead as Secretary this year), Audrey Hutchcraft (Arrangements), Sam Hedayat (Awards and Recognition), Paul Coe (Community Activities), Lawrence Lin (Outreach), and myself.

We welcome new ideas, involvement, and active participation from any NIC member. Please feel free to convey ideas or concerns to any of the people mentioned above, whose contact information can be found elsewhere in this newsletter.

Our web page (<http://homepage.interaccess.com/~mlcarn/nic.htm>) is still being maintained by its creator, Mike Carniello, our president in 1996. We anticipate that it will be updated with the most current information within the next few days.

-Art Roth

CONTINUED FROM PAGE 1

He will give a presentation entitled, "Remeasurement Methods for Nonlinear Measurement Error Models."

Cook & Stefanski (1994, JASA) introduced a novel, computer-intensive estimation procedure for measurement error models, called SIMEX, for simulation and extrapolation. This method is referred to as parametric SIMEX because data with additional amounts of measurement error (pseudo data) are generated via simulation from a parametric family of distributions.

A different version of the SIMEX method, "empirical SIMEX," is proposed, where the pseudo data are generated without the aid of a parametric model. The empirical SIMEX method automatically handles the inherent homogeneity or heterogeneity of the measurement error variances and therefore does not require any assumptions on the measurement error variance structure.

The parametric and empirical SIMEX methods are referred to as remeasurement methods; they are similar in flavor to resampling methods such as the jackknife and bootstrap.

Dr. Devanarayan will give a brief introduction to measurement error models and describe the SIMEX algorithm. He will outline a few important results and illustrate the application of these methods to data from the Framingham Heart Study. Finally, he will present an interesting perspective of the jackknife and bootstrap which would elucidate the link between the resampling and remeasurement methods.

He received a PhD in Statistics from North Carolina State University in 1996. He has been employed as a statistician in support of clinical pharmacokinetic studies at Abbott Laboratories for the past 2 years.

Don't miss this excellent program! Please register

Statfax is published three times a year, in Spring, Summer and Fall, by the Northeastern Illinois Chapter of the American Statistical Association.

Please send address changes to:

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email: dlkowa@searle.monsanto.com

The Chapter's purpose, as stated in its Constitution, is "to foster statistics and its applications and promote the interests of the statistical profession...". Accordingly, diverse views are presented. They do not necessarily reflect the opinions of the officers or the policies of the chapter.

May Day for Missing Data!

The Chicago Chapter of the ASA is pleased to announce a conference on Statistical Analysis with Missing Data to be held on May 1, 1998.

Invited speakers include Rod Little (University of Michigan), Joe Schafer (Penn State University), Nancy Cook (Harvard Medical School), and David Judkins (Westat, Inc.). Additionally, representatives from software companies SOLAS and SPSS will present use of their programs for missing data.

For more information contact Don Hedeker (312-996-4896; hedeker@uic.edu) or consult the chapter website at <http://www.ChicagoASA.org/>.

Treasurer's Report (01/01/98)

Balance 1/1/97	\$5,423.07
INCOME 1997	
1997 Spring Meeting/Memberships	2,626.50
1997 Summer Workshop/Memberships	5,887.00
1997 Fall Meeting/Memberships	1,946.00
Advance Payments for 1998 Memberships	10.00
Donation	5.00
Bank Interest	139.82
Total Income	\$10,614.32
EXPENSES 1997	
1997 Spring Meeting	2,108.90
1997 Summer Workshop	6,330.99
1997 Fall Meeting	1,830.91
Mailing (Spring Newsletter)	37.12
Mailing (Bulk Mailing Permit)	85.00
Mailings (Summer Newsletter and Workshop)	188.89
Mailing (Fall Newsletter)	80.00
Mailing (Directory)	23.04
Microsoft Publisher Software	80.99
Total Expenses	\$10,765.84
Balance 1/1/98	\$5,271.55

1997 Membership: 199 (185 regular, 14 student)

1998 Membership: 4 (prepaid)

-Imke Janssen

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JOIN US ON THE WEB!

Remember to check out the NIC-ASA homepage on the internet, at :

<http://homepage.interaccess.com/~mlcarn/nic.htm>

Special thanks to Mike Carniello, for his devoted effort in updating the homepage.

Statfax/Meeting Notices are available either in hard copy (laid out with graphics) or via email (text only, but delivery faster, more reliable, and free to NIC). For future issues, if you would like to receive the opposite version instead of the one you are now reading, please notify the membership chair/treasurer.

Directions to the Meeting

Directions to the Sheraton North Shore, 933 Skokie Boulevard, Northbrook, IL:

From O'Hare: I-90 to I-294 North to Willow Road. Exit Willow Road East (turn right) to Sunset Ridge Road (approximately 4.5 miles). Turn left on Sunset Ridge Road. Go two miles to the end of the street. Hotel is straight ahead.

FROM 94-Chicago: I-94 West to Dundee Road. Exit West. Turn left on Skokie Boulevard. Hotel

is one block south on the left.

From 41 North: Route 41 to Lake Cook Road. Exit at Lake Cook Road. Go West (right turn) on Lake Cook Road. Take Lake Cook Road to first light (Skokie Boulevard). Turn left on Skokie Boulevard. Travel 1.5 miles; the hotel is on the left.

From Route 53: Route 53 to Dundee Road. Exit and go east 10 miles (right turn on Dundee) to Skokie Boulevard. Turn right. Hotel is on the left. From 94-Wisconsin: I-94 South through Deerfield Toll Plaza. After exiting Toll Plaza, stay in the left two lanes. (Sign says "94 East to Chicago Edens Expressway.") Take 94 to Waukegan Road exit. Go to the next light (Dundee Road). Turn left on

If you cannot attend the meeting but would like to join the Chapter, please complete the following application and send a check for \$5.00, payable to **Northeastern Illinois Chapter, ASA** to Donna Kowalski, Statistics Department A-1E, G. D. Searle and Co., 4901 Searle Parkway, Skokie, IL 60077.

APPLICATION FOR MEMBERSHIP - NORTHEASTERN ILLINOIS CHAPTER, ASA

NAME _____
DEPARTMENT _____
COMPANY/INSTITUTION _____
STREET _____
CITY /STATE/ZIP _____
PHONE NUMBER _____
E-MAIL ADDRESS _____

The above address & phone number are for _____ Work _____ Home
Send my newsletters/meeting notices via _____ Email _____ U.S. mail
Full-time Student? _____ Yes _____ No

Tax Identification Number 52-1665956

Meeting Notice

Northeastern Illinois Chapter American Statistical Association

DATE: Thursday, April 9, 1998
LOCATION: Sheraton North Shore, 933 Skokie Blvd., Northbrook, IL (See directions on reverse side.)
RESERVATIONS: Advanced reservations are required and must be received by **4 p.m., Thursday, April 2.**
Cancellations cannot be accepted after the above date, and "no shows" will be billed.
Registration is transferable except for the \$5 in membership dues (\$1 for students) that
are included in the non-member fees.
FEES:

	Luncheon & Sessions		Sessions Only	
	Member	Non-member	Member	Non-member
Regular	\$35.00	\$40.00	\$15.00	\$20.00
Full-time Student	\$ 6.00	\$ 7.00	no charge	\$ 1.00

Since membership is held on a calendar year basis, if you have not expressly joined the chapter this year, you should pay the non-member rate. Doing so will make you a member for 1998.

PAYMENT: Make checks payable to: Northeastern Illinois Chapter, ASA
REGISTRATION FORM: Please mail the registration form (below) to Donna Kowalski, Statistics Department A-1E, G. D. Searle and Co., 4901 Searle Parkway, Skokie, IL 60077. Or register by calling (847)982-8533 or emailing <donna.l.kowalski@monsanto.com>.

PROGRAM:

11:30 am	Registration
12:00 pm	Lunch
1:00 pm	Business Meeting
1:10 pm	Kewei Pu, PhD <i>A Unified Approach to Superiority and Equivalence Tests</i>
2:05 pm	Phil Pichotta <i>Results of the 1996 ASA Biopharmaceutical Section Study</i>
3:00 pm	Break
3:15 pm	Viswanath Devanarayan, PhD <i>Remeasurement Methods for Nonlinear Measurement Error Models</i>

NORTHEASTERN ILLINOIS CHAPTER MEETING REGISTRATION

Name _____
Please Name for meeting badge (if different) _____
Department _____
Print Company _____
Street _____
City _____ STATE _____ ZIP _____
Phone(____) _____
E-mail address _____

The above address & phone number are for _____Work _____Home
Send my newsletters/meeting notices via _____Email _____U.S. Mail
Full-time Student? ___Yes ___No Tax ID Number 52-1665956

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