

Spring 2005 Meeting Notice
Northeastern Illinois Chapter
American Statistical Association

DATE: Thursday, March 10, 2005 (Luncheon at 11:30 a.m.)

LOCATION: Wyndham Glenview Suites, 1400 Milwaukee Avenue, Glenview, IL 60025. (Tel. 847-803-9800).

RESERVATIONS: Advance reservations are required and must be received by 4 p.m., Thursday, March 3, 2005. Cancellations cannot be accepted after this date, and "no shows" will be billed. Registration is transferable except for the \$5 in membership dues (\$1 for students) that is included in the non-member fees.

FEES:	Luncheon & Sessions		Sessions Only		NIC
	Member	Non-Member	Member	Non-Member	Membership Only
Regular (Corp./Govt.)	\$55.00	\$60.00	\$30.00	\$35.00	\$5.00
Academic (Univ./H.S.)	\$45.00	\$50.00	\$20.00	\$25.00	\$5.00
Full-time Student	\$11.00	\$12.00	no charge	\$1.00	\$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 2005.

PAYMENT: Make checks payable to: Northeastern Illinois Chapter, ASA

REGISTRATION: Please mail, e-mail or fax (no call-ins please) the registration form (below) to:

Jimmy Sun	
D-07B2 AP5N	Phone: (847) 937-9776
Abbott Laboratories	Fax: (847) 935-3320
100 Abbott Park Road	Email: jimmy.sun@abbott.com
Abbott Park, IL 60064-3500	

PROGRAM:

- 11:00 – 11:30 Registration
- 11:30 – 12:30 Luncheon
- 12:30 – 13:30 Speaker: Dulal Bhaumik – Confidence Regions for Random-Effects
- 13:30 – 13:45 Break
- 13:45 – 14:45 Speaker: Robert (Skip) Woolson - Data Safety and Monitoring Boards: Some Personal Perspectives
- 14:45 – 15:00 Break
- 15:00 – 16:00 Speaker: Thomas Moritz – VA Cooperative Study #364
Long term patency of saphenous vein and left internal mammary artery grafts after coronary artery bypass surgery

NORTHEASTERN ILLINOIS CHAPTER MEETING REGISTRATION/MEMBERSHIP DUES

Name _____

Company _____ Department _____

Street Address _____ Work _____ Home _____

Telephone (____) _____ Work _____ Home _____ E-mail address _____

I will be attending: Luncheon and Sessions Sessions only Membership Dues Only

2005 NIC/ASA member prior to this registration? (See FEES for details) Yes No

Membership Type: (1) Regular (Corp./Govt.); (2) Academic (Univ./H.S.); (3) Full-Time Student

Tax Identification Number 52-1665956

Confidence Regions for Random-Effects: Calibration Curves with Heteroscedastic Errors

Confidence bounds are constructed for a random-effects calibration curve model. An example application is analysis of analytical chemistry data in which the calibration curve contains measurements y for several values of known concentration x in each of q laboratories. Laboratory is considered a random-effect in this design, and the intercept and slope of the calibration curve are allowed to have laboratory-specific values. This presentation focuses on: (i) develop an appropriate inter-laboratory calibration curve for heteroscedastic data of the type commonly observed in analytical chemistry, (ii) compute a point estimate for an unknown true concentration x when corresponding measured concentrations $y_1, y_2, \dots, y_{q'}$ are provided from q' laboratories (i.e., a subset of the original q laboratories used to calibrate the model, where $1 < q' < q$), (iii) compute the asymptotic mean and variance of the estimate, (iv) construct a confidence region for x . The methods are then illustrated using both simulated and typical inter-laboratory calibration data. Other relevant applications of the general approach will be highlighted.

Dulal Bhaumik, Ph.D.,
Center for Health Statistics
University of Illinois at Chicago

Dr. Dulal Bhaumik is presently an Associate Professor of Biostatistics and Psychiatry at the University of Illinois at Chicago (UIC). He joined UIC in September 2002 after 12

years of teaching and research at the University of South Alabama Department of Mathematics and Statistics. He obtained his Master's degree in Statistics from the Indian Statistical Institute in 1983 and his Ph.D. in Statistics from the University of Maryland (UMBC) in 1988. In 2002, he won the American Statistical Association's Youden Prize for Contributions to Interlaboratory Calibration. Dr. Bhaumik has over 25 peer-reviewed publications including articles in the Journal of the Royal Statistical Society, Journal of the American Statistical Association, and Technometrics. He is also Co-Principal Investigator for several current NIH/NIMH funded research projects.

Data Safety and Monitoring Boards: Some Personal Perspectives

Safety and Monitoring Boards (DSMB's) are often appointed for the purpose of reviewing interim data during the course of a randomized clinical trial. Such boards are charged with reviewing accumulating evidence to see if there is sufficient evidence to conclude a trial on the basis of benefit, lack of benefit, or if there is undue harm to study participants. Such DSMB's have held a prominent place in the conduct of federally sponsored trials, for example NIH, VA and related funding agencies. DSMB's are also common in corporate sponsored trials, particularly those sponsored by pharmaceutical corporations. Indeed, common practice today within any academic health center is for a data safety and monitoring plan to be in place for a clinical

study, and for a clinical trial this data safety and monitoring plan would be to have a DSMB with formal guidelines for consideration of early trial termination.

Biostatisticians have the opportunity to serve on DSMB's, or to be one of the key liaisons between a study and an external DSMB. This presentation discusses general issues, challenges and personal experiences in the context of DSMB.

Robert F. Woolson, Ph.D.
Department of Biostatistics,
Bioinformatics & Epidemiology
Medical University of South Carolina

Dr. Robert F. Woolson is presently Professor of Biostatistics, Bioinformatics and Epidemiology at the Medical University of South Carolina (MUSC) in Charleston, and Professor Emeritus of Biostatistics and Statistics at University of Iowa (UI). He joined MUSC in August of 2002 after concluding 29 years on the medical school/public health school faculty at UI. At UI he was Professor and Head of Biostatistics and Associate Dean for Research for the UI College of Public Health.

Dr. Woolson conducts both collaborative clinical research and biostatistical methodologic research. At UI he founded and directed the Clinical Trials Statistical Data Management Center, which continues to serve as a resource for the design, conduct, coordination, and statistical analysis of multi-center clinical trials. He was principal investigator for several large NINDS grants to coordinate multi-center trials as well as statistical methodology grants—TOAST, IHAST, COSS (planning grant).

Dr. Woolson served on the VA Cooperative Studies Evaluation Committee for six years and served a term as a member of the NIAID Data Safety & Monitoring Board for AIDS Therapeutic Trials Program. At the present

time he is a member of several DSMB's including: the NIAID Hematopoietic Stem Cell Transplant program; and for VA Cooperative Study # 526, a trial evaluating thyroid hormone for heart failure. He has also served on DSMB's for a number of corporate trials, mostly trials involving potential stroke therapies. His methodological research interests include longitudinal data analysis, survival analysis, and clinical trial / epidemiological methods. His statistical research grants have been supported by the National Institute of Mental Health and the National Cancer Institute. Dr. Woolson has mentored numerous K30, K08 and other clinical research trainees, as well as graduate students; and faculty. He is an ASA Fellow, is presently on the editorial board for *Statistics In Medicine*, and previously served as an associate editor for *Controlled Clinical Trials* and for *Statistical Methods for Medical Research*.

VA Cooperative Study #364:
Long term patency of saphenous vein and left internal mammary artery grafts after coronary artery bypass surgery

The VA Cooperative Studies Trial defined long-term (ten-year) saphenous vein graft (SVG) and left internal mammary artery (IMA) patency in patients undergoing coronary artery bypass graft (CABG) surgery. Traditionally, reports of long-term graft patency rates have used coronary angiography results from a single time point after CABG. Patency rates from a single time period distant from the original operation may result in biased estimates if there is no accounting for interceding interventions such as repeat coronary surgery, percutaneous coronary intervention or death. In this study, patients had between 1 and 5 serial angiograms.

The data from this study posed two major analytic problems. The first problem was that the exact time of graft occlusion could not be known. This problem is addressed by using interval-censored observations in the survival analysis (PROC LIFETEST in SAS®). This analysis requires identification of the time interval in which the occlusion occurred. Comparisons of Kaplan-Meier product-limit survival curves were made with the log-rank test. Although time-related analyses of graft patency data used the exact date of each postoperative angiogram, for convenience of presentation, some information is presented in arbitrarily defined time frames. The second analytic problem was related to the fact that there were multiple grafts, i.e., clustered observations, within a patient. It has previously been demonstrated that graft patency within a patient is not independent. This does not affect the estimates for patency rates, but does cause the standard error terms to be underestimated. Recently, the SAS® macro, IWM, has become available for the analysis of clustered, interval-censored survival data. This approach produces robust estimates of the standard error terms by adjusting for the correlated nature of the clustered observations. Patient-related risk variables, graft-related risk variables and CABG surgery processes of care variables were used as candidate independent variables in the IWM macro to identify the set of variables that jointly predict ten-year graft patency.

Thomas Moritz, M.S.
Hines Veterans Affairs Hospital

Thomas Moritz is presently a Biostatistician in the Cooperative Studies Program Coordinating Center at Hines Veterans Affairs Hospital. He obtained a B.S. in Mathematics at Marquette University and M.S. degrees in Applied Statistics and Biostatistics at Iowa State University and the

Medical College of Wisconsin, respectively. During his 20 year tenure at the Hines Coordinating Center he has managed studies in lung and colon cancer, pulmonary disease, liver disease, cardiac surgery and vascular surgery. He has over 50 publications and has also presented at the Society of Clinical Trials and NIC/ASA meetings.

~ Jeffrey Isaacson

President's Report

As the holiday season is behind us, we now are looking forward to another year of excellent programming provided by our Northeastern Illinois Chapter of the American Statistical Association (NIC-ASA)! As president, I am privileged to be working with such capable and dedicated individuals who are serving our membership and community.

For those people who were unable to attend the Fall Chapter Meeting, I would like to introduce you to our Chapter Officers for 2005. Bala Hosmane our Past President remains our Chapter Representative, and I am the new President. NIC would like to thank Bala for his dedication and I anticipate that his guidance will be invaluable to me in my new position. Jimmy Sun and Coleen Hall have graciously agreed to continue as Treasurer and Secretary, respectively. Also, I want to thank our outgoing Past-President Richard Rode for his unremitting commitment to our chapter which we greatly appreciate.

We want to extend a warm welcome to Jeffrey Isaacson, who has accepted the position of President Elect/Program Chair. We are assured of another successful year of programs with the thoughtful planning of our Program Committee spearheaded by Jeff.

The Chapter acknowledges the generous donation of time and effort from our

Executive Committee members Sam Hedayat (Awards and Recognition), Chris Sullivan and Peter Yu (arrangements), Anita Ross and Yang Shen (Newsletter Editor/Associate), Carole Bennett and Paul Coe (Community Activities), Jamie Delgado (Membership), Paul Cernohous (Webmaster) and Richard Rode (Workshop Distribution).

The rising costs of both meeting rooms and luncheons continue to be a challenge to our Chapter's financial stability. The Executive Committee reviewed the budget and noted that some workshops and meetings produced negative cash flows. Thus to remain solvent, the Executive Committee has decided to increase in our meeting fees by \$5.00 for both regular and academic attendees. Also, the committee is considering alternative meeting places that are less costly such as the University of Illinois at Chicago(UIC). Our concern is that our meetings must be held in locations that are easily accessible to everyone and affordable to our membership. We welcome comments and suggestions from you regarding this matter.

Last year, the Chapter sent a survey questionnaire to our membership. In response to your request for a future workshop on *survival analysis*, NIC has scheduled its 21st Annual Summer Workshop on this topic. This workshop will be conducted by Dr. Joseph Ibrahim on Thursday, June 2. Save the date!

We welcome and encourage both your active participation and your ideas. The future of our organization depends on your involvement. In this issue you will find a new section, "Getting Involved" listing various volunteer opportunities. Also, I urge all of you to consider volunteering this year.

The growing importance of statistical methods and data in our country's progress and well-being makes it crucial for users and practitioners to keep current and connected. Whether you are interested in continuing your

statistical education, networking, or helping to develop the next generation of statisticians, please continue to support our Chapter, NIC-ASA.

Best wishes for a healthy, happy, and productive New Year!

~ Renee Alpern

Treasurer's Report

BALANCE 01/01/2004	3,776.69
INCOME	
2004 Spring Meeting	1,905.00
2004 Summer Workshop	6,995.00
2004 Fall Meeting	2,075.00
Bank Interest (thru 08/31/2004)	9.28
Total Income	10,984.28
TOTAL ASSETS	14,760.97
EXPENSES	
Bank Charges	(28.58)
2004 Spring Meeting	(1,785.06)
2004 Summer Workshop	(5,947.90)
2004 Fall Meeting	(1,829.24)
Spring Presenter Expenses	(320.60)
Summer Presenter Expenses	(1,750.00)
Total Expenses	(11,661.38)
BALANCE 12/31/2004	3,099.59

~ Jimmy Sun

Community Activities

Every year our Chapter sends a team of judges to regional science fairs to review projects that are worthy of receiving our Chapter's *Best Use of Statistics in a Science Fair Project* award.

There are currently three fairs that we have an opportunity to be special judges at. It

requires only a few hours of participation in the morning and you do not need to do any least 4 members that could help us out at each event . You can volunteer for one or as many as you would like to come help with. We appreciate any help we can get and usually the members who come out have a good experience.

The dates and locations are listed below. If you are interested in any of them, please let me know at cbernett@ix.netcom.com. special preparation. It helps if we have at least 4 members that could help us out at each event.

- Region 2 Fair, Saturday, March 5th at the Museum of Science and Industry Chicago Illinois
- Region 6 Fair, Saturday, March 19th at Christian Liberty High School Arlington Heights
- Region 3 Fair, Friday April 1st at the Museum of Science and Industry Chicago Illinois

We meet at nine in the morning at the event site and are usually done by one in the afternoon. Thank s in advance. What a nice opportunity to help the chapter!

Please also look at the AP workshop update in the newsletter. A workshop is offered yearly by our chapter in conjunction with AP teachers in the Chicago area. Dorothy Dunlop is to be recognized for her contributions and hard work every year in organizing this.

~ Carole Bernett

Spring Meeting

The spring meeting will be held on March 10, 2005, at Wyndham Glenview Suites, 1400 Milwaukee Avenue, Glenview, IL 60025. The telephone number is 847-803-9800.

Directions to the hotel are available at www.mapquest.com.

If you have special needs, please contact:

- Peter Yu (847-236-2359; peter.yu@tappharma.com)
- Chris Sullivan (773-327-9607; csullivan@childrensmemorial.org).

~Chris Sullivan

Getting Involved

Below are a few opportunities to get involved in Chapter activities. If you have a particular interest or idea that is not listed, please contact the Chapter Secretary, Colleen Hall, at colleen.hall@abbott.com.

A volunteer is needed to meet and greet the speakers at the Spring Meeting. The volunteer will be asked to come at the start of the registration period so they can meet the Arrangements Chair, Chris Sullivan, and then watch for and welcome each of the speakers as they arrive. This person will make sure each speaker is shown the meeting room and AV set-up and is welcomed at a lunch table. This is a great way to help make sure our speakers know their time and effort is appreciated. If you are able to volunteer for this role, please e-mail Chris on or before February 20th at csullivan@childrensmemorial.org.

Each spring the Chapter participates in several Chicago area science fairs. Chapter members form teams of Special Judges to determine Awards for the Best Use of Statistics in a Science Fair Project. Several volunteers are needed for each fair to serve on the judging teams. Volunteers will meet the Community Activities Chair, Carole Bernett at the start of the fair and will then review the presentations prepared by students in grades 7 through 12. The judging team will reassemble after a few hours to discuss the

projects and determine the award winners. No advance preparation is required and past judges have found the students very appreciative of their time and interest. This year's fairs will be on Saturday, March 5th (Region 2), Saturday, March 19th (Region 6), and Friday April 1st (Chicago). The teams typically meet around 9 AM and finish before 1 PM. If you would like more information or are interested in participating on one or more of the judging teams, please e-mail Carole at cbernett@ix.netcom.com.

Four individuals will be needed to help with registration at the Summer Meeting. Volunteers will be asked to come about a half-hour before the start of the registration period and will work at the registration desk as directed by the Chapter Treasurer, Jimmy Sun. This is a great way to connect faces with names and to offer a quick "hello" to friends and colleagues who are attending. If you are interested, please e-mail Jimmy on or before May 15th at Jimmy.Sun@abbott.com.

~ Colleen Hall

Chapter Website

Don't forget to visit our Chapter web page at <http://www.amstat.org/chapters/NortheasternIllinois>. The website has lots of information about our Chapter, including events, program information, and contact information for Chapter officers and committee members. You can also peruse PDF versions of current and past Chapter newsletters. Finally, if the speaker provides them, slides/notes from previous presentations are available to view or download.

~Paul Cernohous

Chicago Chapter

The Northeastern Illinois Chapter of the ASA is only one of two ASA chapters in the Chicago metropolitan area. Regular meetings of the second chapter, Chicago, typically are on a monthly basis and include lunch and a single speaker. Meeting topics usually have less of a "biopharm" focus in comparison to NICASA speaker topics. Although in the past the Chicago Chapter has met exclusively in downtown Chicago; they have started to have some of their meetings at suburban locations. In addition to their monthly meetings, the Chapter organizes several workshops and special events each year. In this year's plans (although not yet finalized) are a Workshop on Bayesian Applications and a Conference on Psychometrics in May. Further information on the Chicago Chapter and its activities can be found at their web site www.chicagoasa.org.

Calendar

The following are some upcoming meetings/conferences that may be of interest:

- 2005 ENAR Spring Meeting (March 20-23, 2005; Austin, Texas; see www.enar.org)
- Fifth SIAM International Conference on Data Mining (April 21-23, 2005; Newport Beach, California; see www.siam.org/meetings/sdm05)
- 2005 ASA Quality and Productivity Research Conference (May 18-20, 2005; Minneapolis, Minnesota; see www.amstat-online.org/sections/qp/qpr/)
- United States Conference on Teaching Statistics (May 19-21, 2005; Columbus, Ohio; see www.causeweb.org/uscots/)
- Twenty-eighth Annual Midwest Biopharmaceutical Statistics Workshop (May 23-25, 2005; Muncie, Indiana; see www.mbswonline.com)

- For additional meetings or information, visit Calendar of Events on the ASA website (www.amstat.org).

~Rick Rode

Officers and Committee Chairs

PRESIDENT

Renee Alpern
(708) 202-4897
ralpern@roosevelt.edu

PRESIDENT-ELECT AND PROGRAM CHAIR

Jeffrey Isaacson
(847) 937-8302
Jeffrey.Isaacson@abbott.com

SECRETARY

Coleen Hall
(847) 936-0753
Coleen.Hall@abbott.com

TREASURER

Jimmy Sun
(847) 937-9776
Jimmy.Sun@abbott.com

PAST-PRESIDENT

Bala Hosmane
(815) 753-6858
bala@math.niu.edu

CHAPTER REPRESENTATIVE

Bala Hosmane
(815) 753-6858
bala@math.niu.edu

ARRANGEMENTS

Chris Sullivan
(773) 327-9607
csullivan@childrensmemorial.org

Peter Yu
(847) 582-2359
peter.yu@tap.com

MEMBERSHIP CHAIR

Jaime Delgado
(847) 935-4657
Jaime.Delgado@abbott.com

AWARDS AND RECOGNITION

Prof. A. S. Hedayat
(312) 996-4831
hedayat@uic.edu

COMMUNITY ACTIVITIES

Carole Bernett
(630) 773-2697
cbernett@ix.netcom.com

Paul Coe
(708) 524-6640

coepaul@email.dom.edu

NEWSLETTER EDITOR

Anita Ross
(847) 675-7807
aross@northpark.edu

NEWSLETTER ASSO. EDITOR

Yang Shen
(847) 938-0443
yang.x.shen@abbott.com

WEBMASTER

Paul Cernohous
(847) 938-0316
paul.cernohous@abbott.com

WORKSHOP DISTRIBUTION

Richard Rode
(847) 937-3757
Richard.Rode@abbott.com

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

Statfax welcomes letters and material for articles from its readers. Address correspondence to: The Editor, Statfax, c/o Anita Ross, Ross Consulting, 4554 Main St., Skokie, IL, 60076.

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.
