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**Fall 2002 Meeting Notice**  
**Northeastern Illinois Chapter**  
**American Statistical Association**

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**DATE:** Thursday, October 3, 2002. (Luncheon at 11:30 a.m.)

**LOCATION:** DoubleTree Guest Suites, 1400 Milwaukee Ave., Glenview, IL 60025. The telephone number is (847) 803-9800.

**RESERVATIONS:** Advance reservations are required and must be received by 4 p.m., Thursday, September 26. 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. (Please circle in the following table the amount you are paying.)

<b>FEES:</b>	<b>Luncheon &amp; Sessions</b>		<b>Sessions Only</b>		<b>NIC</b>
	<b>Member</b>	<b>Non-Member</b>	<b>Member</b>	<b>Non-Member</b>	<b>Membership Only</b>
<b>Regular (Corp./Govt.)</b>	<b>\$50.00</b>	<b>\$55.00</b>	<b>\$25.00</b>	<b>\$30.00</b>	<b>\$5.00</b>
<b>Academic (Univ./H.S.)</b>	<b>\$40.00</b>	<b>\$45.00</b>	<b>\$15.00</b>	<b>\$20.00</b>	<b>\$5.00</b>
<b>Full-time Student</b>	<b>\$11.00</b>	<b>\$12.00</b>	<b>no charge</b>	<b>\$1.00</b>	<b>\$1.00</b>

**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 2002.**

**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:

<b>Harold W. Frush</b>	
D-07B2 AP5N	Phone: (847) 937-5332
Abbott Laboratories	Fax: (847) 935-3320
100 Abbott Park Road	Email: harold.frush@abbott.com
Abbott Park, IL 60064-6070	

**PROGRAM:**

- 11:00 – 11:30 Registration
- 11:30 – 12:30 Luncheon
- 12:30 – 12:45 Business Meeting
- 12:45 – 13:40 Devan Mehrotra: *Some New Proposals for Analyzing Stratified Comparative Clinical Trials*
- 13:40 – 13:55 Break
- 13:55 – 14:50 Scott Berry: *Drive for Show and Putt for Dough: What Makes Tiger So Good?*
- 14:50 – 15:05 Break
- 15:05 – 16:00 Paul Levy: *Proving that a Large Haystack Contains No Needle*

**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

I will not be attending the meeting and am enclosing my  Membership Dues Only.

2002 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

Please send my newsletter via  E-mail  U.S. Mail Tax Identification Number 52-1665956

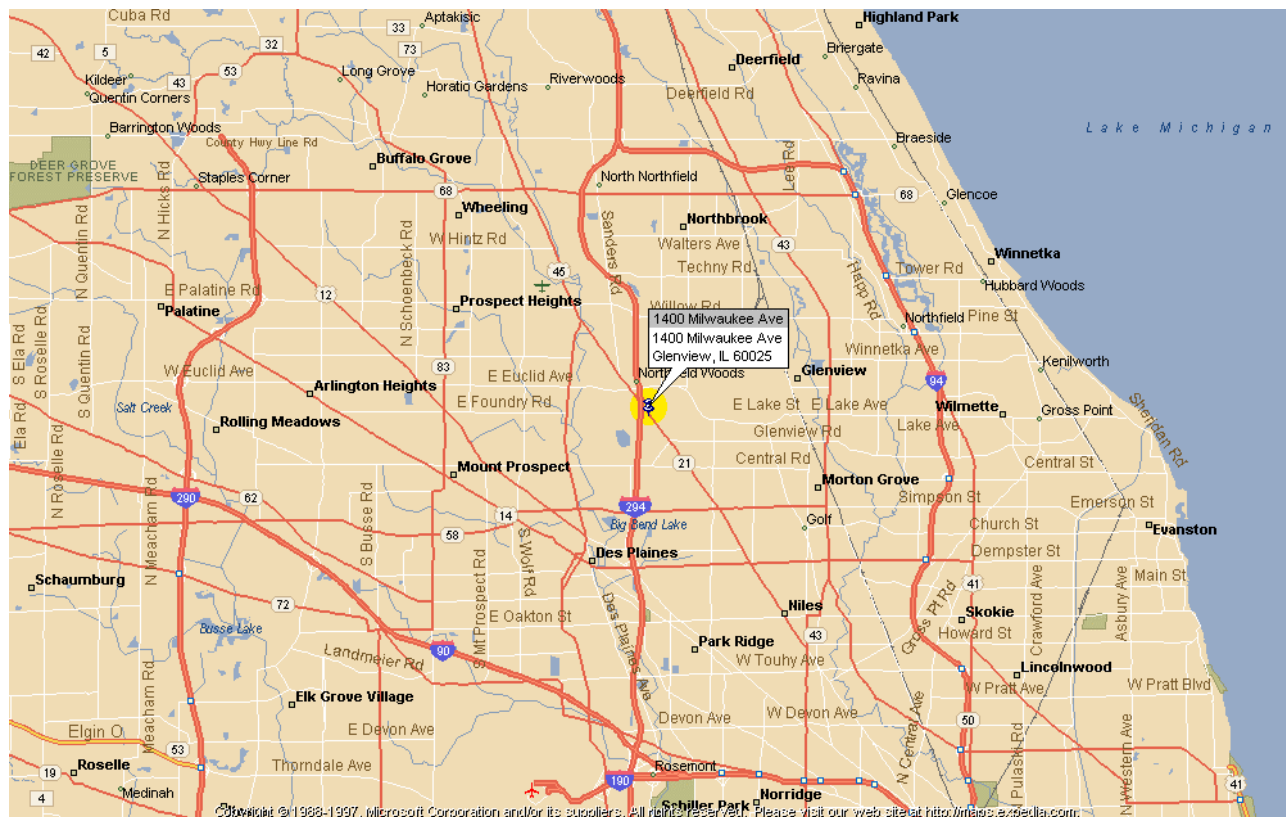
## ***Directions to the DoubleTree Guest Suites***

**FROM DOWNTOWN CHICAGO:** Take 90/94 West (to O'Hare/Rockford). At the Junction of 90/94, take 94 North (to Milwaukee). Exit at Willow Road. West on Willow to Milwaukee. South on Milwaukee to Hotel.

**FROM THE WEST:** Take 90 East to 294 North. Exit at Willow Road. West on Willow Road to Milwaukee Ave. South on Milwaukee to Hotel.

**FROM THE NORTH:** Take 94 or 294 south to Willow Road. West on Willow Road to Milwaukee Ave. South on Milwaukee to Hotel.

**FROM THE SOUTH:** Take 294 North to Willow Road. West on Willow Road to Milwaukee Ave. South on Milwaukee to Hotel.



## 19th Annual Fall Meeting Program October 3, 2002

### **Some New Proposals for Analyzing Stratified Comparative Clinical Trials**

In this talk we address some fundamental issues involving stratified comparative clinical trials, with emphasis on binary endpoints. First, we differentiate between prognostic and non-prognostic factor stratification when defining the “true overall treatment effect” parameter. Second, we stress the importance of clearly stating the null hypothesis being tested. Third, we review some recently developed alternatives to the popular Mantel-Haenszel procedure, and discuss the related issue of stratum weighting. Fourth, we describe how to (and how not to!) test for a treatment by stratum (TxS) interaction, and what to do in the presence of an interaction. Finally, we comment on the issue of random stratum sizes, and the consequent misinterpretation of routinely reported interval estimates of the “overall treatment effect”. Illustrative examples are provided to reinforce the key points, and to support some specific recommendations.

**Devan V. Mehrotra, Ph.D.**  
**Merck Research Laboratories**

Devan V. Mehrotra, Ph.D., is Associate Director, Scientific Staff, Merck Research Laboratories, Blue Bell, PA. Prior to joining Merck in 1996, he held positions of increasing responsibility during an approximately six year stint at G. D. Searle & Co., Skokie, Illinois. Dr. Mehrotra received his

MSc in statistics from the University of Bombay, India, and his PhD from the University of Delaware, Newark, Delaware.

His areas of research include general linear models, survival

analysis, multiple comparisons, missing data, and robust statistical methods. He is currently serving as immediate past President of the Philadelphia Chapter of the American Statistical Association, and is an industry representative on the steering committee of the annual FDA/Industry Statistics Workshop. He is also an adjunct faculty member at Villanova University, PA.

### **Drive for Show and Putt for Dough: What Makes Tiger So Good?**

One of the oldest expressions in golf is that you drive for show, but putt for dough. Is this true? In this talk I will analyze the individual aspects of each golfer's ability, in an attempt to determine which attributes are the most important for a professional golfer. In recent years the PGA Tour has started keeping track of more detailed statistics which enable me to diagnose driving skill (distance and accuracy), iron play, sand play, chipping ability, and putting. I use this model to dissect Tiger Woods' game: What part of his game makes him so much better than everyone else?

**Scott M. Berry**  
**Berry Consultants**

Scott M. Berry received his B.S. in Mathematics from the University of Minnesota and his Masters and Ph.D. in Statistics from Carnegie Mellon University. He spent 5 years as an Assistant

Professor of Statistics at Texas A&M University and is currently a Statistical Scientist for Berry Consultants. His research interests are in Bayesian statistics, specifically in the design and analysis of clinical trials, hierarchical modeling, Bayesian computation, decision analysis, and applications to sports. He has publications in the *Journal of the American Statistical Association*, the *Journal of the Royal Statistical Society*, and *ESPN the Magazine!*

***Proving that a Large Haystack Contains No Needle: Some Statistical Issues Motivated by the Recent Outbreak of Anthrax in Mailrooms and with Applications to Surveillance for Adverse Reactions***

Approximately 15 years ago, the speaker organized a Chicago ASA Chapter Conference entitled “Finding a Needle in a Haystack” that considered the statistical issue of sampling for individuals having rare attributes. While not directly related, this presentation discusses the equally important statistical issue of ensuring that a large haystack contains no sharp and potentially dangerous needle. We build here upon earlier work on the “zero numerator” problem (Jovanovic BD and Levy PS *American Statistician*, 51: 137-139, 1997), and on preliminary findings that have recently appeared in *CHANCE* (Levy PS, Hsia J, Jovanovic B, and Passaro D, *CHANCE*, Spring, 2002) to address this problem.

Following the discovery of anthrax spores last Fall in a letter addressed to Senator Daschle, officials involved in damage control gave serious consideration to conducting a sample survey among the approximately 3200 mailrooms in the same network as the one serving Senator Daschle. In the process of determining the sample size necessary to achieve a high level of confidence that none of the other mailrooms were contaminated, we proposed an hypothesis test based on the hypergeometric distribution. Using our formulation, we found that the sampling fraction of mailrooms required is exactly equal to the desired level of confidence that none of the other mailrooms are contaminated (e.g., In order

to be 95% confident that all of the other mailrooms are free of anthrax spores, we need to sample 95% (3041) of the mailrooms). We also discuss methodology for determining from a sample, upper limits on the number of contaminated mailrooms. Some findings presented here indicate that a Bayesian solution could result in considerable “tightening” of the resulting upper bounds.

***Paul S. Levy, ScD  
School of Public Health-University of Illinois at Chicago and  
Research Triangle Institute, Research Triangle Park***

Paul S. Levy is presently Professor Emeritus of Biostatistics and Epidemiology at the University of Illinois at Chicago, School of Public Health and (since Sept., 2002), Senior Research Statistician at the Research Triangle Institute in North Carolina. He has had a very long career as a teacher of Biostatistics and Epidemiology as well as an active consultant to institutions in the private and public sectors. He has authored or co-authored over 185 publications in statistical and health sciences journals, and has been an active member of the Chicago Chapter, ASA (President, 1990). He is a Fellow of both the American Statistical Association and the American College of Epidemiology as well as an elected member of the American Epidemiological Society. His sampling text, *Sampling of Populations: Methods and Applications* (written with Stanley Lemeshow) is now in its 3rd edition and is still widely used in sampling courses.

He lives with his wife, Virginia, in suburban Chicago and has three adult sons scattered around the U.S. as well as an 8 month old granddaughter. He is an active marathon and ultra-marathon runner and has won or placed within his age group (60-69) in numerous races. He presently holds the record for his age group in the Hustle Up the Hancock 94 story stair climb (15 minutes, 6 seconds)!

~Richard Rode

## President's Report

As I compete my year as Chapter President, I want to give a special thanks to the other Chapter Officers, especially Donna Kowalski, who will be stepping down from the office of Past-President at the end of this calendar year. Thank you Donna for your years of dedication and service to the chapter and for the expert guidance you provided me these past two years.

Some challenges lie ahead for the new chapter officers. You will notice in the Treasurer's Report that the financial position of the chapter has improved recently. Unfortunately, we needed to increase our meeting fees in order to achieve this. Fortunately, the Chapter leadership has worked diligently to keep our costs under control. Even so, we remain concerned that an unexpectedly low turnout at a Chapter meeting can put the Chapter in financial jeopardy and we will need to continue keeping a very watchful eye over our finances.

Identifying chapter members who are willing to step forward and take a leadership position continues to vex us. Currently, we are in need of someone with knowledge of MS Access who is willing to work with the Chapter Treasurer in maintaining the membership database. We are also looking for someone who is willing to work with the current newsletter editor to on our newsletters. Please contact me by e mail ([reda@research.hines.med.va.gov](mailto:reda@research.hines.med.va.gov)) if you are interested.

I hope you will find our selection of topics and speakers for the fall meeting to be of interest. I look forward to seeing you at the meeting on October 3.

~ *Domenic Reda*

## Fall Meeting

The fall meeting will be held on October 3, 2002, at the DoubleTree Guest Suites, 1400 Milwaukee Ave., Glenview, Il. 60025. The telephone number

is (847) 803-9800. If you have special needs, please contact Peter Yu (847-236-2359; [peter.yu@tappharma.com](mailto:peter.yu@tappharma.com)), or Renee Alpern (708-202-4897; [alpern@research.hines.med.va.gov](mailto:alpern@research.hines.med.va.gov)).

~ *Peter Yu and Renee Alpern*

## Nominees for 2003 Chapter Officers

At the business portion of the October 3, 2002 Chapter meeting, we will elect officers for the 2003 calendar year (January 1 - December 31, 2003). The slate of officers is as follows:

### **Program Chair/President-Elect**

**Dr. Balakrishna Hosmane** is a Statistics faculty at Northern Illinois University and has been teaching there for the last 18 years. He serves as a faculty consultant for the Statistics Division at NIU and also consults for Pharmaceutical Industries. His main research interest is in categorical data, linear and nonlinear mixed models and pharmaceutical statistics. He has been working with statisticians and pharmacokineticists of Abbott Laboratories for the last 13 years and has done work for Pharmacia and other pharmaceutical industries. He received his Ph.D. from University of Kentucky and has published over 30 research articles both in applied and theoretical journals.

### **Secretary**

**Theodora Cohen, Ph.D.**, is Senior Director of Biostatistics and Data Management at NeoPharm, Inc. She received a Ph.D. in Statistics from Northwestern University (1990) and a B.S. in Statistics from the Hebrew University in Jerusalem, Israel (1985). Prior to joining NeoPharm in July, Theodora held positions at Searle, the College of American Pathologists, and IBAH/Omnicare Clinical Research.

## Treasurer

**Harold Frush** is a Senior Biostatistician in the Diagnostic Division of Abbott Laboratories. His current responsibilities include project and product support of new technologies, instrument systems, and blood bank systems. He has participated in the development of diagnostic products for the last 25 years. During the six plus years prior to that he supported R/D and clinical efforts in the Pharmaceutical Division of Abbott Laboratories and International Medical. His pet project is the use of scientific and statistical methods in problem solving. His most interesting project thus far has been a search for the disease that was associated with a particular virus. Harold received his B.S. in Pre-Medicine and M.S. in statistics from West Virginia University.

~Donna Kowalski

## Treasurer's Report

<b>BALANCE 01/01/2002</b>	<b>3,491.74</b>
INCOME	
2002 Spring Meeting	2,676.00
2002 Summer Workshop	7,260.00
Bank Interest (thru 6/30)	37.71
Total Income	9,973.71
TOTAL ASSETS	13,465.45
EXPENSES	
2002 Spring Meeting	(2,140.87)
2002 Summer Workshop*	(6,316.93)
Bank Charges	(5.00)
Total Expenses	(8,462.80)
<b>BALANCE 06/30/2002</b>	<b>5,002.65</b>
<b>Paid Expenses Not Yet Cleared</b>	
Adam's Mark Hotel	4,437.68
Elan Pharmaceuticals (Honorarium)	1,178.50
Chuck Davis (Speaker's Expenses)	700.75
TOTAL	6,316.93

<b>Summer Workshop Attendance</b>	
Students	13
Non-Students	85
Out-of-State Attendees	7
No Shows	5
<b>2002 Paid Memberships</b>	
Non-Students	129
Students	8

~ Harold Frush

## Community Activities

The Consortium for AP Statistics (CAPS) and the Northeastern Illinois Chapter of the American Statistical Association (NIC/ASA) is sponsoring a free half-day statistics workshop for high school AP statistics teachers. The workshop will be held on September 7, 2002 at St. Ignatius College Prep., and will be taught by Don Hedeker, Professor of Epidemiology and Biostatistics, School of Public Health, University of Illinois at Chicago.

~Carole Bernett and Dorothy Dunlop

## Calendar

Following are some upcoming events that may be of interest to you. Check the ASA web site for further details:

*International Conference on Questionnaire Development, Evaluation, and Testing Methods.* November 14 - 17, 2002, Charleston, South Carolina

*58<sup>th</sup> Annual Deming Conference* December 2-6, 2002. Atlantic City, New Jersey.

*9<sup>th</sup> Annual Biopharmaceutical Applied Statistics Symposium* December 9-13, 2002, Savannah, Georgia.

# Calendar, Continued

ENAR March 30-April 2, 2003, Tampa, FL.

ASA 2003 Joint Statistical Meetings  
August 3-7, 2003, San Francisco, CA

# Chapter Webpage

Don't forget to visit our Chapter web page at <http://www.amstat.org/chapters/NortheasternIllinois/nic.htm>. The website can also be accessed by following links found on the main ASA web page ([www.amstat.org](http://www.amstat.org)). Select Chapters, then Chapter Links by District, then North Eastern Illinois (Under District 4), and finally, Visit the Northeastern Illinois Chapter home page.

The Chapter website has lots of information about our Chapter, including events, program information, a listing of members, and contact information for Chapter officers and committee members. You can also peruse PDF versions of current and past Chapter newsletters.

~Paul Cernohous

# Officers and Committee Chairs

## PRESIDENT

Domenic Reda  
(708) 202-5853  
[reda@research.hines.med.va.gov](mailto:reda@research.hines.med.va.gov)

## PRESIDENT-ELECT AND PROGRAM CHAIR

Richard Rode  
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## SECRETARY

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## Peter Yu

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Linda Odom  
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[lodom@enh.org](mailto:lodom@enh.org)

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(312) 996-4831  
[hedayat@uic.edu](mailto:hedayat@uic.edu)

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(630) 773-2697  
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## Paul Coe

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**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.

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**Northeastern Illinois Chapter, ASA**  
**c/o Linda C. Odom, Membership Chair**  
**CORE / Evanston Northwestern Healthcare**  
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**Evanston, IL 60201**