



*The Southern California*

# *Statistician*

**SOUTHERN CALIFORNIA CHAPTER, AMERICAN STATISTICAL ASSOCIATION**

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## **The 21st Annual Workshop in Applied Statistics on Nonparametric Statistical Methods with Gary G. Koch Friday, April 19, 2002**

Professor Koch from the University of North Carolina at Chapel Hill will be speaking on nonparametric statistical methods. This year's workshop, that takes place at the University of California at Long Beach, promises to be excellent. As most of you know, our financial goal for the workshop is to break even – we try to neither make nor lose money. This year we have reduced the early registration price for regular attendees by \$5 in response to feedback that a lower price might increase attendance. This means the early registration price for regular attendees will be \$60; it will remain at \$25 for students. While it is a relatively small difference, we hope that it will allow a few more of you to attend. If we lose money this year, we will need to raise the fee next year.

### **Program for April 19**

8:30 - 9:00 a.m. Check-in, Continental Breakfast  
9:00 - 10:30 a.m. First Session  
10:30 - 10:50 a.m. Break - Coffee and Exhibits  
10:50 - 12:20 p.m. Second Session  
12:20 - 1:50 p.m. Lunch and Exhibits  
1:50 - 3:20 p.m. Third Session  
3:20 - 3:40 p.m. Exhibits  
3:40 p.m. Door Prizes - Must be present to win

The first session will be an overview of standard nonparametric methods and the two latter sessions will get into new and cutting-edge methods for non-parametric ANCOVA and multiple group comparisons using weighted least squares. More detail is given in the

abstract below. Dr. Koch is an excellent, experienced speaker and well-known consultant.

The workshop will be held in the Pointe room of the Pyramid. This is a very nice room; we used it once, several years ago. And it is adjacent to the parking structure rather than halfway across campus, something that frequent attendees will appreciate. The committee is currently working on getting lots of book and software exhibitors to attend and explain their products, offer convention discounts, and donate products to the door prizes. We always have a great many door prizes for those who stay until the end of the day (winners must be present). This year, we are adding a new twist to the door prize policy: winners will be allowed to choose their prize from the pool of prizes.

Note that the postmark deadline for early registration prices is April 8<sup>th</sup>. Additionally, you will receive a free parking permit if you register and pay by this date. Otherwise you will need to purchase a parking permit from the dispensers in the lot, which will cost \$2 and require exact change (quarters or singles).

If you have questions about the workshop, please contact Nancy Berman at [berman@gcrc.rei.edu](mailto:berman@gcrc.rei.edu) or 310-222-1874; Anita Iannucci at [iannucci@uci.edu](mailto:iannucci@uci.edu) or 949-824-1682. Also see the web site: <http://www.stat.ucla.edu/~rgould/asw2002/> for more information.

**See the insert page for the Workshop Registration Form.**

## Nonparametric Statistical Methods

### Abstract

This workshop will provide descriptions for basic and emerging nonparametric statistical methods and examples for their application. One emerging method for randomized clinical trials is nonparametric analysis of covariance. It uses weighted least squares to adjust the difference between two treatments for the means of a response variable to a structure that has no difference for the means of covariables (on the basis of the known equality of means for covariables that randomization of treatments to patients implies). This method enables variance reduction for estimates of differences between treatments for a response variable without issues concerning assumptions of linearity or parallelism in relationships to covariables. Another emerging method uses multivariate sets of Mann-Whitney estimates for the probability of better response for one group than another to evaluate relationships pertaining to more than two groups and/or more than one response for the comparison between two groups. Attention is given to the estimation of the covariance structure for these Mann-Whitney estimates and the use of weighted least squares to fit models to describe their variation. Many examples will be provided to illustrate the application of all of these nonparametric statistical methods, and there will be some related discussion of computing strategies.

**Professor Gary G. Koch**  
Univ. of North Carolina, Chapel Hill

### Biographical Sketch

Gary G. Koch, Ph.D., D.Sc. (Hon), is Professor of Biostatistics and Director of the Biometric Consulting Laboratory at The University of North Carolina at Chapel Hill, where he has served on the faculty since 1968. He received the BS in Mathematics and the MS in Industrial Engineering from The Ohio State University, the Ph.D. in Statistics from The University of North Carolina, and the D. Sc. (Honorary) from De Montfort University. His principal research interest is the development of statistical methodology for the analysis of categorical data and its corresponding applications to a wide range of settings in the health sciences. He has an extensive record of publication in statistics and in collaborative work in health sciences research. The topics, which are addressed by his publications, include crossover studies, multi-center studies, longitudinal (multi-visit) studies, rank methods for ordered outcomes, covariance analysis and adverse experience data analysis. He has previously

served on the editorial boards of *The American Statistician*, *Biometrics*, *Drug Information Journal*, and *Technometrics*, and he is currently a member of the editorial boards for *Statistics in Medicine* and *The Journal of Biopharmaceutical Statistics*.

### Incoming President's Address

SCASA has managed to hold a number of quality annual events in past years (or decades): the Careers Day Fair which attracts mostly graduate and undergraduate students in statistics, the Applied Statistics Workshop which has brought many prominent statisticians to our area to expound in detail their latest theory and methods to academic and applied statisticians, the recently initiated Consulting Workshop which has provided a means for the cumulative wisdom of many of our area's statisticians to be shared, and the annual Fall Kickoff Meeting.

An important area in which SCASA is notably absent (at least in any organized fashion) is in the schools. Kindergarten through high school (K-12) is where kids are now first exposed to data analysis, probability, and statistics - be it the simple exercises in doing histograms or the college level statistics being learned in the AP statistics classes. We need to be actively involved and not leave it all up to the school boards and classroom teachers to successfully initiate students in the field.

Here are my two new goals for SCASA for the year:

(Goal 1) Have SCASA participate in the county level high school science fairs to help judge and present awards for "Outstanding Statistical Applications" in a science project. Many companies and organizations present cash awards for exceptional projects at the fairs. Statistics needs to be represented in like fashion.

### Call for Judges and Donations

What I ask you to do is to contact me to volunteer some of your time to help judge at a science fair. The judging for the LA County Science Fair is scheduled for the mornings of April 17<sup>th</sup> and 18<sup>th</sup>. I have not yet obtained the schedule for the Orange County Science and Engineering Fair. Judging the projects should be a fun thing to do (I plan to participate). If you don't think you can dedicate some time to judging then I ask that you send in a donation to the SCASA treasurer to go towards cash and other awards for "Exemplary Applications of Statistics" at the fairs. Actually, if everyone paid their annual dues I wouldn't have to ask for donations, but I'll address this problem at another time. The number of

county science fairs we can participate in will depend on the number of volunteer judges and money available for awards. The address of the SCASA treasurer follows. Mark your donations for county science fair awards.  
 Nancy G. Berman, Ph.D.  
 Harbor-UCLA Medical Center  
 RB1, Box 446  
 1000 West Carson St  
 Torrance, CA 90509

**(Goal 2)** Compile a list of statisticians from SCASA who would be available resources for the schools to call upon to give talks about statistics in the classroom. I know some of you have already been guest-lecturing in your kid's classrooms already. I'd like to be more organized about it and more aggressively seek chapter involvement with helping students see the importance of statistics in work and its attractiveness as a career. Let me know of your interest and what school districts you could help.

**Meeting of Those Interested in K-12 Activities**

I have already been in contact with some of you on matters of K-12. I would like all of you who are interested in participating in some way to attend the Careers Day Fair this Saturday, February 23<sup>rd</sup>, at City of Hope, and meet after the lunch. I'd like to discuss science fair participation, strategies for getting involved with schools, and have you share your experiences on talking about statistics in the schools.

**E-News Changes**

If you're on our e-mail list, then you should have noticed some changes. There will be a monthly e-mail supplementing our printed newsletter. The monthly e-news will consolidate much of what used to be sent on a "as received" basis. This will help to limit the number of e-mailings you receive. Exceptions to this would be announcements of employment opportunities. Over time even more of our distribution of news will go electronic only, so if you're not on the e-mail distribution you'll be missing out on much of what goes on in the chapter.  
 Rodney Jee, [rxj@hncis.com](mailto:rxj@hncis.com).

**2002 Careers Day**

The 2002 SCASA Careers Fair is scheduled for February 23, 2002 at the City of Hope complex in Duarte, California. The fair itself provides you with a comfortable venue in which you can mentor new statisticians and students, regarding careers in our chosen field. The fair will also provide you with the means in

which to catch up with your fellow statisticians. The following partial list of companies will participate in this year's fair:

Allergan	Insightful
Amgen	J D Power and Associates
Ascential Software	Kaiser Permanente
Boeing	Minimed
BudGoodeSports.com	Princeton Consultants
City of Hope	Rain Bird
Experian	RAND
Farmers Insurance	SAS Institute Inc.
Flexo Hiner	USC
HNC Software	Washington Mutual

If you have any questions about attending please contact Mike Jay [michael.jay@jdpa.com](mailto:michael.jay@jdpa.com) or call him at (805)-480-3216.

**Conferences and Seminars**

**Spring Research Conference on Statistics in Industry and Technology**, sponsored by ASA/SPES and the IMS, will be held on May 20-22, 2002 at the University of Michigan, Ann Arbor, MI. The 2002 SRC will feature keynote address by David Cox, plenary talks by distinguished researchers and leaders in industry, invited sessions on key areas, and contributed paper sessions. There will also be pre- and post-conference workshops. Additional information on the conference, program, and registration is available from the conference web site at <http://www.stat.lsa.umich.edu/src/>

**Call for Papers, 46th Annual Fall Technical Conference, "Learning and Discovery" - Building the Future Through Quality and Statistics**, Co-Sponsored by ASA/SPES and ASQ/CPID, takes place in October 2002 in Wilmington, DE. Paper submission deadline is February 22, 2001. Contact for abstract format and submission: Mark Kiel, [mhkiel@uss.com](mailto:mhkiel@uss.com), (219) 888-7583.

**February 19**, Prof. George Tiao, is speaking at SDSU on ozone layer studies.

**February 22**, SDSU, 3:30PM, Room BAM-261, Speaker: Gabriel Huerta, Mathematics Research Center, Guanajuato, Mexico, Topic: TBA

**February 23**, Saturday, Careers Day,

**April 19**, the Applied Statistics Workshop (See the information on the first page and insert).

Please send items for the next issue of The Southern California Statistician to Jeff Vaks at [jevaks@beckman.com](mailto:jevaks@beckman.com). Electronic version of the Newsletter is posted on the SCASA website:

<http://orion.oac.uci.edu/~rnewcomb/statistics/scasa/scasa.html>. Members who would like to receive the Newsletter electronically are asked to send their e-mail addresses to Andy Dagis, Chapter Secretary, at [adagis@coh.org](mailto:adagis@coh.org).

### Job Opportunities

**Numeric** recruits statisticians for permanent and contract positions in the pharmaceutical and marketing science industries. Please refer to our web site, [www.numericjobs.com](http://www.numericjobs.com) for a list of all current job openings. Contact: Dave Carpenter at [dave@numericjobs.com](mailto:dave@numericjobs.com).

**Department of Mathematical and Computer Sciences**, San Diego State University. Two tenure-

track Assistant Professor in Statistics/Biostatistics beginning in the Fall 2002. Information is available at [http://www.sci.sdsu.edu/math\\_cs/](http://www.sci.sdsu.edu/math_cs/). Contact, Duane Steffey at 619-594-6176 or [steffey@math.sdsu.edu](mailto:steffey@math.sdsu.edu).

**Clinical Statistical Programmer and Senior Statistical Analyst** positions are available. For info contact Mike Baker at 919-467-0505 or [mjb@asg-inc.com](mailto:mjb@asg-inc.com).

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**SOUTHERN CALIFORNIA CHAPTER, AMERICAN STATISTICAL ASSOCIATION**

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## Fall Kick-Off October 12, 2002 Featuring PADHRAIC SMYTH on Data Mining

Professor Padhraic Smyth from University of California, Irvine, Department of Information and Computer Science will be speaking on data mining concepts and applications. Professor Smyth is the author of two recent books on data mining: *Principles of Data Mining*, with David Hand, Heikki Mannila, and *Advances in Knowledge Discovery and Data Mining*. He is also an associate editor of JASA and IEEE Transactions on Knowledge and Data Engineering, as well as being on the editorial board of *Journal of Machine Learning Research*, and *Journal of Data Mining and Knowledge Discovery*. He holds joint faculty appointments in Institute for Mathematical Behavioral Sciences and Center for Biomedical Engineering, UC Irvine.

This year's kick-off takes place at Claremont McKenna College, Bauer Forum, 500 East Ninth Street, Claremont, CA and promises to be excellent and very informative. The registration, which covers the cost of lunch, is \$15.00. The Reed Institute is co-sponsoring and will provide a continental breakfast.

### Kick-off Program

- 8:30 - 9:30 a.m. Check-in, Continental Breakfast, and Late Registration
- 9:30 - 10:30 a.m. Student Presentations
- 10:30 - 11:00 a.m. Refreshment break
- 11:00 - 1:00 p.m. Speaker Padhraic Smyth, "Data Mining
- 1:15 - 2:30 p.m. Lunch, business meeting
- 2:45 - 3:45 p.m. Student Presentations

Time slots are still available for student presentations (undergraduate and graduate). Please contact Professor Janet Myhre before September 30. This is an opportunity for students to share their work in a friendly atmosphere.

As professionals working in the field of statistics it is important for us to encourage young talent and interest. The blue insert includes information for mailing registration form and fees for lunch and directions to CMC campus.

### Workshop November 16, 2002

The Fourth Annual Workshop on Critical Success Factors for Consulting and Collaborating Emphasizing Case Studies will be held on November 16, 2002 at the Bauer Forum at Claremont McKenna College.

This workshop is sponsored by:

Ruth K. and Joseph C. Reed Institute for Decision Science  
Southern California Chapter, American Statistical

Association

San Diego Chapter, American Statistical Association  
Statistical Consulting Section, American Statistical

Association

Center for Statistical Consulting, University of California,  
Irvine

Information and Decision Sciences, CSU San Bernardino

Critical Success Factors for Consulting and Collaborating is a one-day workshop designed for students, consultants and managers in social sciences, physical sciences, mathematics, business and government. The conference shares the experience and perspective of expert consultants and client executives with those who aspire to or already work in the consulting profession. Networking breaks, lunch seating and the closing reception provide opportunities for increased interaction between attendees and speakers.

The theme of the 4<sup>th</sup> Annual Consulting and Collaborating Workshop is case studies. These case studies emphasize the collaborative nature of the relationship between professional and client. Presenters will share their experiences and perspectives with working on actual case studies. The following is a list of presenters for the workshop:

**Stanley Azen**, Professor of Preventive Medicine, Director of Biostatistics, University of Southern California  
**Harold Dyck**, Professor of Information and Decision Sciences, Cal State University San Bernardino  
**James Frane**, AMGEN Inc.  
**Arnold Goodman**, Associate Director, Center for Statistical Consulting, University of California, Irvine  
**Lynn Karoly**, Senior Economist, RAND Corporation  
**Robert Lunn**, Principal, Eta Consulting  
**Janet Myhre**, Director, Reed Institute for Decision Science and Professor of Mathematics, Claremont McKenna College  
**Rodney Smith**, President, Stratecon

#### **Tentative Program**

8:30 - 9:00 a.m. Check-in, Continental Breakfast, and Late Registration, Founders Room, Bauer Center, CMC  
 9:00 - 10:00 a.m. Case Studies  
 10:00 - 10:30 a.m. **NETWORKING BREAK**  
 10:30 - 11:30 a.m. Case Studies  
 11:45 - 1:00 p.m. Lunch  
 1:15 - 2:15 p.m. Case Studies  
 2:20 - 2:45 p.m. **NETWORKING BREAK**  
 2:40 - 3:45 p.m. Case Studies  
 4:00 - 5:00 p.m. Reception

The registration form is the green insert. Directions are the same as the October 12, 2002 SCASA Kick-Off.

If questions, contact Janet Myhre e-mail:

[janet.myhre@claremontmckenna.edu](mailto:janet.myhre@claremontmckenna.edu) or Harold Dyck e-mail: [hdycck@csusb.edu](mailto:hdycck@csusb.edu)

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### **Request for SCASA Support for AP Stat Teachers**

After hearing about the success of Tom Short's PASTA group -- a regular and informal gathering in Pittsburgh of AP Stats teachers and those interested in AP Stats, Rob Gould thought it would be fun to try the idea out in LA. He proposes we have the first organization meeting on Friday, October 25 at 4 p.m. at UCLA. One of the first items on the agenda will be where to meet for future

meetings. The group will probably meet at different locations so that not everyone will have to drive far every week.

At each meeting there might be guest speakers, organized discussions, un-organized discussions, and snacks. Not in that order. Ideally the group will have high school teachers, professional statisticians, and university statisticians.

If you are interested, here's what you should do:

1. Reply to Rob and RSVP at [rgould@stat.ucla.edu](mailto:rgould@stat.ucla.edu).
2. Sign up for the StatTeach listserv. Go to <http://lists.stat.ucla.edu> and follow the instructions to subscribe.
3. Subsequent news on this topic will be posted to the StatTeach listserv.

Contact Rob Gould for more info, e-mail:

[rgould@stat.ucla.edu](mailto:rgould@stat.ucla.edu)

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### **Insightful Technology Conference being held in Seattle, November 7-8, 2002**

This conference is a forum to discuss how analytic software solutions for numerical data, text, and images can improve business performance. Participants can choose from a number of informational presentations on both a business and technical level from world-class industry leaders, statistical and data mining gurus, and insightful developers. This year Dr. Robert Tibshirani, Stanford University, and Dan Sullivan, Redmont Corporation, will be delivering the keynotes. The conference will also feature speakers from Novartis, National City Bank, Boeing, and more!

Also, we will be offering discounted short courses in conjunction with the conference including:

- Data Mining the Insightful Way
- Deploying S-PLUS Applications
- Text Mining and Information Retrieval
- Robust Statistics and Data Mining for Outliers
- Microarray Data Analysis Using S-PLUS 6

You can find more information regarding this conference at [www.insightful.com/events/2002uc](http://www.insightful.com/events/2002uc). SCASA members will receive a \$100 discount (no discount for students).

Contact Jackie Martin, Conference Coordinator, e-mail [jmartin@insightful.com](mailto:jmartin@insightful.com)

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## ISCA 2003 Applied Statistics Symposium

### June 22-24, 2003

The applied statistics symposium of the International Chinese Statistics Association would like to invite SCASA to the ISCA 2003 symposium. Date: June 22 to 24, 2003. Short courses on Sunday, June 22, and technical sessions on Monday, June 23 and Tuesday, June 24. Location: University of San Diego. For local

attractions, please visit the hotel website

<http://www.sandiego.org/whattodo.asp>. Please link on <http://www.icsa.org> for information on accommodations, call for papers, preliminary program and other information. Contact Nancy Lo, e-mail:

[Nancy.Lo@noaa.gov](mailto:Nancy.Lo@noaa.gov).

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## Job Opportunities

**City of Hope, Database Analyst.** Successful candidate will perform data quality assurance programming and analytic file preparation for bone marrow transplantation, cancer chemotherapy and other types of clinical trials. You will also consult with medical center staff in the design and implementation of automated data quality analysis and reporting systems as well as develop and maintain downloads from legacy database systems and dynamic views of developing systems. The minimal requirements are a Bachelor's Degree in biostatistics or related field, with a Master's preferred, and at least three years experience in statistical programming. Strong knowledge of SAS statistical software and excellent verbal and written communication skills are required.

See David N. Ikle mailto: [dikle@coh.org](mailto:dikle@coh.org)

Tel: 626-359-8111x64446

<http://www.cityofhope.org>.

**Maui, Hawaii – AP Statistics TV teaching opportunity** at a local high school on Maui for mid-November 2002 thru March 2003 (roughly). Contact Margi Calder 808-986-8277

**City of Hope, Biostatistician.** Successful candidate will perform data quality assurance and statistical analysis of clinical trial data as part of a multi-center NIH-funded project investigating islet cell transplantation for the treatment of advanced diabetes. You will be part of a multi-disciplinary team, working under the direction of a Ph.D. level Biostatistician, that will operate the project's administrative and data coordinating center. You will consult with project staff in the design and implementation of automated analysis and reporting systems in accordance with internal and external reporting requirements. The minimal requirements are a Bachelor's Degree in biostatistics or related field, with a Master's preferred, and at least three years experience in statistical consulting and data analysis. Strong knowledge of SAS statistical software and excellent verbal and written communication skills are required.

See David N. Ikle mailto: [dikle@coh.org](mailto:dikle@coh.org)

Tel: 626-359-8111x64446

<http://www.cityofhope.org>.