



The Southern California Statistician

SOUTHERN CALIFORNIA CHAPTER, AMERICAN STATISTICAL ASSOCIATION

Volume 39, No. 1

January/February 2001

Two "Careers in Statistics" Events in Southern California

Los Angeles Area Careers Day
City of Hope Medical Center
Saturday, February 24, 2001

Catharine Sterling, Executive Recruiter at Smith-Hanley Associates, Inc. is the featured speaker. She will be speaking on, "Careers in Statistics - From Clinical Trials to Credit Cards."

When: Saturday, February 24, 10 am - 3:30 pm
Featured speaker at 12:00.

Where: Platt Auditorium, City of Hope National Medical Center, 1500 East Duarte Road, Duarte, California.

Directions: Exit the 210 at Buena Vista (just west of the 605). Go South 1 block, then east on Duarte Road. Park on Duarte Road, or inside the main gate.

The LA Area Careers Day is free of charge, and open to anyone interested in the statistical professions, including students, prospective statistics students, job seekers, and educators.

Advance registration is appreciated, but not required. For your convenience, a lunch may be reserved by mailing a
(Please see LA Area Careers Day on p. 2)

Santa Barbara Area Careers Day
UC Santa Barbara
Saturday, March 3, 2001

William Michael O'Fallon, Immediate Past President American Statistical Association, is the featured speaker.

When: Saturday, March 3, 11 am - 3:30 pm

Where: Faculty Club,
University of California, Santa Barbara, CA.

The SB Careers Day is free of charge, and open to anyone interested in the Statistical Professions. Advance registration is appreciated, but not required. Lunch is available at very moderate prices at a variety of eateries in the University Center.

Contact: Micael Kemp at kemp-m@sa.ucsb.edu, (805) 893-4411 or fax her at (805) 893-8023. For further information (maps, etc.) please see insert or our Web site:

<http://orion.oac.uci.edu/~mewcomb/statistics/scasa/scasa.html>

DENNIS COOK
 To Speak on
**Regression Graphics at
 The 20th Annual Workshop in
 Applied Statistics**

When: Friday, May 11, 2001, 8:30am to 4pm

Where: California State University, Long Beach

Mark your calendars for the 20th Annual Workshop in Applied Statistics. Dennis Cook of the School of Statistics, University of Minnesota, will be speaking on Regression Graphics at CSULB.

Abbreviated Abstract: In simple regression, a 2D plot of the response versus the predictor displays all of the sample information, and can be quite helpful for gaining insights about the data and for guiding the choice of a first model. Such straightforward graphical displays of all the data are not generally possible with many predictors, but informative displays are still possible in situations where we can find low-dimensional views, the only ones that are possible in practice, that provide "sufficient" information about the regression. In regression graphics we seek to facilitate visualization of the data by reducing the dimension of the predictor vector without loss of information on the regression, defined broadly as the study of the conditional distribution of the response given the predictors, and without requiring a pre-specified parametric model.

We will start with a little history on regression graphics, and a discussion of the various roles for graphics in statistics. We will next discuss the population foundations for sufficient summary plots, using examples to motivate the approach and illustrate its likely advantages in practice. We will then turn to existing methodology for finding summary plots in practice and finally to current research in the area.

All of the new and existing methods to be discussed have been implemented in Arc (Cook and Weisberg 1999; www.stat.umn.edu/arc/). Illustrations, including regressions with a binary response, will be incorporated throughout the program. The software is free and available for download at www.stat.umn.edu/arc/.

See the SCASA Web site for more details. More information will be forthcoming in the next Chapter Newsletter.

Contact: Nancy Berman at berman@gcrc.humc.edu or Connie Vadheim at vadheim@humc.edu

Registration Form & Full Abstract:
<http://orion.oac.uci.edu/~newcomb/statistics/scasa/scasa.html>

INTERFACE '01
WESTIN SOUTH COAST PLAZA HOTEL
COSTA MESA ON JUNE 13-16, 2001
<http://www.ics.uci.edu/interface>

The Interface of Computer Science and Statistics was born in 1965 at what was to become the University of California, Irvine, and our very own Southern California Chapter with Nancy Mann as the Chair launched the Symposia in 1967. Bringing it home for its 35th birthday in 2001 presents a unique opportunity. The last Interface in Southern California was San Diego in 1993, and the last one in Los Angeles was 1975.

Our Interface has become the premier annual conference on the increasingly productive intersection of computer science and statistics, usually attracting 300 or more attendees. This year's themes are data mining and bioinformatics with invited experts on massive data sets, graphical models, support vector machines, Bayesian methods in bioinformatics, analyzing Web data, statistical models for text, model-based clustering, computational finance, data visualization, and many more. A special day on bioinformatics will be held on June 16th with invited sessions on biological sequence analysis, gene expression data, brain imaging, and medical data management and analysis.

You are invited to attend and to submit a contributed paper for presentation at the Symposium. We welcome papers on topics of potential relevance to the interface of computer science and statistics. Submissions should consist of a 200-word abstract with a 4-page short paper, and are due by MARCH 31st. Electronic submission of abstracts and papers will be required, with the details appearing shortly on the conference Web site at www.ics.uci.edu/interface. The complete text of papers presented at the Symposium will appear in the Interface '01 Proceedings to be published as a CD-ROM by IFNA (The Interface Foundation for North America).

LA Area Careers Day (Continued)

check for \$5.75 (students) or \$7.50 (general), with the registration form. The lunch price at the door is \$8.00, and subject to availability. Bag lunches are welcome.

For further information please see insert or our Web site:

<http://orion.oac.uci.edu/~newcomb/statistics/scasa/scasa.html>

Contact: Andrew Dagus at adagus@coh.org or phone him at (626) 359-8111 x2354, fax: (626) 301-8393.

Position Announcements

All of these announcements have been broadcast on SCASA's Chapter e-mail service. If you'd like to be added to the list of subscribers, please send a message to that effect to Harold Dyck at hdyck@csusb.edu.

1. City of Hope needs an experienced biomedical data analyst to be engaged in all phases of basic and clinical research. Bachelor's degree required, Master's degree in biostat preferred. Contact David N. Iklé, at dikle@coh.org or see <http://www.cityofhope.org>.
2. Collaborative Alcohol Research Center Charles R. Drew University of Medicine & Science is looking for an Associate Director for Drew Center for AIDS research. Contact Steve Mitchel at stmitche@cdrewu.edu
3. Department of Preventive Medicine, USC School of Medicine is looking for a Programmer/Data Analyst to assist epidemiologists in the data management and analysis of cancer epidemiological studies. Please fax resume to Anna Wu (323) 865-0139 or email to annawu@hsc.usc.edu
4. UCLA's Academic Technology Services' Statistical Consulting Group currently has 2 positions open, which could be either part time or full time. The Statistical Consulting group provides help in statistical computing for the UCLA research and teaching community by providing instructional web pages (see <http://www.ats.ucla.edu/stat/>) and consulting services (see http://www.ats.ucla.edu/stat/Qtr_Schedule.htm). These positions could be ideal for a graduate student who has advanced to candidacy. Contact Michael Mitchell at mnm@ucla.edu. For more information, you can see http://www.ats.ucla.edu/jobs/rts_stat.htm.
5. The Division of Information Sciences City of Hope National Medical Center is looking for a Project Administrator for its National Comprehensive Cancer Network (NCCN) to oversee operations of the Data Coordinating Center of a national outcomes study in oncology. Master's degree or Ph.D. in an applicable field (e.g. Biostatistics, Epidemiology, Public Health, Health Care Admin). Minimum 5 years experience. Contact Joyce C. Niland, Ph.D. at jniland@coh.org or FAX resume to 626-301-8802.
6. Southern California Kaiser Permanente's regional office has a "Research Analyst II" position opening to develop and implement the data management

and analysis plans for multiple research projects of moderate to complex nature. Candidates need an MS degree in statistics or related field with 3-4 years experience in analytical research. Please send resumes to Girma Wolde-Tsadik, at Girma.T.Wolde-Tsadik@kp.org or FAX to 626-564-3430.

7. Amgen in Thousand Oaks, has six positions. They need an **Assoc. Dir. Biostatistics** (job ID 00-0001420) to manage a staff of 20+ statisticians and programmers doing work on clinical trials for a variety of drugs. The second position is for an **Assoc. Dir. Statistical Program** (job ID 00-0001429) to identify department-wide needs for standards, software, and processes and design, budget, develop, and implement solutions. The third position is for **Principal Stats Programmer Analyst** (Job ID 00-0001601) to provide SAS and other programming support with respect to design, conduct & analysis of clinical trials; participate in clinical trial process by reviewing protocols, CRFs, data management and statistical analysis plans, generate statistical analysis data sets, and produce summary tables, listings and graphs. Fourth, they need a **Sr. Stat. Prog. Analyst** (Job ID 00-0001557) to provide SAS programming support to CDM to facilitate review of clinical data and provide support and guidance on validation of SAS programs. The candidate needs a minimum of four years of full time SAS programming experience in the biopharmaceutical field, experience in a UNIX environment and a Bachelors degree. The 5th position is for a **Sr. Stat. Prog. Analyst** (ID 00-0001753). Candidates will provide SAS and other programming support with respect to design, conduct & analysis of clinical trials. Requires a minimum of 5 years of experience using SAS in a biomedical or other health related field. Candidates must have extensive knowledge of SAS, SAS GRAPH, and MACROS. MA or MS in these fields is preferred. And finally, a **Stat. Programmer Analyst II** (00-0001420) is needed to create and maintain statistical analysis data sets incorporating data from multiple sources, and to program or modify existing programs to review data and generate tables, listings, and graphs. Assists in processing ad hoc requests. Use of SAS in pharma environment and experience with clinical trials data. Experience with data structures and data management techniques necessary.

Please email resumes to tevars@amgen.com indicating job identification number.

8. The Department of Statistics at the University of California, Davis is conducting a search for a tenure track Assistant Professor or tenured Associate Professor. Send

applications to: Chair, Search Committee, Department of Statistics, 1 Shields Avenue, University of California, Davis, CA 95616.

9. The Aerospace Corporation in El Segundo, California is a research and development center with primary customers the U. S. Air Force Space and Missile Systems Center and the National Reconnaissance Office (see the corporate web page at <http://www.aero.org>), and

has positions which involve working with engineers and scientists to provide objective technical analyses for satellite and launch vehicle systems. Ideal candidates will have a broad knowledge of statistics, excellent communication skills, experience in statistical programming, and the ability and desire to work with engineers and scientists on a wide variety of problems. To apply, please email a resume to James.M.Womack@aero.org.

UPCOMING RAND STATISTICS SEMINAR SERIES

Sponsored by the Statistics Group

Carl Morris, Department of Statistics, Harvard University Topic: TBD
Thursday, March 15, 2001, Main Conference Room

Linda Collins, The Methodology Center, Pennsylvania State University Topic: TBD
Thursday, September 13, 2001, Main Conference Room

Have you paid your chapter dues? Please check the mailing label for the data of renewal of your membership. If you are in arrears or have change of address contact the Chapter Secretary Andy Dagus at adagus@coh.org or (626) 359-8111 x2354, fax (626) 301-8393.

American Statistical Association, Southern California Chapter
c/o Jeffrey E. Vaks, Editor
Beckman Coulter, Inc.,
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Brea, CA 92822-8000



The Southern California

Statistician

SOUTHERN CALIFORNIA CHAPTER, AMERICAN STATISTICAL ASSOCIATION

Volume 39, No. 2

March/April 2001

Regression Graphics With Professor R. Dennis Cook

Friday, May 11, 2001 • California State University, Long Beach

R. Dennis Cook is Professor, School of Statistics, University of Minnesota. He received his BS degree in Mathematics from Northern Montana College, and MS and Ph.D. degrees in statistics from Kansas State University. He served a ten-year term as Chair of the Department of Applied Statistics, and a three-year term as Director of the Statistical Center, both at the University of Minnesota.

His research areas include linear and nonlinear regression, experimental design, statistical diagnostics, statistical graphics and population genetics. He is co-author of three books -- *Influence and Residuals in Regression*, *An Introduction to Regression Graphics*, *Applied Regression Including Computing and Graphics* - with Sanford Weisberg, and is author of the '98 Wiley book *Regression Graphics: Ideas for Studying Regressions through Graphics*. Background on his graphics work can be found at <http://www.stat.umn.edu/RegGraph>.

He has served as Associate Editor of the Journal of the American Statistical Association, the Journal of Quality Technology, Biometrika, Journal of the Royal Statistical Society and Statistica Sinica. He is a Fellow of ASA and IMS, and is an elected member of the ISI.

Workshop Agenda

8:30 - 9:00 a.m. Check-in, Continental Breakfast, and Late Registration
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 - 2:00 p.m. Lunch and Exhibits
2:00 - 3:30 p.m. Third Session

3:30 - 4:00 p.m. Exhibits
4:00 p.m. Drawing: Door Prizes - Must be present to win.

Abstract. In simple regression a 2D plot of the response versus the predictor displays all of the sample information, and can be quite helpful for gaining insights about the data and for guiding the choice of a first model. Such straightforward graphical displays of all the data are not generally possible with many predictors, but informative displays are still possible in situations where we can find low-dimensional views, the only ones that are possible in practice, that provide "sufficient" information about the regression. In regression graphics we seek to facilitate visualization of the data by reducing the dimension of the predictor vector without loss of information on the regression, defined broadly as the study of the conditional distribution of the response given the predictors, and without requiring a pre-specified parametric model. We called this sufficient dimension reduction, borrowing terminology from classical statistics. Sufficient dimension reduction leads naturally to the idea of a sufficient summary plot that contains all of the information on the regression that is available from the sample.

Sufficient summary plots can be valuable for guiding the choice of a first model, for diagnosing problems in postulated models, and for gaining fresh insights about the regression, as 2D plots are in simple regression. Seemingly complicated regressions can often be summarized adequately in a relatively simple summary plot. Sufficient summary plots allow visual solutions to many long-standing problems in regression. For example, they can be used to identify outliers and

regression mixtures without the need to pre-specify a parametric model.

We will start with a little history on regression graphics, and a discussion of the various roles for graphics in statistics. We will next discuss the population foundations for sufficient summary plots, using examples to motivate the approach and illustrate its likely advantages in practice. We will then turn to existing methodology for finding summary plots in practice and finally to current research in the area.

All of the new and existing methods to be discussed have been implemented in Arc (Cook and Weisberg 1999; www.stat.umn.edu/arc/). Illustrations, including regressions with a binary response, will be incorporated throughout the program.

Registration form is enclosed. Directions to the workshop will be mailed to those who register.

SCASA NEWS By Andy Dagis

The Southern California Chapter held two Careers Days recently. The first took place at City of Hope in Duarte, California, and was intended for metropolitan Los Angeles, Orange County and the Inland Empire. Despite the rainy day, there was a turnout of about a hundred participants. More than twenty exhibitors from industry and academia were on hand to discuss their daily activities as professional statisticians. Attendees included students considering statistics as a profession as well as individuals preparing to enter the job market. Catharine Sterling of Smith Hanley Associates gave a luncheon address entitled Careers in Statistics – From Clinical Trials to Credit Cards. Attendees were introduced to fields in business and in biopharmaceuticals in which statisticians are currently in demand. Requisite skills and credentials were discussed. Afterward, Catherine gave sessions on resume preparation and interviewing techniques while local chapter members gave sessions on working in the various industries that hire statisticians.

The second Careers Day occurred on March 3, 2001 at University of California, Santa Barbara. Details were not available at the copy deadline, but William M. O'Fallon of Mayo Clinic and Immediate Past President of ASA was scheduled to speak. His topic was "Statistical Careers in the 21st Century."

Seminars and Conferences

Interface' 2,001, to take place at the Westin South Coast Plaza Hotel in Orange County on June 13-16, 2001. This year the 33rd Symposium of the Interface of Computing Science and Statistics visits the birthplace of this series of events in Southern California in 1967. The theme is Frontiers of Data Mining and Bioinformatics and its website, <http://www.ics.uci.edu/interface>, contains information on speakers and registration.

In addition to the usual topics at Interfaces, this year's sessions will present invited experts on massive data sets, graphical models, support vector machines, Bayesian methods in bioinformatics, analyzing web data, statistical models for text, model-based clustering, computational finance, data visualization, and many more. A special day on bioinformatics will be held on June 16th with invited sessions on biological sequence analysis, gene expression data, brain imaging, and medical data management and analysis.

Contributed papers for the Interface 2,001 are due by 3/31/01, see <http://www.ics.uci.edu/interface> for more detail. Interface 2,001 needs responsible person and several helpers for registration desk; responsible person and many helpers in meeting rooms for coordination. Please address questions to Arnie Goodman at agoodman@uci.edu.

Please take note of an event to occur on June 13th in Costa Mesa immediately before the start of the Interface: the ASA Section on Statistical Computing and Graphics will host a small, one day workshop on Modern Statistical Computing in Academia. AMSTAT NEWS, January 2001, page 39 has more information, or consult www.statcomputing.org/workshops/scga on the web.

2001 S-Plus User Conference

Don't miss this exciting event taking place in Philadelphia, PA on October 18 - 19th. For more detail, please see www.insightful.com/events/2001uc/

RAND STATISTICS 25TH ANNIVERSARY SEMINAR

Professor Carl Morris, Department of Statistics, Harvard University, "Advantages Of Using the Bayesian Approach in Medical Profiling"; *Introductory remarks* by Professor John Rolph of the University of California, 3:00 p.m., Thursday, March 15, 2001. Reception to be held at 4:30 p.m., on Patio 1. For further information, or

to be added to the seminar mailing list, please contact Toya Russell at Toya_Russell@rand.org.

Abstract: Multi-level models offer many advantages for medical profiling, for example, when evaluating annual performances of the 160 U.S. Veterans Affairs hospitals. A combined Bayesian and frequentist approach to fitting these models avoids regression-to-the-mean bias, eliminates P-value misinterpretations, and facilitates using cognitively meaningful medical performance measures.

Joint RAND/USC Seminar

Allan R. Sampson, Department of Statistics, University of Pittsburgh. "A Statistician's View of the International Conference on Harmonization Guidelines", Thursday, April 5, 2001.

RAND Statistics Seminar

Linda Collins, The Methodology Center, Pennsylvania State University. Topic: TBD. Thursday, September 13, 2001.

RAND is located at 1700 Main Street, Santa Monica, CA 90401. The last two seminars will be held in the Main Conference Room with refreshments served from 3:30 p.m.; seminars begin at 4 p.m. To register and for further information, please contact Susan Paddock at (310) 393-0411, x7628, or Carolyn Rogers x7562.

California State University, Fullerton, McCarthy Hall 121, Monday, April 2, 4:00 p.m. Teaching Colloquium by Dr. David S. Moore, "Statistical Literacy and Statistical Competence for the New Century".

Abstract. In an environment in which much that once required thought is automated, what should all educated people know about data, variation, and chance? That's statistical literacy. What should someone who works with data now and then in his/her job remember from the statistics course he/she took 5 years ago? That's statistical competence. Both statistical literacy and statistical competence are important to knowledge workers, more important in most settings than the detailed mastery that constitutes statistical professionalism. This informal talk offers one opinion on the nature of statistical literacy and statistical competence, and indirectly on the teaching of statistics to beginners.

Biography. David S. Moore is the author of several leading statistics texts, as well as Shanti S. Gupta Distinguished Professor of Statistics at Purdue

University. He holds an A.B. (Princeton) and Ph.D. (Cornell) in mathematics. A distinguished researcher as well as educator, Professor Moore is an elected fellow or member of the American Statistical Association, the Institute of Mathematical Statistics, and the International Statistical Institute. He was program director for statistics and probability at the NSF, and was 1998 president of the American Statistical Association. Professor Moore has been a leader in statistics education. He developed the content of the Annenberg/PBS telecourse "Against All Odds: Inside Statistics". He has been president of the International Association for Statistical Education and a member of the National Research Council's Mathematical Sciences Education Board, and has received the Mathematical Association of America's national award for distinguished teaching of mathematics.

CSUF is located on the west side of the 57 freeway. Exit from the 57 on Nutwood Avenue. Parking passes (\$1.50) can be purchased at the Information Kiosk, located at the front of the University. Refreshments will be served. For information, please call (714) 278-3631.

Announcement

Michael Chernick has left Southern California area to become Assistant Director of Biostatistics at Novo Nordisk in Princeton, New Jersey. Michael will continue to serve as the Council of Chapters Representative for the Southern California Chapter until a replacement is found. His email address at work is mikc@nnpi.com. He can be also contacted at Novo Nordisk Pharmaceuticals, Inc., 100 College Road West, Princeton, NJ 08540. Former SCASA President, Michael was active in the Chapter and the Newsletter. Mike, good luck at your new job!!! We will miss you.

Please send items for the next issue of The Southern California Statistician to Jeff Vaks at jevaks@beckman.com

With March-April 2000 issue, we started electronic publishing of the Newsletter that is posted on the SCASA website:

<http://orion.oac.uci.edu/~mewcomb/statistics/scasa/scasa.html>.

Members who would like to receive the Newsletter electronically are asked to send their e-mail addresses to Andy Dagus, Chapter Secretary, at adagus@coh.org.

Job Opportunities

Cal State, Northridge, Information Technology/Statistics Consultant. Provides research and statistical analysis assistance to faculty and graduate students. BS in Statistics, Math or related field. Experience with commercial software. Contact Human Resources at (818) 677-2101.

Geostatistical Analyst with ESRI. Master's or Ph.D. in Geostatistics, Statistics or related field; comprehensive GIS experience preferred. Position is located in Redlands, California, USA. Send resume to jobs@esri. For more information about ESRI, visit our web site at www.esri.com.

The Department of Statistics, University of California, Riverside, Open Level Faculty a 9-month tenure-track; Ph.D. in Statistics, Biostatistics, or related field with strong statistical Genomics/Bioinformatics credentials. For more information contact Dr. Robert J. Beaver, Chair, Search Committee, Department of Statistics, University of California, Riverside, CA 92521-0138; (909) 787-3700 or Robert.beaver@ucr.edu; <http://cnas.ucr.edu/~stat/homepage.htm>.

California Teachers Study, University of Southern California, Senior SAS Data Manager (large breast

cancer cohort study data base). Permanent full-time position, Grade TJ, salary \$45-55K. E-mail: rpinder@usc.edu.

University of California, Irvine, Computer Simulation Modeler. With an interdisciplinary team, develop and expand the NIH-funded Tobacco Policy Model to estimate the long-term costs and health gains from any change in tobacco policy. Master's or Doctorate in quantitative field; experience with computer simulation. Send cover letter explaining research interests, curriculum vitae, and the names and addresses of 3 to 5 references to: Tammy Tengs, Sc.D., Health Priorities Research Group, 300 University Tower, University of California, Irvine, CA 92697-7076. Inquires at tengs@uci.edu. Info at

<http://www.healthpriorities.uci.edu>.

Kaiser Permanente Divisional Offices in Pasadena, Database Marketing Analyst. Minimum requirement BA or equivalent in Business, Economics, Marketing or Statistics. Maintain consumer database and mailing file. Database Marketing or analytical techniques. SAS, SPSS, Business Objects, Microsoft Access or other data query tools. Contact: Boris Mack, (626) 564-3905, Fax (626) 564-3699.

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The Southern California

Statistician

SOUTHERN CALIFORNIA CHAPTER, AMERICAN STATISTICAL ASSOCIATION

Volume 39, No. 3

September 2001

Critical Factors in Consulting and Collaborating: Collaboration

Statistical Literacy and Statistical Competence for the New Century, Professor David S. Moore

Workshop "Critical Factors in Consulting and Collaborating: Collaboration", takes place on October 19th at Bauer Center of the Claremont McKenna College. Please see the enclosed flier for abstract, directions and registration form.

Teaching Colloquium by Dr. David S. Moore, "Statistical Literacy and Statistical Competence for the New Century". California State University, Fullerton, Humanities 110, Monday October 15, 4:00 p.m. (this Colloquium initially was planned for April).

Abstract. In an environment in which much that once required thought is automated, what should all educated people know about data, variation, and chance? That's statistical literacy. What should someone who works with data now and then in his/her job remember from the statistics course he/she took 5 years ago? That's statistical competence. Both statistical literacy and statistical competence are important to knowledge workers, more important in most settings than the detailed mastery that constitutes statistical professionalism. This informal talk offers one opinion on the nature of statistical literacy and statistical competence, and indirectly on the teaching of statistics to beginners.

Biography. David S. Moore is the author of several leading statistics texts, as well as Shanti S. Gupta Distinguished Professor of Statistics at Purdue University. He holds an A.B. (Princeton) and Ph.D. (Cornell) in mathematics. A distinguished researcher as well as educator, Professor Moore is an elected fellow or

member of the American Statistical Association, the Institute of Mathematical Statistics, and the International Statistical Institute. He was program director for statistics and probability at the NSF, and was 1998 president of the American Statistical Association. Professor Moore has been a leader in statistics education. He developed the content of the Annenberg/PBS telecourse "Against All Odds: Inside Statistics". He has been president of the International Association for Statistical Education and a member of the National Research Council's Mathematical Sciences Education Board, and has received the Mathematical Association of America's national award for distinguished teaching of mathematics.

California State University, Fullerton, is located on the west side of the 57 freeway. Exit from the 57 on Nutwood Avenue. Going west on Nutwood, pass the Commonwealth Ave. entrance to the University and turn right into the next driveway (South Campus Dr.). Make an immediate right. The Visitor Information Center, where you can purchase a parking pass (\$1.50) and obtain a campus map, will be on your right. Please allow time for parking. Refreshments will be served. For information, please call (714) 278-3631.

SCASA News

Janet Myhre has been appointed Council of Chapters Representative to serve out Mike Chemick's remaining two years of the three year term.

Central Coast Organizational Meeting

Several SCASA members from the Santa Barbara and San Luis Obispo met Thursday, September 6 to consider the possibility of forming a new "Central Coast" Chapter of ASA. The success of last year's Careers Day at UCSB and the viability of the new San Diego Chapter have encouraged not a few members to believe a new Chapter with smaller geographical boundaries would help focus and energize the statistical community in that area. While I can't say we have unanimity, there seems to be enough of a consensus that those in attendance agreed to move forward with this endeavor. I personally think last year's Careers Day had the effect of involving many more community college and off-campus area statisticians, as well as students. If you would like to get involved in some way--even if it's to express your opinion, please contact Bob Houchens at bob.houchens@medstat.com. (Harold Dyck)

RAND conducted a Statistics Seminar on September 20th. Matthias Schonlau, Statistics Group, RAND, gave a talk on "Web Surveys: Design Considerations and Case Studies". Here is the Schonlau's abstract of the talk. "Relatively recent innovations surrounding the Internet have spawned new ways for conducting surveys: most notably electronic mail (e-mail) surveys and World Wide Web surveys. While still in its infancy when compared to the other types of survey modes, it is clear that the Internet is here to stay and this new medium is going to be used for survey data collection. I address the question of how the Internet can be used for research survey data collection based on what is known today and give some design considerations. I will present case studies that illustrate how web surveys have been used. A RAND report will appear shortly."

The Southern California Chapter of the ASA will hold its Annual Fall Kickoff on Saturday, November 17. The all day event features Julie Buring, a leading authority on women in clinical studies, and professor at Harvard Medical School. The Kickoff will be held at Claremont McKenna College. Contact Harold Dyck at hdyck@csusb.edu or (909) 880-5765 for further information.

ASA on its web site responded to the tragedy: "We recognize that many of our members reside in and/or have families and friends in the New York and Washington, DC areas. The ASA condemns the horrific events that

occurred on September 11, 2001 and extends condolences and sympathy to the families and friends of the victims of the terrorist attacks." We at SCASA have heard several reports of members affected by the events and also wish to extend our sympathy and support.

SCASA Dates to Save

October 15, Monday, Statistical Literacy and Statistical Competence for the New Century, Professor David S. Moore,

October 19, Friday, Consulting & Collaboration Workshop,

November 16, Friday, Special Chapter Celebration,

November 17, Saturday, Fall Kickoff with Julie Buring,

December (tentative), George Milliken's ASA Traveling Short Course on Mixed Models,

February 23, 2002, Saturday, Careers Day,

Spring, 2002, Applied Statistics Workshop.

Announcement

Ophthalmology, the official journal of the American Academy of Ophthalmology, is looking for individuals with expertise in biostatistics and statistical methodologies to review manuscripts submitted for possible publication. All manuscripts will be reviewed by at least one ophthalmologist/vision scientist, in addition to the Biostatistician, so expertise in ophthalmology is not required. There is no financial compensation, but you will be acknowledged as a reviewer in the December issue. If you are interested, please visit the web site for additional information and topic interest forms. These can be found at aojournal.org (then click on "peer review information"). If you wish additional information, please contact Ann Dawson, Managing Editor, at 323-442-6350 or adawson@hsc.usc.edu.

Please send items for the next issue of The Southern California Statistician to Jeff Vaks at jevaks@beckman.com

With March-April 2000 issue, we started electronic publishing of the Newsletter that is posted on the SCASA website:

<http://orion.oac.uci.edu/~newcomb/statistics/scasa/scasa.html>.

Members who would like to receive the Newsletter electronically are asked to send their e-mail addresses to Andy Dagens, Chapter Secretary, at adagens@coh.org.

Global Search

We offer employment opportunities to Statisticians and Statistical Programmers. Our candidates fill the following permanent and consulting positions:

Biostatistician
Business Analyst
Clinical Data Coordinator
Clinical Research Associate
Data Analyst
Data Manager
Data Mining Analyst
Data Warehousing Analyst
Marketing Analyst
Modeling Analyst
Pre-Clinical Statistician
Oracle Clinical Programmer
Project Director
Quality Assurance Analyst
Quantitative Direct Marketer
Regulatory Affairs Analyst
Risk Management Analyst
SAS Programmer Analyst
Scientific Programmer
Software Specialist
Statistical Analyst
Statistician
Targeting/Segmenting Analyst

Allan Harvey
Global Search
Phone: 1-800-652-5122 x308
Email: allan@gsearch.com
Website: <http://www.gsearch.com>

Job Opportunities

Washington Mutual needs statisticians at their Irvine corporate location to perform analyses supporting executive management decisions in the planning and delivery of mortgage products. Will utilize demographic, competitive and market data to provide decision support for strategic planning, marketing strategy, site selection and sales performance. We offer an excellent benefits package as well as an attractive base salary and bonus pay. Please respond by e-mail to catherine.fellers@wamu.net or call 949-833-4891.

Statistics.com, an offshoot of Resampling Stats, Inc., has just opened a new facility that lists jobs for statisticians, statistical analysts, data managers and programmers. Visit <http://jobs.statistics.com> and search the jobs, post your resume, look for an internship, more.

Opportunities for Biostatisticians with pharmaceutical or CRO industry experience. Please respond by email to nick_recruiter@hotmail.com providing your telephone number and indicating the best time you can be contacted.

The Immune Response Corp., a biopharmaceutical company, is seeking qualified applicants for the position of Director, Biostatistics. For info contact us at 5935 Darwin Court, Carlsbad, CA 92008, (760) 431-7080, jobops@imnr.com.

Novartis, Corp. a pharmaceutical Company, has several openings for Biostatisticians.
<http://www.novartis.com/businesses/pharm>.

Electronic Data System (EDS) needs a Statistician to perform statistical analysis, complex statistical calculations and develops statistical norms that can be used to identify aberrant providers in the Medicare Program. For information about EDS, you can log in the Internet by www.eds.com. Contact: Nicki Agustin, 1055 W 7th Street Fifth Floor Los Angeles, Ca. 90045, fax (213) 593-5921, e-mail nicki.agustin@eds.com.

American Statistical Association, Southern California Chapter
c/o Jeffrey E. Vaks, Editor
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The Southern California

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The Value of Probability and Statistics Symposium followed by Celebration Honoring Professor Donald L. Bentley, Nov. 16 SCASA Fall Kickoff with Harvard Prof. Julie Buring, Nov. 17

Please mark your calendars for a symposium and celebration, "The Value of Prob/Stat: Alumni of the Claremont Colleges discuss the importance of statistics in their careers." This event will be held at Claremont McKenna College on Friday, November 16. (This is the day before the Fall Kickoff with Professor Julie Buring.) SCASA will be co-sponsoring this event along with the Reed Institute for Decision Science at CMC.

For more than a third of a century, the Claremont Colleges (with professors such as Don Bentley and Janet Myhre) have had a reputation within the statistics community for their outstanding contributions to undergraduate statistics education.

This celebration will be held on Friday, November 16th in the Bauer Center of Claremont McKenna College. (The celebration continues on Saturday, November 17th at the same location for SCASA's Fall Kickoff.)

Friday morning will feature two panel discussions concerning career opportunities enhanced by the undergraduate study of statistics. Lunch is followed by a series of contributed papers on specific problems involving the application of statistics or statistics research in which graduates of the program have been involved.

Friday evening, please join us for a celebratory dinner at the Faculty House of the Claremont Colleges. After 38 years of service in the Claremont Colleges, as well as the larger statistics community, we will be honoring Professor Donald L. Bentley upon his retirement. Please join us as we congratulate and thank Don for his

outstanding contributions. Please contact me, (Harold Dyck) for details at 909-880-5765 or hdyck@csusb.edu.

Saturday, November 17, is SCASA's Fall Kick-off, with featured speaker, Julie Buring, Sc.D., Professor of Ambulatory Care and Prevention, Harvard Medical School, and Deputy Director, Division of Preventative Medicine, Brigham and Women's Hospital. Prof. Buring is an alumna of Pomona College from which she received an Honorary Doctorate of Science this last May. She will be speaking on, "Large-Scale Randomized Trials of Disease Prevention in Women: The Methods and The Message". There is more about her at: <http://www.ama-assn.org/special/womh/about/board.htm#buring>

Professor Buring's abstract:

There are a number of epidemiological strategies available to answer important and timely clinical and public health research questions. For addressing many of these, randomized trials are neither necessary nor desirable. However, if the effects of a postulated intervention are likely to be only small to moderate in size, they will be difficult to detect statistically, while still very important scientifically. In these circumstances, randomized trials with large sample sizes will be necessary to allow the researchers to definitively detect an effect if one exists, or to clearly demonstrate the lack of an effect if one doesn't.

In Part I of this presentation, we will discuss the background of clinical trials (including the issues of prevention and the inclusion of women), as well as the

general methodology of the design of trials (including sample size, endpoints, compliance, confounding, run-in, factorial design and ethical issues). In Part II, we will discuss more specific analytic issues (including intention-to-treat versus compliers-only analysis, subgroup analyses, and stopping rules for early termination) as well as some scientific findings from our studies on the prevention of heart disease.

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The Kick-off is scheduled from 9:30-3:00pm on Saturday, November 17th (registration is from 9:30-10:30); details are now posted on SCASA's Website: <http://orion.oac.uci.edu/~mewcomb/statistics/scasa/scasa.html>. The registration form is on the back cover.

Directions to CMC Bauer Center:

From the I-10 Freeway, take the Indian Hill exit north. Continue north on Indian Hill for 2 miles, turn right onto Foothill Blvd, then right on Claremont Blvd. After quarter of a mile you will see sign "Claremont McKenna College/Pitzer College" Turn right at the entrance. Continue west past the parking lot for a couple of blocks to Bauer Center (500 East 9th Street), a large three story building, on your left.

From the I-210 Freeway EASTBOUND (from Pasadena) follow Route 30 to the end of the freeway—it will merge straight into Foothill Blvd. Turn right on Claremont Blvd, then follow the above direction.

Presidents Message

As I finish my two-year term as President and graduate to the office of "Immediate Past-President", with all the rights and responsibilities thereof, I want to take the occasion of this final "President's Message" to express my thanks to and to recognize all the people who have supported me during the last two years (and more!) and put in a lot of hard work: to Bob Newcomb, who has mentored me for almost a dozen years, Arnie Goodman and Janet Myhre for their work putting together the Consulting and Collaboration Workshop, Board Members Rodney Jee, Andy Dagis, and Nancy Berman, Newsletter Editor Jeff Vaks, ASW Organizing Chair Anita Ianucci, and the rest of her team, and Council of Chapters Representative Mike Chernick. In addition, going back a few more years, there have been other former SCASA officers and friends who have made themselves available: Jim Sayre, Ken Resser, Jay Devore, Roxy Peck, Don Bentley, Dan Martinez, Srinivas Jammalamadaka, Rita Petersen and Joyce Niland (and Stan Azen, too!). And for those I've inadvertently omitted, I thank you, too!

Your SCASA Chapter is truly an outstanding community of committed members and you have much to be proud of. My best wishes to Rodney Jee and his group of continuing and new board members for the enduring success of the Chapter! **Harold Dyck**

SCASA'S NEW ASA FELLOWS

Congratulations to the 48 new ASA Fellows, including four SCASA members: Richard A. Berk and Jan de Leeuw, both Professors of Statistics at UCLA, Michael Chernick, Assistant Director of Biostatistics at Novo Nordisk Pharmaceuticals, Inc., and Allan J. Rossman, Associate Professor of Statistics, Cal Poly, San Luis Obispo. In addition, Kung-Jong Lui of San Diego State is a former member who is now with the San Diego Chapter. These new Fellows are most deserving of this prestigious honor. Congratulations to all of them!

Seminars

December 7, 2001, Exact Inference on Repeated Measures, Growth Curves, MANOVA and Mixed Models, Los Angeles, California

MLE and other widely used approximate methods in Mixed Models including Repeated Measures and Growth Curves have very serious size (false positive error) problems. Moreover, they also suffer from lack of power problems. The false positive error of MLE based tests concerning random effects of mixed models can be as large as 40% when the intended level is only 5%. Exact statistical methods are especially important in applications involving small samples and/or large variance, which is usually the case in many industrial, pharmaceutical and biomedical research, in particular. Applications of asymptotic tests and tests which ignore heteroscedasticity can lead to very serious repercussions in such situations. In this course you will learn how to perform exact procedures, testing of hypotheses and interval estimation that do not suffer from such drawbacks to detect truly significant experimental results in a timely manner. The participants will also learn how to use tools available from the software specializing in exact parametric methods, XPro. Instructor: **Dr. Sam Weerahandi**, is author of the first book specializing in exact statistical Methods, "Exact Statistical Methods for Data Analysis" from Springer-Verlag. Please visit <http://www.dataxiom.com> for complete information.

Judea Pearl and Sander Greenland, Two-Day Seminar at UCLA on Statistical Associations and Causal Connections, January 10-11, 2002

This conference is sponsored by the UCLA Department of Statistics and by the Statistical Literacy Project funded by the W. M. Keck Foundation. It will focus on causal inference in statistically-based sciences. Dr. Pearl will discuss the Renaissance that is taking place in using statistical associations to provide evidence for causal connections. He will demonstrate how simple mathematical tools can be used for this task, and will provide a gentle introduction to applying his methods in various fields including business, epidemiology, social sciences and economics. Special emphasis will be placed on the paradigmatic shifts that must be undertaken in moving from traditional statistical analysis to causal analysis of multivariate data and on the assumptions that underlie all causal inferences. Dr. Sander Greenland will present his experience in teaching this material. To request additional information be sent to you by E-mail when available (including a web link for additional information, send an E-mail to StatLit@mn.rr.com).

Dr. Judea Pearl, Professor of Computer Science and Statistics, is the Director of the Cognitive Systems Laboratory at UCLA. He is a member of the National Academy of Engineering, and the author of "Causality" (Cambridge University Press, 2000). For more on Dr. Pearl, see his web site at http://baves.cs.ucla.edu/jp_home.html.

Dr. Sander Greenland, Professor in the Department of Epidemiology, teaches "Logic, Causation and Probability" and "Statistical Modeling in Epidemiology". He is a Fellow of the ASA and a co-author (with K. Rothman) of "Modern Epidemiology" (1998).

January 4-5, 2002. For Teachers of INTRODUCTORY STATISTICS, Beth Chance and Allan Rossman - Presenters from Dept. of Statistics, California State Polytechnic Univ., San Diego, CA, 2-

day course (www.amstat.org, click on Education for on-line registration). For questions/more information, please contact: madge@amstat.org. Designed for instructors from universities, colleges, junior colleges and high schools, Teaching Contemporary Statistics with Active Learning prepares instructors to incorporate the recent recommendations of the ASA/MAA Joint Committee on Undergraduate Statistics. These recommendations are: 1) to teach statistical thinking, 2) to emphasize more data and concepts, less theory and fewer recipes, and 3) to foster active learning. The course will actively involve participants with hands-on investigations that can be adopted for use with students. Activities cover such topics as sampling and experimental design, exploratory data analysis, randomness, and statistical inference. Sessions will also be devoted to using authentic assessment techniques, student projects, and resources for teaching statistics.

SCASA 2002 Dates to Save

February 9, George Milliken's ASA Traveling Short Course on Mixed Models at CSU Long Beach,
February (tentative), Prof George Tiao, is scheduled to be speaking in the Southern California area on topic to be determined
February 23, Saturday, Careers Day,
April 19, (tentative) the Applied Statistics Workshop.

Please send items for the next issue of The Southern California Statistician to Jeff Vaks at jevaks@beckman.com

With March-April 2000 issue, we started electronic publishing of the Newsletter that is posted on the SCASA website:

<http://orion.oac.uci.edu/~mewcomb/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.

Job Opportunities

Positions, located in Chicago or San Diego, are available for **Statistician and Statistics Manager** in clinical trials experience with a Pharmaceutical company. Contact Adam Halick at (303)757-2311.

STATPROBE, a full-service CRO, is currently looking for experienced Biostatisticians and SAS Programmers with pharmaceutical or clinical trials experience to work in our San Diego office. For more info contact Fay M. Poissant, at hr@statprobe.com.

Assistant Professor, Biostatistics and Epidemiology, Department of Health Sciences, California State University at Northridge, is opening in the fall of 2002. Inquiries and nominations to be addressed to: Miriam Piven Cotler, Ph.D., Chair, Department of Health Sciences, (818) 677-3101, miriam.cotler@csun.edu, <http://hhd.csun.edu/hs>
Assistant Professor tenure track position in Genomics/Bioinformatics. Evaluation of applicants begins January 15, 2002. Inquiries to Dr. Subir

Ghosh, Chair, Search Committee, Department of Statistics, University of California, Riverside, CA 92521-0138, ghosh@ucr.ac1.ucr.edu, <http://www.cnas.ucr.edu/~stat/homepage.htm>

For various positions in **Statistics and Scientific Programming** contact Allan Harvey of Global Search at 1-800-652-5122, x308, allan@gsearch.com, <http://www.gsearch.com>

Department of Public Health and Preventive Medicine at Oregon Health & Science University. Two positions in biostatistics at the level of Assistant Professor expected in July 2002. To

apply and for questions contact Jodi Lapidus, Ph.D., Public Health and Preventive Medicine, at lapidusj@ohsu.edu. See department website at <http://www.ohsu.edu/som-PubHealth>, Kforce Inc., Pharmaceutical Division. Ongoing opportunities available in Biostatistics, SAS Programming and Data Management with leading Pharmaceutical and Biotech companies throughout California. Contact Chelsea L. Mancuso at (800) 592-2334, ext. 1633, (858) 550-1633, fax (858) 552-9071, cmancuso@kforce.com.

Reservation Form

Yes, I look forward to attending!

Please reserve _____ lunches, Friday, Nov. 16, cost \$10 each

Please reserve _____ dinners, Friday, Nov. 16, cost \$30 each

Please reserve _____ lunches, Saturday, Nov. 17, cost \$15 each

I have special dietary needs _____

Name _____

Guest _____

Please send by Nov. 13, to Harold Dyck/Department of Information & Decision Sciences Cal State University, San Bernardino/San Bernardino, CA 92407, e-mail: hdyck@csusb.edu, phone: 909-880-5765

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