



WSS NEWS

WASHINGTON
STATISTICAL
SOCIETY

February 2005

THE JEANNE E. GRIFFITH MENTORING AWARD

On receiving the Roger Herriot Award in June 2001, Jeanne E. Griffith said:

One of the most rewarding aspects (of Federal statistics) for me was the opportunity to promote creative activities and energies among my staff... When I have had the blessing to mentor young people in their careers, I have tried to emphasize..... (that) only they, themselves, can make the most of (the)....chances that life presents.

Dr. Griffith died in August 2001 after working for more than 25 years in the Federal statistical system. Throughout her career, and especially in her latter senior management positions at the National Center for Education Statistics and the National Science Foundation, one of Jeanne's *highest* priorities was to mentor and encourage younger staff at all levels to learn, to grow, and to recognize and seize career opportunities as they came along.

The Jeanne E. Griffith Mentoring Award has been established to encourage mentoring of younger staff in the Federal statistical system. It is presented annually, beginning in 2003, to a supervisor who is nominated by co-workers and supervisors, and chosen by the Award Selection Committee.

The award is co-sponsored by the Interagency Council on Statistical Policy, the Council for Excellence in Government, the Washington Statistical Society, the Social Statistics and Government Statistics Sections of the American Statistical Association, and the Council of Professional Associations on Federal Statistics.

Nominations for 2005 will be accepted beginning in February 2005. The last date for submission of nominations is April 1, 2005, and the Award Committee will make its determination of the award winner by May 1, 2005. The award will consist of a \$1000 honorarium and a citation, which will be presented at a ceremony arranged by the co-sponsors in June 2005. The winning mentor will be selected for his or her efforts in supporting the work and developing the careers of younger staff.

For further information on the award, contact Ed Spar, Council of Professional Associations on Federal Statistics (COPAFS) by phone: 703-836-0404; fax: 703-684-3410; or by e-mail at copafs@aol.com. The nomination cover sheet and guidelines form—or a photocopy of it—should be attached to a nomination memorandum or letter. Forms can be obtained by contacting Ed Spar, or by downloading from the COPAFS website at <http://www.copafs.org>. All nominations should be returned to the Jeanne E. Griffith Mentoring Award Committee, c/o COPAFS, 1429 Duke Street, Alexandria, VA 22314 no later than April 1, 2005.

| WSS and Other Seminars (All events are open to any interested persons) | | |
|--|-------|--|
| February | | |
| 15 | Tues. | Documenting Atrocities in Dafur |
| 16 | Wed. | News, Noise, and Estimates of the "True" Unobserved State of the Economy |
| 17 | Thur. | Accumulated Respondent Burden on NASS Surveys |
| 24 | Thur. | An Efficient Method of Estimating the True Value of a Population Characteristic from its Discrepant Estimates |
| March | | |
| 16 | Wed. | The Conservation Effects Assessment Project (CEAP) -An Overview |

Also available on the Web at the following URL: <http://www.science.gmu.edu/~wss>

Announcements

SIGSTAT Topics

February 9, 2005 : Graphics with R (<http://www.r-project.org/>)

The ease of making graphs in R is one of its strongest attractions. Some examples of making graphs were discussed in Part I. In this second part, the topics of making graphs which are annotated with equations, of putting multiple graphs on a single page, and of using polygons will be discussed. Mike Fleming will be the speaker.

March 9, 2005: PROC UCM - Unobserved Component Models (<http://www.sas.com>)

Unobserved Component Models are very general time series models that incorporate trends, seasonality, cycles, regression effects, and autoregressive effects. Trends and seasonality can be allowed to change randomly. UCMs can be considered as generalizations of ARIMA and smoothing models. The basics of UCMs will be covered as well as some examples. PROC UCM is new in SAS/ETS version 9. Charlie Hallahan will be the speaker.

April 20, 2005: PROC ROBUSTREG - Robust Regression Methods (<http://www.sas.com>)

The experimental ROBUSTREG procedure in SAS/STAT version 9 provides resistant (stable) results in the presence of outliers by limiting the influence of outliers. ROBUSTREG provides four robust methods: M estimation by Huber (1973), Least Trimmed Squares (LTS) estimation by Rousseeuw (1984), S estimation by Rousseeuw and Yohai (1984), and MM estimation by Yohai (1987). Charlie Hallahan will be the speaker.

May 11, 2005: PROC QLIM - Qualitative and Limited Dependent Variable Models (<http://www.sas.com>)

The QLIM (Qualitative and Limited dependent variable Model) procedure analyzes univariate and multivariate limited dependent variable models where dependent

variables take discrete values or dependent variables are observed only in a limited range of values. This procedure includes logit, probit, tobit, and general simultaneous equations models. The simultaneous equations model can contain discrete choice and limited endogenous variables as well as continuous endogenous variables. Charlie Hallahan will be the speaker.

SIGSTAT is the Special Interest Group in Statistics for the **CPCUG**, the Capital PC User Group, and **WINFORMS**, the Washington Institute for Operations Research Service and Management Science. All meetings are in Room S3031, 1800 M St, NW from 12:30 to 1:30. Enter the South Tower & take the elevator to the 3rd floor to check in at the guard's desk. First-time attendees should contact Charlie Hallahan, 202-694-5051, hallahan@ers.usda.gov, and leave their name. Directions to the building & many links of statistical interest can be found at the **S I G S T A T** website, <http://www.cpcug.org/user/sigstat/>.

Note from the WSS NEWS Editor

Items for publication in the April WSS NEWS should be submitted no later than February 22, 2005. Items for publication in the May WSS NEWS should be submitted as soon as possible. The May WSS NEWS will be sent to the printer and the electronic communication committee for dissemination on March 31. The editor will be in Germany during April. E-mail items to Michael Feil at michael.feil@usda.gov.

Program Announcement

- Topic:** Documenting Atrocities in Dafur
- Speakers:** Jonathan P. Howard, Research Analyst, Sub-Saharan Africa, U.S. Department of State
Stefanie Frease, Director of Programs, Coalition for International Justice
- Chair:** Wendy Rotz
- Date/Time:** Tuesday, February 15, 2005 /12:30 - 2:00 p.m.
- Location:** BLS Conference Center, Room 12 To be placed on the seminar attendance list at the Bureau of Labor Statistics you need to e-mail your name, affiliation, and seminar name to wss_seminar@bls.gov (underscore after 'wss') by noon at least 2 days in advance of the seminar or call 202-691-7524 and leave a message. Bring a photo ID to the seminar. BLS is located at 2 Massachusetts Avenue, NE. Use the Red Line to Union Station.
- Sponsors:** WSS Methodology Section, DC-AAPOR, AAAS Science and Human Rights Program
- Abstract:** This past summer, the State Department and USAID's Office of Transition Initiatives partnered with the Coalition for International Justice (CIJ) to conduct a survey of refugees fleeing the Darfur crisis. CIJ assembled and led a team of close to thirty interviewers from around the world who, along with staff from the State Department and OTI, conducted over 1,200 interviews in Chad with refugees from Darfur over a six-week period in July and August. The project was ground-breaking in its application of random-sample survey methodology in the midst of a humanitarian crisis. The data and report generated by the Darfur Atrocities Documentation Team was cited by Secretary of State Colin Powell in his historic September 9, 2004 determination that genocide is occurring in the Darfur region of Sudan.

During this talk, Jonathan P. Howard, a research analyst with the State Department who served as the team's survey methodologist, will discuss the methodology applied by the team as well as the challenges faced by methodologists in humanitarian crisis zones. Stefanie Frease, Director of Programs for CIJ, is a former investigator at the International Criminal Tribunal for the former Yugoslavia and led the data collection team in Chad. She will talk about the various elements required in planning, deploying and conducting a targeted data collection mission in a challenging environment.

Program Announcement

Title: **News, Noise, and Estimates of the "True" Unobserved State of the Economy**

Speaker: Jeremy Nalewaik, Bureau of Economic Analysis

Discussant: Robert Dennis, Congressional Budget Office

Chair: Karen Pence, Federal Reserve Board

Date/time: Wednesday, February 16, 2005/12:30 - 2:00 p.m.

Location: BLS Conference Center. To be placed on the seminar attendance list at the Bureau of Labor Statistics you need to e-mail your name, affiliation, and seminar name to wss_seminar@bls.gov (underscore after 'wss') by noon at least 2 days in advance of the seminar or call 202-691-7524 and leave a message. Bring a photo ID to the seminar. BLS is located at 2 Massachusetts Avenue, NE. Take the Red Line to Union Station.

Sponsor: WSS Economics Section

Abstract: Which is a better indicator of the "true" state of the economy, gross domestic product (GDP) or gross domestic income (GDI)? Taking a weighted average of the two measures may produce the best estimate, but in choosing weights this question must be confronted. In prior attempts to do so, analysts have often assumed that the difference between the "true" state of the economy and each estimate is pure noise, down-weighting estimates with greater variance as they are assumed to be noisier. In contrast, we show that each difference could be viewed as a piece of pure news, in which case a greater variance warrants a larger weight as it reflects more information about the "true" state of the economy. Additional considerations must be brought to bear to produce sensible weights; using information from revisions to GDP and GDI, we show that the news assumption is probably the closer approximation to reality, in which case GDP would receive the larger weight.

Program Announcement

- Title:** **Accumulated Respondent Burden on NASS Surveys**
- Speakers:** Suzette Qualey, NASS
- Chair:** Kathy Downey, Bureau of Labor Statistics
- Date/Time:** Thursday, February 17, 2005 / 12:30 - 2:00 p.m.
- Location:** Bureau of Labor Statistics, Conference Center Room 1. To be placed on the seminar list attendance list at the Bureau of Labor Statistics you need to e-mail your name, affiliation, and seminar name to wss_seminar@bls.gov (underscore after 'wss') by noon at least 2 days in advance of the seminar or call 202-691-7524 and leave a message. Bring a photo ID to the seminar. BLS is located at 2 Massachusetts Avenue, NE. Use the Red Line to Union Station.
- Sponsor:** Methodology Section, WSS
- Abstract:** USDA's National Agricultural Statistics Service (NASS) provides statistical information and services to farmers, ranchers, agribusinesses and public officials. Most of the data published is derived from surveys of farmers across the country, which is a relatively small population. Many producers are contacted repeatedly and the survey respondent burden placed upon farmers is an important issue to NASS. Respondent burden consists of many factors, including the interview length and question difficulty. Burden is accumulated over time when a respondent is in a panel study or selected for multiple surveys. Accumulated respondent burden, therefore, also includes the number of surveys a participant is selected for and the length of time between interviews. Respondent burden is often linked in discussions with response rates, and one common theory is that greater respondent burden is correlated with lower response rates.
- This discussion presents results summarizing responses from many of NASS' major agricultural surveys conducted from January 2000 through December 2003. Survey response data were combined from 184 surveys and included over 2.2 million survey records with 579,531 farming operations. Response rates were evaluated by the number of surveys operations were in during the four-year study period. In addition, prior respondent burden was compared between participants and non-participants for several individual surveys.

Program Announcement

Title: **An Efficient Method of Estimating the True Value of a Population Characteristic from its Discrepant Estimates**

Speaker: P.A.V.B. Swamy

Moderator: Charlie Hallahan, ERS/USDA

Discussant: TBD

Date/time: Thursday, February 24, 2005/12:30 - 2:00 p.m.

Location: BLS Conference Center. To be placed on the seminar attendance list at the Bureau of Labor Statistics you need to e-mail your name, affiliation, and seminar name to wss_seminar@bls.gov (underscore after 'wss') by noon at least 2 days in advance of the seminar or call 202-691-7524 and leave a message. Bring a photo ID to the seminar. BLS is located at 2 Massachusetts Avenue, NE. Take the Red Line to Union Station.

Sponsor: Statistical Computing Section

Talk to be video-conferenced.

Abstract: In the context of sample surveys, an estimator for a domain (or a subpopulation) such as a geographical area, a socio-demographic group, or an industry group is referred to as "direct" if it uses values of a variable only from the sample units within the domain. A domain is considered as small if the domain sample size is not large enough to yield direct estimates of adequate precision and large otherwise. The standard design-based mode of inference used in survey analysis may produce reliable domain estimates if the domains are large. Strengths and weakness of design-based inference for surveys are discussed in the statistics literature. Reliable estimates for small domains can only be produced by moving away from the design-based estimation of conventional direct estimates to indirect model-dependent estimates. Naturally, concerns are raised about the reliance on models for the production of small domain estimates. The major weakness of model-based inference is that if the model is seriously misspecified, then it can yield inferences that are much worse than design-based inferences. In this paper, we consider a situation where a generalized errors-in-the-variables model for small domains is appropriate to the available data. This model has the virtues of (i) avoiding certain model misspecifications and (ii) yielding good approximations to preferred design-consistent estimators.

Program Announcement

- Title:** **The Conservation Effects Assessment Project (CEAP) -An Overview**
- Speaker:** Robert L. Kellogg, Natural Resources Conservation Service, USDA
- Chair:** Mike Fleming
- Date/time:** Wednesday, March 16, 2005 12:30 - 2:30 p.m.
- Location:** Bureau of Labor Statistics Conference Room 10. BLS is located at 2 Massachusetts Avenue, NE. Use the Red Line to Union Station. Please use the First Street NE, entrance to the Postal Square Building and bring photo ID.
- Sponsor:** WSS Agriculture and Natural Resources Section
- Abstract:** The Natural Resources Conservation Service (NRCS) and the Agricultural Research Service (ARS) have joined together in collaboration with other Federal agencies and universities to initiate studies that will quantify the environmental benefits of conservation practices. A national assessment is being implemented to track environmental benefits over time at the national scale. In selected regions, watershed studies are being initiated to provide more in-depth assessments at a finer scale of resolution. This presentation will provide a brief overview of the CEAP effort and summarize the analytical approach being used to assess benefits of conservation practices on cropland. The approach is based on microsimulation modeling using a subset of the Natural Resources Inventory (NRI) sample. The CEAP sample consists of 30,000 NRI sample points where additional information on farming practices and conservation practices have been collected from farmers by the National Agricultural Statistics Service.

CDC/ATSDR Symposium

CDC/ATSDR SYMPOSIUM COMES TO WASHINGTON AREA

“Statistics and Public Health Policy” is the theme of the Tenth Biennial CDC and ATSDR Symposium on Statistical Methods, to be held March 1 to 2, 2005, in Bethesda, Maryland. This marks the first time that the Atlanta-based Centers for Disease Control (CDC and the Agency for Toxic Substances and Disease Registry (ATSDR) will hold their Symposium in the Washington area, providing a great opportunity for Washington area statisticians and health policy analysts to get acquainted with recent research in an area of growing importance nationally. A one-day short course, “Dealing with Frame Error and Nonresponse in Surveys,” taught by William Kalsbeek of the University of North Carolina, will precede the Symposium. As in 2003, the WSS is cosponsoring the Symposium, and WSS members will receive discounted registration fees for both the Symposium and the short course. There is an additional discount for students. Registration for both events is free to CDC employees.

The program for the Symposium will feature four invited paper sessions, an invited panel session, nine contributed paper sessions (three concurrently), and more than a dozen contributed posters. The first invited paper session, on “Sampling, Surveys and the Role of Observational Data in the Development of Public Health Policy,” will include presentations by Robert Groves, Graham Kalton, and Nathaniel Schenker. The second invited paper session, “Determining the Effects of Public Health Interventions,” will feature presentations by Monroe Sirken and William Kalsbeek. The third invited paper session, on “Bioterrorism, Biometrics and Security,” will have presentations by Joe Scanlon, Martin Kulldorff, and Henry Rolka. The fourth invited paper session, “Evaluating Causation,” will include presentations by Susan Murphy and Alan Zaslavsky. The invited panel session, organized by the Center for Discrete Mathematics and Computer Science (DIMACS) at Rutgers University, will feature a discussion of “Statistical Issues in Public Health Surveillance for Bioterrorism Using Multiple Data Streams.” Participants will include Howard Burkom, Gregory F.Cooper, Martin Kulldorff, David Madigan, and Henry Rolka.

The Bethesda Marriott site, located on Pooks Hill Road off of Rockville Pike, has extensive parking and is accessible by Metro rail. The hotel operates a shuttle to the Medical Center station. Taxi cabs are available at Medical Center and the adjacent Grosvenor and Bethesda stations.

A registration form for both the Symposium and the short course is included in this newsletter. You are encouraged to register as soon as possible, as space is limited. Registration for the short course will be capped at 200 while registration for the Symposium will be limited to 400. Openings will be filled on a first come, first served basis. Note, too, that registration fees will increase on February 1. Further information on the Symposium and short course can be obtained from the Symposium web site, which can be reached through the WSS web site, under Courses.

Symposium

Title

First Interdisciplinary Symposium on Statistical Challenges and Opportunities in Electronic Commerce Research

Location and Date

May 22-23, 2005, Robert H. Smith School of Business, University of Maryland, College Park

Chairs

Wolfgang Jank and Galit Shmueli

Steering Committee

Stephen Fienberg (CMU), Donald Rubin (Harvard), Chrysanthos Dellarocas (University of Maryland), Erik Brynjolfsson (MIT), Joni Jones (University of South Florida)

**Abstract Deadline
February 28, 2005**

Website

www.smith.umd.edu/dit/statschallenges/

Contact

Wolfgang Jank wjank@rhsmith.umd.edu

Description

Electronic commerce produces an increasing amount of data-related questions and problems. Modern web-crawling technologies, which allow for a convenient collection of data from the Internet, result in huge databases. The openness of online marketplaces allows competitors to observe each others moves.

Traditional statistical models are not designed for the amount of data found on the web. They are also not suited to take into account the dynamics of online transactions as competitors react to each others moves in real time. This workshop focuses on identifying problems and research questions related to empirical research in electronic commerce by bringing together researchers from Information Systems, Statistics and related fields to help better understand how these various lines of work connect to one another and how, together, they can contribute to the modernization and enhancement of empirical research methods for electronic commerce and our digital society at large.

Applied Econometric Courses

Summer Program in Applied Econometrics
Week Long Classes
Department of Economics, American University

Basic Objective: The primary purpose of the summer program in applied econometrics is to provide students, researchers and faculty with state of the art econometric/statistic methods for analyzing data in the Social Sciences. Examples include Bayesian Econometrics, Information and Entropy Econometrics, Applied IO, Generalized Method of Moments, Nonparametric and Forecasting, and Time Series.

Each day of the week-long course consists of morning lectures that develop the basic concepts and philosophy as well as their applications to real economic problems and data. Each afternoon, these methods will be applied and practiced in the computer lab. These daily tutorials and work in the computer lab provide students with “hands on” experience in using these methods with real data.

First Course: Information and Entropy Econometrics

The primary purpose of this class is to provide the background for understanding both (i) the theory, and (ii) to develop the necessary theoretical and empirical tools for practicing the theory in a wide range of economic/econometric estimation problems.

Dates: May 16-20, 2005

Location: American University

The course may be of interest to

- PhD students interested in new methods of estimation. Students from American University and other universities are welcome.
- Researchers, faculty, professional economists and econometricians who work in support of decision making in government agencies as well as the private market.

The registration deadline is May 1, 2005.

For more information, contact and Course Syllabi contact the Economics Department or look at: http://www.american.edu/cas/econ/summerprogram/summer_program.htm

Symposium

The 2nd Conference on Information and Entropy Econometrics: Theory, Method, and Applications in Honor of George Judge will be held on September 23-25, 2005 at the American University, Washington DC.

Conference Objectives: This conference will (i) study and explore Information-Theoretic (IT) solutions for linear and nonlinear estimation and inference problems, (ii) facilitate the exchange of research ideas in that field, (iii) promote collaboration among researchers from different disciplines, and (iv) highlight the major trends in Information and Entropy Econometrics.

The Second IEE Conference will concentrate on the most recent (theoretical and applied) research in linear and non-linear IT and entropic procedures (Bayesian and non-Bayesian), with emphasis on modeling and measuring information. In addition, the conference will deal with the interpretations and meaning of the solutions to IT estimation and inference (e.g., statistical meaning, complexity and efficiency as well as informational meaning). Both theory and innovative applied papers will be included. Conference topics include theory and methods and applications in various fields. The deadline for submitting a paper for presentation is April 30, 2005. The registration deadline is to be determined.

Program and Advisory Committee: Anil Bera, U. Illinois; Bertrand Clarke, UBC; Amos Golan, American U. (Chair); Alastair Hall, NCState; Yuichi Kitamura, Yale; Essie Maasoumi, SMU; Eric Renault, UNC at Chapel Hill; Ehsan Soofi, U. Wisconsin-Milwaukee; Michael Stutzer, U. Colorado-Boulder; Arnold Zellner, U. Chicago.

For additional and updated information about the conference, please look at the conference Web page at <http://www.american.edu/cas/econ/faculty/golan/conference2.htm> or contact Amos Golan at agolan@american.edu.

Employment

As a service to local statisticians, WSS News provides notification of employment opportunities and description of those seeking employment here in the Washington, DC, area. Readers are encouraged to take advantage of this feature of the newsletter. The deadline for inserting notices is five (5) weeks before the publication date. Those interested should email or call Anne Peterson, at apeterson@insightpolicyresearch.com or (703) 387-3032.

Position Sought

Masters level Statistician looking for a job. Experience covers survey sampling, logistic regression, Power Calculation, categorical analysis, SAS, SPSS, CHAID, WESVAR. Please contact : farzanadamin@yahoo.com, cell# 202 441 9661

Economist

The Surface Transportation Board (STB) is seeking interested applicants for Economist positions at the GS-13/14 grade levels. The STB serves as both an adjudicatory and regulatory body with jurisdiction primarily over railroad rate and service issues and rail restructuring transactions. The Economist vacancies are located in the Office of Economic Analysis which supports the STB's decision making process through economic, cost, financial and engineering analyses. Incumbents of these positions will be expected to determine the major issues of a particular rate case and evaluate the importance of economic, cost, financial, traffic, and statistical evidence supplied by the parties. Qualifications requirements include demonstrated experience applying professional knowledge of industrial organization economics, statistics and econometrics as well knowledge of costing theory and the ability to communicate effectively orally and in writing. There are also minimum education requirements for these positions. Salaries are competitive and can range from \$72,782 - \$97,213 for the GS-13 and \$88,369 - \$114,882 for the GS-14. The STB also offers a very competitive benefits package. For complete information

on qualifications requirements, benefits and instructions on how to apply, please visit www.usajobs.opm.gov and search for Vacancy Announcement #s DD202317 and DD202316. For more information you may also contact Joy Charles by phone or e-mail at 202-565-1691 or joy.charles@stb.dot.gov.

WESTAT

Westat is an employee-owned corporation headquartered in the suburbs of Washington, DC (Rockville, Maryland). We provide statistical consulting and survey research to the agencies of the U.S. Government and to a broad range of business and institutional clients. With a strong technical and managerial staff and a long record of quality research, Westat has become one of the leading survey research and statistical consulting organizations in the United States.

Our company was founded in 1961 by three statisticians. The current staff of more than 1,700 includes over 60 statisticians, as well as research, technical, and administrative staff. In addition, our professional staff is supported by data collection and processing personnel situated locally and in field sites around the country. The work atmosphere is open, progressive, and highly conducive to professional growth.

Our statistical efforts continue to expand in areas such as the environment, energy, health, education, and human resources. Westat statisticians are actively involved in teaching graduate-level courses in statistical methods and survey methodology in collaborative arrangements with area colleges and universities. We are currently recruiting for the following statistical position:

Survey Sampling Statistician (Job Code WSS/DRM/5001)

Three or more years of relevant experience in sample design and selection, frames development, weighting, imputation, and variance estimation. Must have a master's or doctoral degree in statistics and have excellent writing skills. Coursework in sample survey design highly desirable.

Westat offers excellent growth opportunities and an outstanding benefits package including life and health insurance, an Employee Stock Ownership Plan (ESOP), a 401(k) plan, flexible spending accounts, professional development, and tuition assistance. For immediate consideration, please send your cover letter, indicating the Westat Job Code, and resume by one of the following methods to: *[Job Code is REQUIRED to apply]* Westat, Attn: Resume System, 1650 Research Boulevard, Rockville, MD 20850-3195; Email: resume@westat.com ; FAX: (888) 201-1452. We are an Equal Opportunity Employer.

JPSM Course Announcement

“BAYESIAN INFERENCE IN SURVEYS” is a two-day short course sponsored by the Joint Program in Survey Methodology on May 10-11, 2005 at the Inn and Conference Center, Adelphi, Maryland. The instructors are Trivellore E. Raghunathan and Roderick Little (University of Michigan). The objective of this course is to describe the application of the Bayesian approach to survey sampling, where the focus of inference is on finite population quantities. Both instructors (Little and Raghunathan) have conducted research in Bayesian methods, and have developed applications to real-world problems.

The course will be held at the University of Maryland Inn & Conference Center, College Adelphi, Maryland. It is located on University Boulevard (Route 193) at Adelphi Road, adjacent to the College Park campus of the University. Convenient parking in the UMUC garage is included in the registration fee. For hotel room reservations, call the Conference Center at (800) 727-8622. Lunch and refreshments are included in the fee. Registrants will be provided with a notebook containing detailed course notes. The registration fee for employees at sponsoring agencies and affiliates is **\$550**, **\$550** for full-time university students, and **\$730** for other participants. Payment by credit card is required. Post registration payment may be done online using the registrant's confirmation number or by calling (800) 937-9320. Payment is required by **April 26, 2005**. Online registration is required. Confirmation of registration will be sent after the

registration form has been processed. Registration is not firm until you receive a confirmation email. The email will include directions to the course. Payment by credit card is required. Post registration payment may be done online using the registrant's confirmation number or by calling 800-937-9320. The registration deadline is **April 26, 2005**.

Please notify JPSM as soon as possible if you need to cancel your registration. Cancellation requests should be done online. You will be fully reimbursed if you cancel by **April 26, 2005**. Cancellation **April 27-May 2, 2005** will require a \$100 administrative fee, the remainder will be reimbursed. Cancellation on or after **May 3, 2005** is subject to the full fee amount.

Questions for this course should be directed to the JPSM Short Course, Institute for Social Research, University of Michigan, 426 Thompson Street, Room 4050, Ann Arbor, MI 48106-1248, Phone: (800) 937-9320, Fax: (734) 764-8263, Email: jpsmshort@isr.umich.edu.



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| John Dixon | 202-691-7516 | Steve Cohen | 301-427-1466 | Science Fair Coordinator | |
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