



WSS NEWS

September 2006

WASHINGTON
STATISTICAL
SOCIETY

Congratulations!

With 245 members voting, the following were elected to the WSS board of directors:

President-elect
Michael P. Cohen

Methodology Program Chair
Meena Khare

Representative at Large
Polly Phipps
Allen Schirm

Treasurer
Daniell Toth

We congratulate the winners and express our thanks to the other candidates.

Congratulations are also in order for the WSS members who were recently elected Fellows of the American Statistical Association:

Stuart G. Baker, National Cancer Institute
Zhaohai Li, George Washington University
Donald Malec, U.S. Census Bureau
Wendy Martinez, Office of Naval Research

16th Annual Morris Hansen Lecture

Michael F. Goodchild, Professor of Geography (University of California, Santa Barbara) will give the 16th Annual Morris Hansen Lecture on Monday November 6 at 330pm in the Jefferson Auditorium of the Department of Agriculture's South Building (Independence Avenue SW, between 12th and 14th Street).

Dr. Goodchild will speak on "Statistical Perspectives on Spatial Social Science." Sarah Nusser (Iowa State University) and Linda Pickle (National Cancer Institute) will be the discussants. A reception will follow the lecture. The Hansen Lecture Series is sponsored by the Washington Statistical Society, Westat, Inc, and the National Agricultural Statistics Service.

Federal Committee On Statistical Methodology Statistical Policy Seminar

**Keeping Current: What We Know – What We Need To Learn
November 28-29, 2006**

**The Eighth in a Series of Seminars Hosted by COPAFS
(The Council of Professional Associations on Federal Statistics)**

Participants will include Statisticians, Economists, and Managers, as well as Other Professionals in the Broader Statistical Community who Share an Interest in Keeping Current on Issues Related to Federal Data

Support Provided by:

Agency for Healthcare Research and Quality * Bureau of Economic Analysis * Bureau of Justice Statistics * Bureau of Labor Statistics * Bureau of Transportation Statistics * Energy Information Administration * Environmental Protection Agency * National Agricultural Statistics Service * National Center for Education Statistics * National Center for Health Statistics * Office of Research, Evaluation, and Statistics of the Social Security Administration * Statistics of Income Division of the Internal Revenue Service * U.S. Census Bureau

Topics:

- * The Quality of Administrative Records for Statistical Uses
- * Longitudinal Survey Designs: Current Best Practices and Continuing Challenges
- * Providing Researchers Access to Federal Data
- * The Future of Telephone Surveys
- * Positioning the Federal Statistical System to Quickly Respond to Data Needs in Times of Crisis or Catastrophe
- * Nonresponse Bias Analyses in Federal Surveys
- * Incentives – New Results on the Effects of Incentives
- * Total Survey Error in Economic Statistics
- * How to Encourage Innovation
- * Using Internet Panels For National Data
- * Modeling Survey Costs: Towards a Research Agenda
- * Establishing Archival Data Systems for Agency Historical Information

Keynote Address: Kenneth Prewitt, Columbia University

Location and Cost:

L'Enfant Plaza Hotel, 480 L'Enfant Plaza, S.W., Washington D.C. 20024
To Reserve a Room Call: 202-484-1000

Seminar Registration Cost: \$195.00 per person

A Registration Form Can Be Downloaded From Our Site At: www.copafs.org

For Further Information, Contact the COPAFS Office at:

Phone: 703-836-0404

Email: copafs@aol.com

WSS and Other Seminars

(All events are open to any interested persons)

September

1 Fri. Integration of Gene Expression and Copy Number

12 Tues. Economic Turbulence: Is a Volatile Economy Good for America?

19 Tues. Prediction of Finite Population Totals Based on the Sample Distribution

October

24 Tues. Protecting the Confidentiality of Commodity Flow Survey Tabular Data by Adding Noise to the Underlying Microdata

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

Conference Announcement

Applied Demography Conference

The first of the 21st century's biennial Applied Demography conferences will be held at the Crown Plaza Hotel in downtown San Antonio, TX, January 7th to 9th, 2007 (A reception will be held the evening of Sunday, January 7th), with a full day of sessions on Monday, January 8th and half a day of sessions on Tuesday, January 9th.

The Conference is sponsored by the Department of Demography and Organization Studies and the Institute for Demographic and Socioeconomic Research at the University of Texas at San Antonio, both of which are headed by Dr. Steve Murdock. (For details on the Department and the Institute, see <http://utsa.edu/copp/Demography/index.html>).

David Swanson is serving as the Program Organizer for the Conference. A call for papers will be issued soon, followed by the conference program, which will include a list of sessions and participants.

Questions concerning the program can be directed to:

David A. Swanson, Ph.D.
Professor of Sociology
Chair, Department of Sociology and Anthropology
Director, Center for Population Research
University of Mississippi
P.O. Box 1848
University, MS 38677-1848 USA

tel. + (1) 662 915 7430

FAX + (1) 662 915 5372

email dswanson@olemiss.edu

Note from the WSS NEWS Editor

Items for publication in the November issue of the WSS NEWS should be submitted no later than September 26, 2006. E-mail items to Michael Feil at michael.feil@usda.gov.

Program Announcement

- Title:** **Integration of Gene Expression and Copy Number**
- Speaker:** Debashis Ghosh, PhD
- Date/time:** Friday, September 1, 2006 / 10:00 - 11:00 AM
- Location:** 3950 Reservoir Road, NW, Research Building, Conference Room E501, Georgetown University Medical Center, Washington, DC 20057
- Sponsor:** Department of Biostatistics, Bioinformatics and Biomathematics. For information please contact Marina E. Vacaru at 202-687-4114 or emv6@georgetown.edu
- Abstract:** Recently, there has been a plethora of cancer studies in which samples have been profiled using both gene expression and copy number microarrays. We give a brief introduction to copy number and describe a study of copy number/gene expression correlation in publicly available cancer cell line datasets. We then describe some recent multiple testing procedures for integrating the different types of data along with a comparative study of different segmentation methods for microarray data.

Program Announcement

Symposium: Economic Turbulence: Is a Volatile Economy Good for America?

Speakers: Clair Brown, (University of California, Berkeley)
John Haltiwanger, (University of Maryland)
Julia Lane, (NORC/University of Chicago)

Date/Time: Tuesday, September 12, 2006 / 12:00 – 1:00 p.m. (lunch);
1:00 - 4:30 p.m. (symposium)

Location: The Keck Room in the National Academies of Sciences, 500 5th Street, NW. Please register before September 7 with Maggie Newman (newman-maggie@norc.uchicago.edu).

Sponsors: The symposium is supported by the Alfred P. Sloan Foundation, the U.S. Census Bureau, NORC/University of Chicago and the University of Chicago Press. Additional sponsors include the Washington Statistical Society.

Abstract: Clair Brown, John Haltiwanger and Julia Lane would like to invite you to lunch followed by a symposium to highlight the findings of a new book "Economic Turbulence: Is a Volatile Economy Good for America" that they have coauthored. Clair, John and Julia will present key chapters from the book; David Autor (MIT), Charlie Brown (University of Michigan), and Erica Groshen (NY Federal Reserve) will provide their insights. More information on the book is available at <http://www.press.uchicago.edu/cgi-bin/hfs.cgi/00/212025.ctl>. Attendees will receive a free copy of the book.

Program Announcement

Title: Prediction of Finite Population Totals Based on the Sample Distribution

Chair: Daniell Toth - BLS, Bureau of Labor Statistics

Speaker: Michail Sverchkov, Bureau of Labor Statistics

Discussant: Phillip S. Kott, National Agricultural Statistics Service

Date/Time: Tuesday, September 19, 2006 / 12:30 to 2:00 pm

Location: Bureau of Labor Statistics, Conference Center in G440. 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: WSS Methodology Section

Abstract: This research studies the use of the sample distribution for the prediction of finite population totals under single-stage sampling. The proposed predictors employ the sample values of the target study variable, the sampling weights of the sample units and possibly known population values of auxiliary variables. The prediction problem is solved by estimating the expectation of the study values for units outside the sample as a function of the corresponding expectation under the sample distribution and the sampling weights. The prediction mean square error is estimated by a combination of an inverse sampling procedure and a re-sampling method. An interesting outcome of the present analysis is that several familiar estimators in common use are shown to be special cases of the proposed approach, thus providing them a new interpretation. The performance of the new and some old predictors in common use is evaluated and compared by a Monte Carlo simulation study using a real data set. This is joint work with Danny Pfeffermann.

Program Announcement

Title: **Protecting the Confidentiality of Commodity Flow Survey Tabular Data by Adding Noise to the Underlying Microdata**

Speakers: Paul B. Massell, Statistical Research Division, U.S. Census Bureau

Discussant: Jacob Bournazian, Energy Information Administration, U.S. Department of Energy

Chair: Linda Atkinson, Economic Research Service, USDA

Date/time: Tuesday, October 24, 2006 / 12:30 – 2:00 p.m.

Location: Bureau of Labor Statistics Conference Center, Room 8. 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: BTS and the U.S. Census Bureau are co-sponsors of the Commodity Flow Survey (CFS). The CFS produces data on the movement of goods in the United States. These data are used by analysts for transportation planning and decision-making and for modeling transportation facilities and services demand. Cell suppression has been used over the years to protect magnitude data values. Data users, especially transportation modelers, have indicated their desire for access to tables with fewer suppressed cells. Census and BTS are exploring the addition of noise to the underlying CFS microdata as an alternative method for protecting the magnitude values. The noise method used here is due to Evans, Zayatz, and Slanta (J. Official Statistics, 1998). Initial research findings have been quite positive. This paper will present our results to date including analysis of noise effects on selected CFS tables. We will describe various ways of measuring the effectiveness of this noise method on any set of tables.

This talk is an expanded version of an invited paper presented at an ASA session on disclosure at JSM2006. That paper was co-authored with Neil Russell, who, at the time of this research, was the confidentiality officer at the Bureau of Transportation Statistics (BTS).

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) 373-6645.

CAREER OPPORTUNITY

U.S. DEPARTMENT OF TRANSPORTATION

Research and Innovative Technology Administration

ANNOUNCEMENT NUMBER: RITA-06-003-NG

POSITION TITLE: Associate Administrator and Director
Bureau of Transportation Statistics
ES-340 (\$109,808 - \$165,200)

POSITION LOCATION: U.S. Department of Transportation
Research and Innovative Technology Administration
Bureau of Transportation Statistics
Washington, DC

AREA OF CONSIDERATION: Open to All Qualified

OPENING DATE: July 21, 2006

CLOSING DATE: September 27, 2006

Due to U.S. mail delays, it is recommended that applicants fax, use a professional delivery service or personally deliver applications to ensure timely receipt.

DOT is an Equal Opportunity Employer

All qualified candidates will be considered regardless of political affiliation, race, color, religion, national origin, sex, sexual orientation, marital status, age, disability, or other non-merit factors. DOT provides reasonable accommodations to applicants with disabilities. If you need a reasonable accommodation for any part of the application and hiring process, please notify us. Decisions on granting reasonable accommodation will be made on a case-by-case basis.

Why Work for Us?

Transportation impacts every facet of American life, providing people access to work, school, loved ones, and nature's rich bounty. The U.S. Department of Transportation is committed to transportation excellence and strives to create the best possible integrated air, land, and sea transportation system for America. As a DOT employee, you will become a part of a dedicated workforce who work day-to-day to make measurable improvements in our transportation system,

the security of our nation, and the quality of American life.

Summary of Essential Job Functions

The Associate Administrator and Director, Bureau of Transportation Statistics, is responsible for directing a program to enhance data collection, analysis, and reporting. In addition, the Associate Administrator and Director ensures the most cost-effective use of transportation monitoring resources. The Associate Administrator and Director is responsible for coordinating the collection of information with the operating administrations of the Department and with other Federal agencies. In addition, the Bureau of Transportation Statistics publishes a comprehensive set of transportation statistics on the performance and impacts of the national transportation system.

What Are the Qualifications for This Position?

Specialized Experience Required: Applicants must provide detailed evidence that their knowledge, skills, abilities and other personal characteristics meet the managerial and technical requirements listed below and reflect the ability to perform the duties of the position.

A. MANAGERIAL REQUIREMENTS

Leading Change: The ability to develop and implement an organizational vision which integrates key national and program goals, priorities, values, and other factors. Inherent to it is the ability to balance change and continuity – to continually strive to improve customer service and program performance within the basic Government framework, to create a work environment that encourages creative thinking, and to maintain focus, intensity, and persistence, even under adversity.

Leading People: The ability to design and implement strategies which maximize employee potential and foster high ethical standards in meeting the organization's vision, mission, and goals.

Results Driven: Stresses accountability and continuous improvement. It includes the ability to make timely and effective decisions and produce results through strategic planning and the implementation and evaluation of programs and policies.

Business Acumen: The ability to acquire and administer human, financial, material, and information resources in a manner which instills public trust and accomplishes the organization's mission, and to use new technology to enhance decision making.

Building Coalitions/Communications:

The ability to explain, advocate and express facts and ideas in a convincing manner, and negotiate with individuals and groups internally and externally. It also involves the ability to develop an expansive professional network with other organizations, and to identify the internal and external politics that impact the work of the organization.

For further explanation and guidance in addressing the five Managerial Requirements listed above, please visit OPM's SES webpage at <http://www.opm.gov/ses/handbook.html>

TECHNICAL REQUIREMENTS

1. Experience that reflects the ability to provide national executive leadership for planning, developing, implementing and evaluating a comprehensive, relevant program for the collection and analysis of statistical data relating to the performance of the national

transportation system.

2. Demonstrated ability to work in cooperation with internal and external partners and stakeholders to ensure that accurate, reliable, relevant and accessible data are available for statistical and economic analysis for use in policy, program and regulatory decisions.

How Will The Qualified Applicants Be Further Evaluated And Rated To Identify The Best Qualified?

If you are basically qualified for this job, you will be further evaluated on the quality and extent of your total accomplishments, experience and education related to the managerial and technical requirements.

What Employee Benefits Do We Provide?

The Federal Government offers excellent benefits, flexible work schedules and family-friendly programs. You will receive paid annual leave and sick leave. You will be eligible for retirement, health insurance, life insurance and Long Term Care insurance. A brief summary of the Federal benefits for permanent employees can be found at <http://www.usajobs.opm.gov/ei61.asp>.

Before You Go Any Further, Here Are Some Other Things You Need to Know

- The "**Area of Consideration**" section shown on the first page indicates who may apply for this position. For example, if the area is "**Open to all US Citizens**", then anyone who is a US Citizen may apply.
- If you are selected for this position, you may be subject to a determination of your suitability for Federal employment and a background investigation for security clearance.
- Before being hired, you will be required to sign and verify the accuracy of the information in your application if you have not done so using an application form such as the OF 612.
- If you are selected for this position, you will be required to file a financial disclosure statement in accordance with the Ethics in Government Act of 1978.

How To Apply For This Position

- 1) Submit four (4) copies of your current SF-171 (Application for Federal Employment), resume, or an OF-612 (Optional Application for Federal Employment). You may choose which form to submit provided it contains all required information. **Required information** is listed in the section below labeled "Here's What Your Application Must Contain."
- 2) Submit four (4) copies of a Qualifications Brief, which is a statement indicating how your experience, education, training, awards, and/or self-development activities meet the qualifications listed above. The Qualifications Brief must cover both the five managerial requirements and each of the technical requirements. Format the brief so that every requirement is individually addressed. It must provide sufficient information including examples of work assignments, projects, etc., to determine whether or not you are qualified for the position. (Note: If you have career status in the SES, have reinstatement eligibility to the SES, or are a certified graduate of an OPM approved Candidate Development Program, your brief should only address the technical requirements.)

Here's What Your Application Must Contain:

JOB INFORMATION

Announcement number and title of the position

PERSONAL INFORMATION

Full name
Mailing address (with Zip Code)
Social Security Number
Country of citizenship (Most Federal jobs require United States citizenship)
Federal employees & Reinstatement eligibles (Attach SF-50)
Highest Federal civilian grade held

EDUCATION

High School name, city, state, and date of diploma or GED
College/University names, city, and state
Major(s)
Type and year of degree(s) received

WORK EXPERIENCE

(paid and unpaid)

Job Title
Duties and accomplishments
Employer's name and address (indicate if we may contact your current supervisor)
Supervisor's name and telephone number
Starting and ending dates (month and year)
Hours per week
Salary and/or Grade (GS-or equivalent)

OTHER QUALIFICATIONS

Job-related training courses (title and year)
Job-related skills (e.g., foreign languages, computer software/hardware, etc.)
Job-related certificates and licenses (current only)
Job-related honors, awards, and special accomplishments (e.g., memberships in professional or honor societies, leadership activities, public speaking, performance awards and publications)(give dates)

Where To Send Your Application

U.S. Department of Transportation
Office of the Secretary (OST)
Employment and Executive Resources, M-15
400 Seventh Street, SW - Room 7411
Washington, DC 20590
ATTN: (RITA-06-003-NG)

ALL applications must be in our office by 5:00 p.m. Eastern Standard Time on the announcement closing date. Incomplete Application packets or applications received after the closing date will not be considered.

Applications mailed in a Government envelope will not be accepted.

Questions?

Call (202) 366-4088 or TDD (202) 366-7630. Please reference the announcement number so we can help you more efficiently. Outside the Washington, D.C. Metro area, dial 1-800-525-2878.

ALTERNATIVE FORMATS: Should you need a copy of this announcement in an alternative format to accommodate a disability, please contact one of the above numbers.

WESTAT

AN EMPLOYEE-OWNED RESEARCH CORPORATION

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 1,800 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/6001)

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 is 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

Equal Opportunity Employer.

www.westat.com

The George Washington University School of Public Health & Health Services

Faculty Member in Biostatistics

The Department of Epidemiology & Biostatistics is recruiting for a full time faculty member at the Assistant or Associate Professor level with expertise in biostatistics.

The successful candidate will have the opportunity to join a growing Department of Epidemiology and Biostatistics in the nation's capital that has a highly respected and energetic teaching and research faculty and the opportunity to conduct clinical trials research at The Biostatistics Center.

Under the leadership of its new Chairman, Alan E. Greenberg, MD, MPH, the Department has

expertise in HIV/AIDS, cancer, behavioral, and aging epidemiology, geographical health information systems, and biostatistical methods. In addition, the Department has established collaborative opportunities with other Departments in the GWU School of Public Health and Health Services, the GWU Medical Center, the Veterans Administration Hospital, Children's National Medical Center, the National Cancer Institute, the Department of Defense, and the DC Department of Health.

The Biostatistics Center is a leader in the statistical coordination of clinical trials conducted by the National Institute of Health. The center is renowned for its leadership in multi-center trials in diabetes, cardiovascular disease, maternal/fetal clinical medicine, osteoporosis, and urology, and the genetic basis for a series of diseases.

The Department of Epidemiology and Biostatistics is involved in the MS and PhD degree programs in biostatistics and in epidemiology, among other graduate degree programs. The MS and PhD degree programs in biostatistics and in epidemiology admitted its first class in 1995. There are currently 15 doctoral students matriculated in the PhD degree in biostatistics and 10 students matriculated in the MS degree in biostatistics. More than half of the doctoral students in biostatistics are working on their dissertation research.

Responsibilities of the position will include teaching upper level courses in theoretical and applied biostatistics, mentoring masters and doctoral students in biostatistics, participating in clinical trials research at the GWU Biostatistics Center (<http://biostat.bsc.gwu.edu>), and developing an externally-funded research program.

Faculty rank and compensation will be commensurate with experience. Review of applications will begin on March 1, 2006, and will continue until the position is filled. Send letter of application, CV, and a list of 3 references, preferably electronically, to:

Dr. Dante A. Verme

Chair, Search Committee, Biostatistics

E-mail: sphdav@gwumc.edu (electronic submissions strongly preferred)

Vice Chair for Educational Activities

Department of Epidemiology and Biostatistics

The George Washington University

School of Public Health & Health Services

2300 Eye St., NW, Ross Hall 125

Washington, DC 20037

GWU SPHHS Webpage: <http://www.gwumc.edu/sphhs>

The Biostatistics Center Webpage: <http://biostat.bsc.gwu.edu>

The George Washington University is an Equal Opportunity/Affirmative Action Employer.

The Biostatistics Center

CLINICAL TRIAL BIOSTATISTICIANS

M.S. and Ph.D. Level Positions

With an opportunity for substantial leadership responsibility in studies of international public health import.

The Biostatistics Center of The George Washington University, founded in 1972, is a leader in the statistical coordination of clinical trials conducted by the National Institutes of Health. We enjoy over \$45 million per year of NIH research funding for major studies in cardiovascular disease, diabetes, maternal/fetal medicine, osteoporosis, urology, and the genetic basis for various diseases. The center has a staff of over 100 with 27 biostatisticians/epidemiologists, including 10 faculty. We are recruiting M.S. and Ph.D. level staff to participate in these and

future studies. Please visit our web site (below).

Master's Level Research Positions: These positions require a Master's in Biostatistics or Statistics and 1-5 years experience in analysis, supervision of data management and study design for biomedical applications. Good written and oral communication skills, and detailed knowledge of SAS required. Send CV to address below.

Assistant to Full Research Professorial Positions are available immediately to serve as Co-Investigator or Principal Investigator (Project Director) and to provide statistical direction of the design, conduct and analysis of studies and the conduct of methodologic research to meet the projects needs. We are seeking individuals who want to join a highly competent team of academic biostatisticians and epidemiologists; who desire to contribute to the design and analysis of major medical studies, seek substantive scientific and statistical responsibility, enjoy interacting with medical investigators; take pride contributing to the publication of major papers in leading medical journals, and desire to make an impact on the public health. Our faculty also participate in graduate programs in biostatistics, epidemiology and statistics which afford opportunities for teaching at the graduate level. The research projects also provide an environment rich in methodological problems, with opportunities for collaboration with research active Center faculty and graduate students.

Minimum Position Requirements: Doctorate in Biostatistics, Statistics or Epidemiology, or alternatively an M.D. or Ph.D. in Biological Science, Physical Science or Computer Science with a Masters in Biostatistics or Statistics, 1-5 years' experience with clinical trials, especially study design and statistical analysis of study results using SAS, excellent oral and written English communication skills, and supervisory experience.

Application Procedures: Applicants must send a Curriculum Vitae and three letters of reference; a letter to include a synopsis of their role in collaborative medical research that has led to medical scientific presentation or publication and a statement of career purpose indicating their career goals and how this position can help you achieve those goals; and applicants for Assistant Research Professor positions must send an Official Transcript of graduate coursework leading to the doctoral degree to: Sarah Fowler, Research Professor and Director, The George Washington University Biostatistics Center, 6110 Executive Blvd., Suite 750, Rockville, MD 20852.
[HTTP://WWW.BSC.GWU.EDU](http://www.bsc.gwu.edu)

Review of applications is ongoing until the positions are filled. Rank/position title and salary commensurate with experience and qualifications. Tuition benefits for employees (including Ph.D. in Statistics, Biostatistics and Epidemiology) and for spouse and dependent children.

All research and regular faculty at the rank of Assistant Professor in Biostatistics or Statistics may be apply for the Samuel W. Greenhouse Biostatistics Research Enhancement Award. For a period of 1 year, the award will provide 20% effort for methodological research and a discretionary fund to support professional activities, travel to professional meetings, supplies and equipment. Applicants for the research faculty position may also apply for the Greenhouse Award while their faculty application is being considered. For complete information including Award Application Materials Requirements, please visit our website at: www.bsc.gwu.edu.

The George Washington University is an Equal Opportunity/Affirmative Action employer

VISITING FACULTY POSITION

**DEPARTMENT OF STATISTICS
THE GEORGE WASHINGTON UNIVERSITY
WASHINGTON, DC 20052**

The Department of Statistics at The George Washington University invites applications for a Visiting Assistant Professor position for one year to start in fall 2006. The primary responsibility is teaching 3 courses in Fall 2006 and 3 courses in Spring 2007.

The Department is the first department of statistics in a college of arts and sciences in USA, and is well recognized for its teaching and research accomplishments. The Department provides a stimulating academic environment and great opportunities for research collaboration. The Department has a strong research program and has received research grants from most of the major research funding organizations, NSF, DoD, NIH, EPA, etc.

The Department has 13 full-time faculty members, and offers the B.S., M.S. and Ph.D. degrees in Statistics; M.S. and Ph.D. degrees in Biostatistics and in Epidemiology, in collaboration with the School of Public Health and Health Services; and a Graduate Certificate in Survey Design and Data Analysis. The Department also teaches statistics to about one thousand students from other departments every semester. Applicants are encouraged to visit the Department's website (www.gwu.edu/~stat) for information on current research interests and activities of the faculty.

The Department's location in the nation's capital offers unique cultural and professional opportunities. Many major Government agencies, international organizations, research institutions, and companies located in Washington, DC offer excellent opportunities for applied research collaboration and professional development. The Department faculty has engaged in collaborative research efforts with several statistical branches of government agencies. Statisticians with collaborative research interest should find our location and the position attractive.

Applicants should have a doctoral degree in Statistics or related field, and demonstrated excellence in teaching. Review of applications will begin on April 17, 2006, and will continue until the position is filled. Please send application, CV, and 3 recommendation letters to:

Search Committee
Department of Statistics
George Washington University
Washington, DC 20052.

The George Washington University is an Equal Opportunity/Affirmative Action Employer.

PricewaterhouseCoopers LLP Statistician Positions

PricewaterhouseCoopers LLP is seeking interested applicants for **Statistician** positions with a minimum of two years of related experience for our Washington, DC office. A Master's or Doctoral degree in statistics is required. Applicants should have strong communication skills. SAS programming experience is preferred, but not required.

Our Advisory Services practice provides comprehensive analytic, financial, economic and strategic advice to companies with complex business problems. Statisticians and economists within our practice work together to develop practical solutions for our commercial and government clients, through the use of sampling applications, statistical and economic modeling, forecasting and prediction, and the ability to process and analyze large volumes of data.

For more information, please contact Dr. Jessica Pollner by email at Jessica.Pollner@us.pwc.com or phone at 202-822-4040.

VP of Statistical Analysis

Job Description:

A world leader in the financial services industry seeks leaders for our statistical practices. We are looking for graduate- and postgraduate-level specialists in the collection, analysis, interpretation, and presentation of numerical data.

We offer excellent pay, benefits, and opportunities for professional advancement, and a fast-paced, teamwork-oriented environment that values collaborative and analytical excellence. Responsibilities include some or all of the following:

The Scoring Office is part of Credit Risk Management and is responsible for helping to ensure governance and quality of statistics enterprise-wide. This position will be responsible for two kinds of work:

Statistical Practice Development: Develop understanding of the statistical needs of the company, design, develop, and deploy systematic improvements across the organization. This work will require being a technical consultant to over 100 statisticians, build answers to both their stated and actual needs. Solutions must be technically solid yet work within the many constraints of the current business. Develop on-going technical training programs that ensure the continued technical excellence of our statisticians.

Project delivery: Identify specific changes required in the company's practice, define project, execute.

Qualifications:

Required:

Ph.D. Statistics Expert in classic statistical material (for example, linear models, logistic regression, hypothesis testing, sampling)

Passion for leading teams of statisticians- motivating and developing top talent

SAS programmer, solid on data step and several of the statistical procedures, familiar with macros

Effective public speaker

Experience building complex statistical models

Ability to create and lead complex projects.

Preferred:

Ideal candidates for this position will also have excellent teaching skills and extensive experience in leading change in complex business environments

WILL CONSIDER BOTH RICHMOND and NORTHERN VIRGINIA AS WORK LOCATIONS

How to apply:

- Contact Michael Park at (703) 815 – 9300 or Michael@JMPcareers.com

US Army Evaluation Center

The Army Evaluation Center (AEC) evaluates the capability (effectiveness, suitability, and survivability) of Army and Joint materiel acquisitions. Organized into directorates assigned a specific mission area, AEC evaluators and analysts plan and conduct evaluations while partnered with tailored contingents of developmental and operational testers. The evaluations rendered by AEC personnel ensure that America's soldiers are the finest equipped in the world.

AEC is currently recruiting for the following position:

Operations Research Analyst / Mathematical Statistician

Senior analyst and lead member of interdisciplinary teams engaged in full spectrum of statistical and intelligence analysis. This position supports multi-service evaluations regarding materiel

acquisition programs of national security scope and interest. The analyst contributes technical and analytical input to products prepared by Army and multi-service working groups. The analyst formulates evaluation strategies that derive informational and data requirements for technical and operational test designs and modeling efforts, as well as monitors test execution and data collection activities.

Candidates for this position must have strong backgrounds in statistical analysis, modeling, and communication skills. Candidates must possess one year of specialized experience and training equivalent to the former GS-11 level in Federal service that included comprehensive analysis and integrated evaluations of weapons systems and/or automated information systems. Candidates must be able to obtain and maintain a TOP SECRET/SCI clearance. The US Army Evaluation Center became part of an alternative personnel system known as the Acquisition Demonstration Project on February 28, 1999. The Demonstration replaces GS grade levels with occupational families and pay bands. The salary range of the position being filled (NH-III) will not be decreased with the change to pay bands. This position incorporates former GS-12 step 1 through GS-13 step 10 grade levels and salary levels. Finally, due to the Base Realignment Commission (BRAC), this position will relocate to Aberdeen Proving Ground, MD, prior to 2010.

For more information, interested parties should contact the AEC website:

http://www.atec.army.mil/aec/HRD/career_tech.asp



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FFC/2006

The 15th Federal Forecasters Conference

September 28, 2006

Aging: Implications for Forecasting

As the population of the United States and other major countries continues to age, policy makers at every level face major challenges in providing needed services while maintaining economic prosperity. A graying society has major effects on the dynamics of our economic and societal activities including the composition of the labor force, the nature of jobs to be filled, and the demands for goods and services including health care, pension benefits, and other public services. The implications of this aging phenomenon on forecasting in the public sector are equally profound affecting both the input side and the output side of many projection models. The 2006 Federal Forecasters Conference seeks to highlight key aspects of how forecasting must account for the aging trend which demographers have long seen coming.

Bureau of Labor Statistics (BLS) Conference and Training Center
2 Massachusetts Avenue, N.E.
Washington, DC

September 7, 2006 Conference Registration Deadline

~SPONSORING AGENCIES ~

**Bureau of Health Professions • Bureau of Labor Statistics • Bureau of Transportation Statistics •
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Center for Economic Research, The George Washington University

Announcing
The 15th Federal Forecasters Conference
September 28, 2006
BLS Conference & Training Center
Registration Form -- Due by September 7, 2006

There is no charge for participation. Please share this form with your colleagues.

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Return this information by **September 7, 2006** to Terry Manzi, FFC/2006 Registrar.
E-mail registration is preferred and can be sent to: Terry.Manzi@IRS.GOV.
Fax registration with cover page is also possible at 202-874-0613.

I _____ **do** _____ **do not** wish my name to appear in the FFC Directory.

For more information, call FFC Committee Chair Mitra Toossi at 202- 691-5721.

For registration forms and other information: www.federalforecasters.org

Announcements

HOW VISUAL LAYOUT AFFECTS ANSWERS TO SELF-ADMINISTERED SURVEYS AND THE IMPLICATIONS FOR MIXED-MODE SURVEYS

A one-day short course sponsored by the Joint Program in Survey Methodology

OCTOBER 18, 2006

Presented at the Sheraton Crystal City Hotel, Arlington, Virginia

DON A. DILLMAN

Washington State University

COURSE OBJECTIVES

This short course describes how and why words, numbers, symbols and graphics independently and jointly influence answers to questions in Internet and paper surveys. These determinants of how people comprehend and respond to survey questions are placed in the context of two other developments that are changing how surveys are designed: changes in Internet access and use, and the increased reliance on mixed-mode surveys as a solution to the coverage and response problems that limit dependence upon a single mode of data collection. The content and organization of this course build upon an updated version of the presenter's 2000 book, *Mail and Internet Surveys* (available in August, 2006) that will be provided to participants as part of the short course registration. Research that has tested many of the visual design ideas to be presented in questionnaire experiments will be discussed as a basis for developing principles for how questionnaires should and should not be designed. Applications of the theory and research to designing both individual person and establishment surveys in ways that improve their usability for respondents will be provided. The short course ends with a discussion of the substantial implications these ideas have for the design of mixed-mode surveys in which some respondents are asked to report aurally (e.g. telephone) and others are asked to respond to visually communicated survey questions (web or mail). The challenge of choosing between mode-specific and unified modes of constructing survey questions will also be discussed.

THE INSTRUCTOR

Don A. Dillman is Regents Professor and The Thomas S. Foley Distinguished Professor of Government and Public Policy in the Departments of Sociology, Community and Rural Sociology and the Social and Economic Sciences Research Center at Washington State University in Pullman. He served as the Senior Survey Methodologist at the U.S. Bureau of the Census, 1991-95, and is internationally known for his work on the improvement of self-administered survey methods. He has authored or edited four books on survey methodology, including *Mail and Internet Surveys* (2000), an updated version of which is now in press. His current research emphasizes the effects of visual layout and design on answers to paper and web surveys. Recent papers on these topics are available on his web page <http://www.sesrc.wsu.edu/dillman/>.

TENTATIVE SCHEDULE

7:45 – 8:30 Check-in and continental breakfast

8:30 – 9:00 The changing nature of survey methods

9:00-10:00 Why and How Words, Numbers, symbols and graphics influence question meaning in visual surveys.

Gestalt Psychology and the processing of visual information

10:00 – 10:20 Break

10:20 – 12:00 Examples from individual-person and establishment surveys.

Results from web and paper research: experimental tests of how visual layout influence respondent behavior.

12:00 – 1:00 Lunch

1:00 – 2:45 Application of the visual design principles discussed during the morning session to the construction of individual-person and establishment surveys conducted on the Internet and by mail.

2:45 – 3:00 Break

3:00 – 4:30 Bridging between aural and visual surveys.

Mode-specific vs. unified mode design with examples

Summary and Conclusion

4:30 Adjourn

COURSE MATERIALS

Registrants will be provided with a course lecture notebook and an updated version of the presenter's 2000 book, Mail and Internet Surveys.

MEALS

JPSM group continental breakfast, lunch and breaks are included in the course fee and will be served buffet style to accommodate the needs of vegetarians and others.

SPONSOR AFFILIATE LIST: <https://projects.isr.umich.edu/jpsm/sponsorlist.cfm>

FEES

The registration fee for staff at sponsoring agencies and affiliates is \$370, \$370 for full-time university students, and \$470 for other participants. Payment by credit card is required. Post registration payment may be done online using the registration number or by calling (800) 937-9320. Payment is required by October 4, 2006.

REGISTRATION

Online registration is required. Confirmation of acceptance will be sent after the registration form has been processed. Registration is not firm until you receive an acceptance email. The email will include directions to the course. The automatic web registration number is not an acceptance letter. Payment by credit card is required. Post registration payment may be done online using the web generated registration number or by calling (800) 937-9320. The registration deadline is October 4, 2006.

CANCELLATION

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 October 4, 2006. Cancellation October 5-10, 2006 will require a \$100 administrative fee, the remainder will be reimbursed. Cancellation on or after October 11, 2006 is subject to the full fee amount.

LOCATION

The course will be held at the Sheraton Crystal City Hotel, 1800 Jefferson Davis Highway, Arlington, Virginia. The Sheraton Crystal City Hotel is located in the "Crystal City" business district of Arlington, with nearby access to the Crystal City Metro Stop. Located at the intersection of 18th and Eads Street the hotel is 1 mile from Ronald Reagan National Airport. For room reservations call the hotel at (703) 486-1111 or 1-800-862-ROOM. Information, directions, and times will be sent with your acceptance email letter.

MINORITY FELLOWSHIPS

The Joint Program in Survey Methodology strives to increase the number of survey professionals from groups traditionally under-represented in the field. As part of this effort, a limited number

of competitive minority fellowships are available to African-Americans, Hispanic Americans, and Native American Indians for the short course. Applicants should submit:

- (1) A 500-word essay describing their reasons for wanting to attend this short course and how their participation will enhance their chosen career path. The essay should indicate the applicant's race/ethnic background.
- (2) A recommendation written by a person knowledgeable about the applicant's aptitude and interest in survey methodology.
- (3) The course registration form.

If you are applying for a minority fellowship, please be certain to register early. Applications are due before September 20, 2006. JPSM will evaluate the applications and inform the successful applicants by September 27, 2006. The fellowship covers the registration fee for the course, including the cost of materials to be distributed during the course and lunch.

JPSM CITATION PROGRAMS

The citation programs are built around the JPSM short courses. The JPSM Citation in Introductory Survey Methodology is designed to provide the working professional and interested students with state-of-the-art knowledge about current principles and practices for conducting complex surveys combined with practical skills of day-to-day utility. The JPSM Citation in Introductory Economic Measurement is designed for professional staff requiring a grounding in the principles and practices of economic measurement. Completion of the citation programs involves taking a semester-length JPSM credit-bearing course and eight JPSM short courses, of which four are specified core courses. For information on the Certificate and Citation Programs visit the website at <http://www.jpsm.org> or call 301-314-7911.

INQUIRIES

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 48104-2321, Phone: (800) 937-9320, Fax: (734) 764-8263, Email: jpsmshort@isr.umich.edu .

JPSM HOME PAGE: <http://www.jpsm.org> Click on "Short Courses"

JPSM SPONSOR AFFILIATE LIST: <https://projects.isr.umich.edu/jpsm/sponsorlist.cfm>

COURSE INFORMATION: <https://projects.isr.umich.edu/jpsm/materials/2006-1018.html>

LISTS, REGISTRATION, PAYMENT AND CANCELLATION:
<https://projects.isr.umich.edu/jpsm/>

Primary Funding for JPSM is from the Interagency Council on Statistical Policy

Announcements

INTRODUCTION TO ITEM RESPONSE THEORY (IRT) MODELING AND APPLICATIONS

A one-day short course sponsored by the Joint Program in Survey Methodology

NOVEMBER 14, 2006

Presented at the Hyatt Regency Bethesda, MD

BRYCE REEVE

National Cancer Institute, National Institutes of Health

COURSE OBJECTIVES

Each year, new surveys are developed or revised from previous measures in the hope of obtaining surveys that are reliable, valid, sensitive to change, and provide interpretable scores that accurately characterize a respondent's standing on a measured construct. This need for psychometrically sound measures calls for better analytical tools beyond the methods available from traditional measurement theory. Applications of item response theory (IRT) modeling have increased considerably in educational, psychological, and health outcomes measurement because of its utility for survey development and evaluation, assessment of measurement equivalence, instrument linking, and computerized adaptive testing. IRT models the relationship, in probabilistic terms, between a person's response to a survey question and their standing on a latent construct such as depression, anxiety, or fatigue. This information allows survey developers to build reliable and efficient measures tailored for an individual or group.

This introductory course will discuss the basic concepts and methods of IRT models including understanding the theory behind the models, defining and interpreting IRT model properties, differentiating among the various IRT models, checking model assumptions, and interpreting IRT scores. Further, the course will use examples from previous research to demonstrate how IRT methods can be used to inform and refine survey development, assessment measurement equivalence, link survey scores, and build item banks for short forms or computer-adaptive testing (CAT).

WHO SHOULD ATTEND

The course is geared to individuals in government, universities, business, and nonprofit organizations interested in understanding and applying item response theory modeling in instrument development and evaluation. Introductory course work in statistics is recommended but not required.

THE INSTRUCTOR

Bryce Reeve is a Psychometrician and Program Director at the U.S. National Institutes of Health's (NIH) National Cancer Institute (NCI), where he has worked since 2000. At NCI, he directs an active program to enhance the use of patient-reported outcomes (including health-related quality of life (HRQOL) and patient satisfaction with healthcare) in clinical research and practice to improve the quality of care for both pediatric and adult cancer patients. With a degree in quantitative psychology from the University of North Carolina at Chapel Hill, his work at NCI is focused on integrating the tools of psychometrics into the field of health outcomes research to develop and to improve HRQOL measurement.

Dr. Reeve serves as a NIH Science Officer on the Patient-Reported Outcomes Measurement Information System (PROMIS) Network. The PROMIS Network is in the process of building a public domain Web-based resource to dynamically administer, collect, and report data on key HRQOL domains relevant to a variety of chronic diseases. In 2004, he organized an international conference on improving health outcomes measures using tools available from modern measurement theory and computer technology. Attended by over 230 members from government, academia, and industry, this conference sparked great interest in the field and provided a foundation to explore the new arena of application of computerized-adaptive testing.

TENTATIVE AGENDA

November 14, 2006

8:00 - 9:00 Check-In and Continental Breakfast

9:00 - 10:30 Introduction and Overview - Item Response Theory (IRT)

- Theory behind IRT
- IRT Item and Scale properties
- IRT Family of Models

- Model Assumptions
- Classical versus Modern Measurement Theory
- 10:30 - 10:45 Break
- 10:45 - 12:00 Illustration of above concepts and methods in Dataset
- 12:00 - 1:00 Lunch
- 1:00 - 2:30 Application of IRT methods for:
 - Survey Development and Refinement
 - Examining Differential Item Functioning (DIF)
- 2:30 - 2:45 Break
- 2:45 - 4:15 Application of IRT methods for:
 - Linking Surveys
 - Item Banking
 - Computerized-Adaptive Testing
- 4:15 - 4:30 Wrap-up

COURSE MATERIALS

Registrants will be provided with a course lecture notebook.

MEALS

JPSM group continental breakfasts, lunches and breaks are included in the course fee and will be served buffet style to accommodate the needs of vegetarians and others.

SPONSOR AFFILIATE LIST:

<https://projects.isr.umich.edu/jpsm/sponsorlist.cfm>

FEES

The registration fee for staff at sponsoring agencies and affiliates is \$300, \$300 for full-time university students, and \$400 for other participants. Payment by credit card is required. Post registration payment may be done online using the registration number or by calling (800) 937-9320. Payment is required by October 31, 2006.

REGISTRATION

Online registration is required. Confirmation of acceptance will be sent after the registration form has been processed. Registration is not firm until you receive an acceptance email. The email will include directions to the course. The automatic web registration number is not an acceptance letter. Payment by credit card is required. Post registration payment may be done online using the web generated registration number or by calling (800) 937-9320. The registration deadline is October 31, 2006.

CANCELLATION

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 October 31, 2006. Cancellation November 1-6, 2006 will require a \$100 administrative fee, the remainder will be reimbursed. Cancellation on or after November 7, 2006 is subject to the full fee amount.

LOCATION

The course will be held at the Hyatt Regency Bethesda, One Bethesda Metro Center, at Wisconsin Avenue and Old Georgetown Road in Bethesda, Maryland. The hotel is in the heart of Maryland's high-tech corridor with convenient access to the Capital Beltway and the Metro subway system. The Hyatt is accessible via the Metro Red Line at the Bethesda Metro stop. For overnight room reservations, call the Hyatt Regency Bethesda at 301-657-1234. There is a parking garage located directly underneath the Hotel which offers both valet and self-parking. The garage is not owned or operated by the Hyatt Regency.

<http://bethesda.hyatt.com/property/areaguide/maps/index.jhtml>

MINORITY FELLOWSHIPS

The Joint Program in Survey Methodology strives to increase the number of survey professionals from groups traditionally under-represented in the field. As part of this effort, a limited number of competitive minority fellowships are available to African-Americans, Hispanic Americans, and Native American Indians for the short course. Applicants should submit:

- (1) A 500-word essay describing their reasons for wanting to attend this short course and how their participation will enhance their chosen career path. The essay should indicate the applicant's race/ethnic background.
- (2) A recommendation written by a person knowledgeable about the applicant's aptitude and interest in survey methodology.
- (3) The course registration form.

If you are applying for a minority fellowship, please be certain to register early. Applications are due before October 17, 2006 JPSM will evaluate the applications and inform the successful applicants by October 24, 2006. The fellowship covers the registration fee for the course, including the cost of materials to be distributed during the course and lunch.

JPSM CITATION PROGRAMS

The citation programs are built around the JPSM short courses. The JPSM Citation in Introductory Survey Methodology is designed to provide the working professional and interested students with state-of-the-art knowledge about current principles and practices for conducting complex surveys combined with practical skills of day-to-day utility. The JPSM Citation in Introductory Economic Measurement is designed for professional staff requiring a grounding in the principles and practices of economic measurement. Completion of the citation programs involves taking a semester-length JPSM credit-bearing course and eight JPSM short courses, of which four are specified core courses. For information on the Certificate and Citation Programs visit the website at <http://www.jpsm.org> or call 301-314-7911.

INQUIRIES

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 48104-2321, Phone: (800) 937-9320, Fax: (734) 764-8263, Email: jpsmshort@isr.umich.edu .

JPSM HOME PAGE: <http://www.jpsm.org> Click on "Short Courses".

COURSE INFORMATION:

<https://projects.isr.umich.edu/jpsm/materials/2006-1114.html>

CLASS LISTS, REGISTRATION, PAYMENT AND CANCELLATION:

<http://projects.isr.umich.edu/jpsm/>

SPONSOR AFFILIATE LIST:

<https://projects.isr.umich.edu/jpsm/sponsorlist.cfm>

Primary Funding for JPSM is from the Interagency Council

Announcements

CREATING AND UPDATING PRICE INDEXES: THEORY AND PRACTICE A two-day short course sponsored by the Joint Program in Survey Methodology

DECEMBER 4-5, 2006

Presented at the Hyatt Regency, Bethesda, MD

DENNIS J. FIXLER
Chief Statistician, Bureau of Economic Analysis

RICHARD L. VALLIANT
Research Professor, University of Michigan

COURSE ABSTRACT

The course blends the conceptual approaches to creating indexes of price change with the science underlying representative procedures for pricing goods and services sold. An overview will be given of the economic concepts that price indexes are intended to measure and of the types of indexes used in practice, including Laspeyres, superlative, and geometric indexes. We will discuss the process for creating a frame, sampling transactions, and processing price quotes on a periodic basis. Problems in constructing indexes will be discussed, including replacing goods, detecting new goods, and adjusting for changes in quality. Design of a sample of goods and services and statistical estimation of indexes from a sample will be covered along with methods of variance estimation. Examples will be taken from the Producer Price Index and the Consumer Price Index. **STUDENTS SHOULD BRING A CALCULATOR TO CLASS.**

WHO SHOULD ATTEND

Individuals in government, universities, business, and nonprofit organizations interested in exposure to differences between approaches to economic statistics from the perspective of information needs and data availability. Participants are assumed to have exposure to rudiments of macroeconomic concepts, similar to that in a first undergraduate course in macroeconomics. It is not expected that participants have current knowledge of the system of national accounts.

INSTRUCTORS

DENNIS J. FIXLER

Dennis Fixler is Chief Statistician, Bureau of Economic Analysis. He was formerly Research Economist and Chief of the Division of Price and Index Number Research in the Bureau of Labor Statistics. He received his Ph.D. in Economics from Purdue University. His primary research interest is in the area of price and output measurement for services, particularly commercial bank financial services and health services. Other areas of interest include index number theory, the measurement issues pertaining to the transmission of monetary policy to the real sector, assessing the impact of changes in product quality on price change, and the economics of technological change.

RICHARD L. VALLIANT

Richard Valliant is Research Professor at the Universities of Michigan and Maryland. He received his Ph.D. in Biostatistics at Johns Hopkins University in 1983 and has over 30 years of experience in sample design and estimation using data from complex surveys. Prior to joining the faculty at the Joint Program in Survey Methodology he was an Associate Director at Westat and a mathematical statistician at the Bureau of Labor Statistics. He is currently an Associate Editor of Survey Methodology and the Journal of Official Statistics and previously has been on the editorial boards of the Applications and Case Studies and Theory and Methods sections of the Journal of the American Statistical Association.

COURSE SCHEDULE

DAY 1

8:30 - 9:00 Registration

9:00 - 10:30 Economic Background

Meaning and purpose of index numbers

Price and quantity indexes

10:30 - 10:45 Break
 10:45 - 12:30 Types: Laspeyres, Paasche, Geometric, Superlative
 (Fisher, Tornqvist)
 Statistical Background
 Probability sampling
 Estimating indexes from a sample

12:30 - 1:30 Lunch
 1:30 - 3:00 Statistical Background (continued)
 Relative importances
 Aggregating indexes
 Combining data over time

3:00 - 3:15 Break
 3:15 - 4:30 Bureau of Economic Analysis Indexes
 Economic Background
 Data sources

DAY 2

9:00 - 10:30 Producer Price Index (PPI)
 Economic Background
 Fixed Input-Output index
 Quality adjustment
 Manufactured goods vs. services

10:30 - 10:45 Break
 10:45 - 12:30 PPI--statistical background
 Steps followed in any survey
 Sample design of PPI
 Selecting items by disaggregation
 Index estimation
 Aggregation in PPI

12:30 - 1:30 Lunch
 1:30 - 3:00 Consumer Price Index (CPI)
 Economic background
 Consumer preferences
 Aggregating over households
 Quality adjustment

3:00 - 3:15 Break
 3:15 - 4:30 Statistical Background
 Relative importances
 Sample design of CPI
 Selecting items by disaggregation
 Index estimation (Laspeyres and Geometric)
 Aggregation in CPI
 Sample allocation (optimization methods)

MINORITY FELLOWSHIPS

The Joint Program in Survey Methodology strives to increase the number of survey professionals from groups traditionally under-represented in the field. As part of this effort, a limited number of competitive minority fellowships are available to African-Americans, Hispanic Americans, and Native American Indians to attend JPSM short courses.

Applicants should submit:

- (1) A 500-word essay describing their reasons for wanting to attend this short course and how their participation will enhance their chosen career path. The essay should indicate the applicant's race/ethnic background.
- (2) A recommendation written by a person knowledgeable about the applicant's aptitude and

interest in survey methodology.

(3) The course registration form.

If you are applying for a minority fellowship, please be certain to register early. Applications are due before November 6, 2006. JPSM will evaluate the applications and inform the successful applicants by November 13, 2006. The fellowship covers the registration fee for the course, including the cost of materials to be distributed during the course and lunch.

JPSM CITATION PROGRAMS

The citation programs are built around the JPSM short courses. The JPSM Citation in Introductory Survey Methodology is designed to provide the working professional and interested students with state-of-the-art knowledge about current principles and practices for conducting complex surveys combined with practical skills of day-to-day utility. The JPSM Citation in Introductory Economic Measurement is designed for professional staff requiring a grounding in the principles and practices of economic measurement. Completion of the citation programs involves taking a semester-length JPSM credit-bearing course and eight JPSM short courses, of which four are specified core courses. For information on the Certificate and Citation Programs visit the website at <http://www.jpsm.org> or call 301-314-7911.

LOCATION

The course will be held at the Hyatt Regency Bethesda, One Bethesda Metro Center, at Wisconsin Avenue and Old Georgetown Road in Bethesda, Maryland. The hotel is in the heart of Maryland's high-tech corridor, just 6 miles from downtown Washington, D.C., with convenient access to the Capital Beltway and the Metro subway system. The Hyatt is accessible via the Metro Red Line at the Bethesda Metro stop. A map will be sent with your registration confirmation. For overnight room reservations, call the Hyatt Regency Bethesda at 301-657-1234. There is a parking garage located directly underneath the Hotel which offers both valet and self-parking. The garage is not owned or operated by the Hyatt Regency. http://www.hyatt.com/usa/bethesda/hotels/map_bethe.html

FEES & COURSE MATERIALS

The registration fee is \$550. Full-time university students (with a supervising faculty advisor's signature) and employees of JPSM sponsor/affiliate organizations are eligible for a reduced fee of \$730. Lunch and refreshments are included in the fee. Participants will be provided with a notebook containing detailed course notes.

REGISTRATION

Online registration is required. Confirmation of registration and further instructions will be sent after the registration form has been processed. Registration is not firm until you receive a confirmation letter. Payment by credit card is required. Payment may be made online following receipt of the confirmation letter using the student's confirmation number. Please note your confirmation number. The registration deadline is November 20, 2006. Payment is required by November 20, 2006 or the registration will be cancelled.

Please notify JPSM as soon as possible if you need to cancel your registration. You will receive a full reimbursement if you cancel on or before November 20, 2006. If you cancel during the period November 21-27, 2006, you will be charged a \$100 administrative fee; the remainder of your course fee will be reimbursed. No reimbursements will be made for cancellations received on or after November 28, 2006. Minority Fellowship essays and letters of recommendation are due November 6, 2006 and should be faxed or mailed to the address below. Fellowship winners will be notified November 30, 2006. Questions about this course should be directed to (301) 314-7911, Fax: (301) 314-7912, JPSM, University of Maryland, 1218 LeFrak Hall, College Park, MD 20742.

INQUIRIES

For information on JPSM short courses contact JPSM at 301-314-7911; fax 301-314-7912; or e-mail jpsm@survey.umd.edu or visit the JPSM website at <http://www.jpsm.org>.

Primary funding for JPSM is provided by agencies of the Federal Statistical System.

Announcements

METHODS FOR TESTING SURVEY QUESTIONS

A two-day short course sponsored by the Joint Program in Survey Methodology

JANUARY 18-19, 2007

Presented at the Hyatt Regency Bethesda, MD

PAMELA CAMPANELLI
Survey Methods Consultant

COURSE OBJECTIVES

- (1) To raise participants' awareness of the different methods currently available to test survey questions
- (2) To provide participants with the knowledge to be able to use these techniques to test their own survey questionnaires.

COURSE DESCRIPTION

This course aims to introduce the broad range of techniques currently available to test and improve survey questionnaires, for both self-completion and interview. It will have two strands: the first focusing on the question testing literature; the second, a very practical "hands-on" approach where you learn how to implement these methods. Question testing methods covered include standard field pretesting, expert review, cognitive and systematic forms appraisal, interviewer rating forms, respondent debriefing and vignettes, classical behaviour coding and sequence-based approaches, cognitive interviewing and the "3 Step Test Interview", focus groups, and split ballot experiments. Discussion will also focus on the strengths and weaknesses of each individual method as well as proposals for multi-method question evaluation strategies.

WHO SHOULD ATTEND

This course is for anyone interested in testing and evaluating survey questions in order to produce better questionnaires. Participants with some prior experience of questionnaire design will benefit most.

THE INSTRUCTOR

Pamela Campanelli is a Survey Methods Consultant and U.K. Chartered Statistician. She received her Ph.D. in statistics from the London School of Economics, and an M.A. in applied social research and B.A. in psychology from the University of Michigan. Prior to becoming an independent consultant, she was a Research Associate at the Office of Educational Research and Resources at the University of Michigan, a Survey Statistician at the Center for Survey Methods Research at the U.S. Bureau of the Census, Chief Research Officer at the UK Institute for Social and Economic Research at the University of Essex, and a Research Director at the Survey Methods Centre at the National Centre for Social Research, London. Her main interests and publications are in the study of survey error and data quality issues, with a special emphasis on questionnaire design, question testing strategies, interviewing techniques, survey nonresponse,

and survey sampling. She regularly teaches short courses in these subjects at the University of Michigan, the University of North Carolina, the University of Hong Kong, the University of Neuchatel and the Swiss Summer School, the University of Essex, City University and the University of Southampton as well as for UK local and central government, UK survey research companies and various other organisations (see www.thesurveycoach.com).

TENTATIVE SCHEDULE

THURSDAY, JANUARY 18, 2007

8:00 - 9:00 Check-in and Continental Breakfast
9:00 - 10:30 Traditional pretesting methods
10:30 - 10:45 Break
10:45 - 11:15 Expert review
11:15 - 11:30 Cognitive forms appraisal/Systematic Questionnaire Review
11:30 - 12:00 Workshop in cognitive forms appraisal/systematicquestionnaire review
12:00 - 1:00 Lunch
1:00 - 1:15 Workshop in cognitive forms appraisal (continued)
1:15 - 1:45 Workshop in traditional pretesting + interviewer rating form
1:45 - 2:10 How to do respondent debriefing & vignettes
2:10 - 2:40 Workshop in respondent debriefing
2:40 - 3:00 How to do classical behaviour coding
3:00 - 3:15 Break
3:15 - 3:25 Workshop in behaviour coding
3:25 - 3:35 Sequence-based approaches
3:35 - 5:00 How to do cognitive interviewing
5:00 Adjourn

FRIDAY, JANUARY 19, 2007

8:00 - 9:00 Check-in and Continental Breakfast
9:00 - 9:20 How to do cognitive interviewing
9:20 - 10:20 Workshop in cognitive interviewing
10:20 - 10:35 Break
10:35 - 12:00 Workshop in cognitive interviewing
12:00 - 1:00 Lunch
1:00 - 1:40 Cognitive interviewing (Analysis, sampling and recruitment)
1:40 - 2:00 3 step test interview and other issues in cognitive interviewing
2:00 - 2:15 How to do focus groups for question testing
2:15 - 2:25 How to do card sorts
2:25 - 2:45 Workshop using card sort in focus group
2:45 - 3:00 Split ballot experiments
3:00 - 3:15 Break
3:15 - 4:15 Overview of testing methods: combinations and options
4:15 - 4:45 Recommendations for multi-method testingprocedures
4:45 - 5:00 Course wrap up
5:00 Adjourn

COURSE MATERIALS

Registrants will be provided with a course pack containing course notes.

MEALS

JPSM group continental breakfasts, lunches and refreshments are included in the course fee.

SPONSOR AFFILIATE LIST:

<https://projects.isr.umich.edu/jpsm/sponsorlist.cfm>

FEES

The registration fee for staff 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 registration number or by calling (800) 937-9320. Payment is required by January 4, 2007.

REGISTRATION

Online registration is required. Confirmation of acceptance will be sent after the registration form has been processed. Registration is not firm until you receive an acceptance email. The email will include directions to the course. The automatic web registration number is not an acceptance letter. Payment by credit card is required. Post registration payment may be done online using the web generated registration number or by calling (800) 937-9320. The registration deadline is January 4, 2007.

CANCELLATION

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 January 4, 2007. Cancellation January 5-10, 2007 will require a \$100 administrative fee, the remainder will be reimbursed. Cancellation on or after January 11, 2007 is subject to the full fee amount.

LOCATION

The course will be held at the Hyatt Regency Bethesda, One Bethesda Metro Center, at Wisconsin Avenue and Old Georgetown Road in Bethesda, Maryland. The hotel is in the heart of Maryland's high-tech corridor with convenient access to the Capital Beltway and the Metro subway system. The Hyatt is accessible via the Metro Red Line at the Bethesda Metro stop. For overnight room reservations, call the Hyatt Regency Bethesda at 301-657-1234. There is a parking garage located directly underneath the Hotel which offers both valet and self-parking. The garage is not owned or operated by the Hyatt Regency.
<http://bethesda.hyatt.com/property/areaguide/maps/index.jhtml>

MINORITY FELLOWSHIPS

The Joint Program in Survey Methodology strives to increase the number of survey professionals from groups traditionally under-represented in the field. As part of this effort, a limited number of competitive minority fellowships are available to African-Americans, Hispanic Americans, and Native American Indians for the short course. Applicants should submit:

- (1) A 500-word essay describing their reasons for wanting to attend this short course and how their participation will enhance their chosen career path. The essay should indicate the applicant's race/ethnic background.
- (2) A recommendation written by a person knowledgeable about the applicant's aptitude and interest in survey methodology.
- (3) The course registration form.

If you are applying for a minority fellowship, please be certain to register early. Applications are due before December 14, 2006 JPSM will evaluate the applications and inform the successful applicants by December 21, 2006. The fellowship covers the registration fee for the course, including the cost of materials to be distributed during the course and lunch.

JPSM CITATION PROGRAMS

The citation programs are built around the JPSM short courses. The JPSM Citation in Introductory Survey Methodology is designed to provide the working professional and interested students with state-of-the-art knowledge about current principles and practices for conducting complex surveys combined with practical skills of day-to-day utility. The JPSM Citation in Introductory Economic Measurement is designed for professional staff requiring a grounding in the principles and practices of economic measurement. Completion of the citation programs involves taking a semester-length JPSM credit-bearing course and eight JPSM short courses, of

which four are specified core courses. For information on the Certificate and Citation Programs visit the website at <http://www.jpsm.org> or call 301-314-7911.

INQUIRIES

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 48104-2321, Phone: (800) 937-9320,
Fax: (734) 764-8263, Email: jpsmshort@isr.umich.edu .

JPSM HOME PAGE: <http://www.jpsm.org> Click on "Short Courses".

COURSE LISTS, REGISTRATION, PAYMENT AND CANCELLATION:

<http://projects.isr.umich.edu/jpsm/>

SPONSOR AFFILIATE LIST:

<https://projects.isr.umich.edu/jpsm/sponsorlist.cfm>

Primary Funding for JPSM is from the Interagency Council.

Announcements

INTRODUCTION TO SURVEY ESTIMATION

A two-day short course sponsored by the Joint Program in Survey Methodology

FEBRUARY 26-27, 2007

Presented at the Inn and Conference Center, Adelphi, MD

DAVID MORGANSTEIN

Senior Statistician and Vice President at Westat

RICHARD L. VALLIANT

Senior Research Scientist, Survey Research Center, University of Michigan

COURSE OBJECTIVES

This short course provides an introductory exposure to producing estimates of population parameters from sample surveys. It will examine the uncertainty of estimates resulting from sampling, through presentation of how sampling errors of survey statistics vary as a function of sample design and weighting procedures.

The course discusses procedures for estimating descriptive statistics like means, percentages, population totals, quantiles as well as model parameters from sample surveys. It also examines statistical procedures used in comparing subgroups on attributes measured in the survey.

The course presents inferential issues that arise in moving from sample-based statistics to describing the target population of the survey. It also describes how to compute the sampling errors of survey estimates and how to make inferences from them to the population. It describes current practices in weight adjustments and in the presentation and description of estimates made from sample surveys.

Practical exercises during the short course reinforce the lecture materials and handouts.

WHO SHOULD ATTEND

Researchers and analysts who need to produce statistical estimates based upon data collected via complex sample survey designs and who need to make inferences about those estimates. The

types of estimates to be discussed include: totals, means, percentages, quantiles and model parameters. The elements of complex designs to be examined include: unequal weights, clustered, stratified and multi-stage designs.

Attendees will benefit the most after the session if they have access on their job to software that computes sampling errors for estimates from complex survey data. Such software will be needed to implement the course concepts in their work.

THE INSTRUCTORS

David Morganstein is a Senior Statistician and Vice President at Westat where he is the Director of its Statistical Group. He has over 30 years of experience in sample design and variance estimation. He is one of the developers of WesVar a program for computing sampling errors, and a faculty member of the Joint Program for Survey Methods. He is a fellow of the American Statistical Association and recipient of its Founders Award.

Richard Valliant is Senior Research Scientist in the Survey Research Center, University of Michigan. He received his Ph.D. in Biostatistics at Johns Hopkins University in 1983 and has over 30 years of experience in sample design and estimation using data from complex surveys. He is currently an Associate Editor of Survey Methodology and the Journal of Official Statistics and has been an associate editor of the Journal of the American Statistical Association. He is a fellow of the American Statistical Association and a faculty member of the University of Maryland. He is a co-author of the text, Finite Population Sampling and Inference: A Prediction Approach.

CALCULATOR

Attendees should bring calculators to use in numerical exercises.

TENTATIVE SCHEDULE

MONDAY, FEBRUARY 25, 2007

8:00- 9:00	Check-in and Continental Breakfast
9:00-10:30	Introduction and Overview Why Sample Estimates Differ from Population Values Sources of Error Types of Sample Designs
10:30-10:45	Break
10:45-12:30	Types of Descriptive Statistics Review of Methods of Estimation Properties of Estimators Steps in weighting Variances of Estimates
12:30-1:30	Lunch
1:30-3:00	Confidence Intervals Degrees of freedom of Variance Estimators Transformations Impact of Sample Design on Sampling Errors
3:00-3:15	Break
3:15-4:30	The Design Effect (Deff) and How to Estimate It Intraclass Correlation Deff from Variation in Weights Comparing Sub-group Estimates
4:30	Adjourn

TUESDAY, FEBRUARY 26, 2007

8:00- 9:00 Check-in and Continental Breakfast
9:00-10:30 Methods of Estimating Sampling Errors
Exact Methods
Linearization
Replication
10:30-10:45 Break
10:45-12:30 Estimating Model Parameters
Linear Regression
Logistic Regression
12:30- 1:30 Lunch
1:30- 3:00 Software for Estimating Sampling Errors
3:00- 3:15 Break
3:15- 4:30 Imputation for Missing Items
Exercises, Questions and Summary
4:30 Adjourn

COURSE MATERIALS

Registrants will be provided with a course pack containing course notes.

MEALS

JPSM group continental breakfasts, lunches and refreshments are included in the course fee.

SPONSOR AFFILIATE LIST:

<https://projects.isr.umich.edu/jpsm/sponsorlist.cfm>

FEEES

The registration fee for staff 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 registration number or by calling (800) 937-9320. Payment is required by February 12, 2007.

REGISTRATION

Online registration is required. Confirmation of acceptance will be sent after the registration form has been processed. Registration is not firm until you receive an acceptance email. The email will include directions to the course. The automatic web registration number is not an acceptance letter. Payment by credit card is required. Post registration payment may be done online using the web generated registration number or by calling (800) 937-9320. The registration deadline is February 12, 2007.

CANCELLATION

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 February 12, 2007. Cancellation February 13-18, 2007 will require a \$100 administrative fee, the remainder will be reimbursed. Cancellation on or after February 19, 2007 is subject to the full fee amount.

LOCATION

The course will be held at the University of Maryland Inn and Conference Center, College Adelphi, Maryland. It is located on University Boulevard at Adelphi Road, Route 193, 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.

MINORITY FELLOWSHIPS

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- (2) A recommendation written by a person knowledgeable about the applicant's aptitude and interest in survey methodology.
- (3) The course registration form.

If you are applying for a minority fellowship, please be certain to register early. Applications are due before January 29, 2007. JPSM will evaluate the applications and inform the successful applicants by February 5, 2007. The fellowship covers the registration fee for the course, including the cost of materials to be distributed during the course and lunch.

JPSM CITATION PROGRAMS

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INQUIRIES

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 48104-2321, Phone: (800) 937-9320, Fax: (734) 764-8263, Email: jpsmshort@isr.umich.edu .

COURSE LISTS, REGISTRATION, PAYMENT AND CANCELLATION:

<https://projects.isr.umich.edu/jpsm/index.html>

SPONSOR AFFILIATE LIST:

<https://projects.isr.umich.edu/jpsm/sponsorlist.cfm>

JPSM HOME PAGE: <http://www.jpsm.org> Click on "Short Courses"

Primary Funding for JPSM is from the Interagency Council on Statistical Policy

Announcements

QUESTIONS FOR STANDARDIZED MEASUREMENT IN SURVEYS A two-day short course sponsored by the Joint Program in Survey Methodology

APRIL 12-13, 2007

Presented at the Sheraton Crystal City Hotel, Arlington, Virginia

NORA CATE SCHAEFFER

University of Wisconsin-Madison

COURSE OBJECTIVES

- To illustrate methods for developing survey questions
 - To outline the decisions that must be made in writing questions of different types and suggest solutions to common problems
 - To show how research informs and improves question design
 - To provide a method for analyzing the issues that arise in writing questions for measurement in surveys
 - The course focuses on the structure and design of questions themselves.
- Most of the examples are from interviewer-administered instruments, but the principles are also relevant for self-administered instruments.

WHO SHOULD ATTEND?

Individuals in government, business, academia, and non-profit organizations who will be writing or reviewing survey questions or survey instruments or analyzing survey data. This course gives practical guidance to those who have written survey questions but who are not familiar with research on question design, those who are just beginning to design survey instruments, and those who use survey data but do not themselves design survey instruments.

THE INSTRUCTOR

Nora Cate Schaeffer is Professor of Sociology at the University of Wisconsin-Madison and Faculty Director of the University of Wisconsin Survey Center. She has over twenty years of experience in survey methodology and questionnaire design and has taught Questionnaire Design at the University of Michigan's Summer Institute in Survey Research. Her research has been published in Journal of the American Statistical Association, Public Opinion Quarterly, Sociological Methods and Research, and Sociological Methodology. Her current service includes the Committee on National Statistics of the National Research Council.

TENTATIVE SCHEDULE

THURSDAY, APRIL 12, 2007

7:30-8:30	Check-in and Continental Breakfast
8:30-10:00	Introduction & Measurement in Surveys
10:00-10:15	Morning Break
10:15-11:45	Question about Events and Behaviors
11:45-12:45	Lunch
12:45-2:00	Questions about Events and Behaviors (continued)
2:00-2:15	Afternoon Break 1
2:15-3:15	Question about Events and Behaviors
3:15-3:30	Afternoon Break 2
3:30-4:30	Questions about Subjective Things
4:30	Adjourn

FRIDAY, APRIL 13, 2007

7:30-8:30	Check-in and Continental Breakfast
8:30-10:00	Questions about Subjective Things (continued)
10:00-10:15	Morning Break
10:15-12:00	Questions about Subjective Things (continued)
	Testing Questions: Cognitive Interviews
12:00-1:00	Lunch
1:00-2:45	Testing Questions: Cognitive Interviews (continued)
2:45	Adjourn

COURSE MATERIALS

Registrants will be provided with a course pack containing notes.

MEALS

JPSM group continental breakfasts, lunches and refreshments are included in the course fee.

SPONSOR AFFILIATE LIST:

<https://projects.isr.umich.edu/jpsm/sponsorlist.cfm>

FEES

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REGISTRATION

Online registration is required. Confirmation of acceptance will be sent after the registration form has been processed. Registration is not firm until you receive an acceptance email. The email will include directions to the course. The automatic web registration number is not an acceptance letter. Payment by credit card is required. Post registration payment may be done online using the web generated registration number or by calling (800) 937-9320. The registration deadline is March 29, 2007.

CANCELLATION

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 March 29, 2007. Cancellation March 30-April 4, 2007 will require a \$100 administrative fee, the remainder will be reimbursed. Cancellation on or after April 5, 2007 is subject to the full fee amount.

LOCATION

The course will be held at the Sheraton Crystal City Hotel, 1800 Jefferson Davis Highway, Arlington, Virginia. The Sheraton Crystal City Hotel is located in the "Crystal City" business district of Arlington, with nearby access to the Crystal City Metro Stop. Located at the intersection of 18th and Eads Street the hotel is 1 mile from Ronald Reagan National Airport. For room reservations call the hotel at (703) 486-1111 or 1-800-862-ROOM. Information, directions, and times will be sent with your acceptance email letter.

MINORITY FELLOWSHIPS

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- (3) The course registration form.

If you are applying for a minority fellowship, please be certain to register early. Applications are due before March 15, 2007. JPSM will evaluate the applications and inform the successful applicants by March 22, 2007. The fellowship covers the registration fee for the course, including the cost of materials to be distributed during the course and lunch.

JPSM CITATION PROGRAMS

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INQUIRIES

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COURSE INFORMATION:

<https://projects.isr.umich.edu/jpsm/materials/2007-0412.html>

LISTS, REGISTRATION, PAYMENT AND CANCELLATION:

<https://projects.isr.umich.edu/jpsm/index.html>

SPONSOR AFFILIATE LIST:

<https://projects.isr.umich.edu/jpsm/sponsorlist.cfm>

JPSM HOME PAGE: <http://www.jpsm.org> Click on "Short Courses"

Primary Funding for JPSM is from the Interagency Council on Statistical Policy.