



WSS NEWS

December 2009

WASHINGTON
STATISTICAL
SOCIETY

Annual Holiday Dinner!!!

Thursday December 17, 2009
6:00 pm
Finger Foods and Cash Bar

Please come join your friends and colleagues for a celebration of the holiday season.

The 2009 WSS Holiday Dinner will be held Thursday, December 17, at the Brickskeller starting at 6:00 to 9:00 pm. The menu includes mussels, cheese platter, chicken wings, spinach and artichoke dip, potatoes skin, and various sandwiches. The Brickskeller is located at 1523 22nd St NW, Washington, DC. For more information about the Brickskeller go to <http://www.lovethebeer.com/brickskeller.html>.

The price is \$30 per person or \$15 if you are a student.

Please send a check payable to WSS to: Chris Cummiskey, 701 13th Street, NW Suite 750, Washington, DC 20005. Checks and cash will be accepted at the party.

If you have questions, please contact Chris Cummiskey at ccummiskey@rti.org or (202) 728-2064.

Hope to see you there!

JEANNE E. GRIFFITH MENTORING AWARD NOMINATIONS SOUGHT

Beth Kilss, 2010 Chair, Griffith Award Selection Committee

It's time to start thinking about nominating an outstanding supervisor, technical director, team coordinator, or other member of a governmental statistical staff who encourages mentoring of junior staff in the Federal, State, or Local statistical system for the 2010 Jeanne E. Griffith Mentoring Award. Nominations must be submitted no later than March 26, 2010.

This year marked the first time in the award's 7-year history that two winners were chosen, as well as the first time the ASA's Government Statistics Section oversaw the award selection process. Kevin Cecco, Chief of the Corporation Statistics Branch, Statistics of Income Division, IRS, and Lillian Lin, Mathematical Statistician, Division of HIV and AIDS Prevention at the Centers for Disease Control and Prevention received their awards at a ceremony held on June 17, 2009, in Washington, D.C.

If you're not familiar with the award or would like more information about the current winners and the history of the award, see the excellent article (including a number of pictures from the ceremony) in the August 2009 issue of Amstat News, pp. 51-54, or go to <http://www.amstat.org/publications/amsn/2009/august.cfm>.

The Jeanne E. Griffith Mentoring Award was established to honor Dr. Griffith who 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.

Nominations for 2010 will be accepted beginning in January 2010. The last date for submission of nominations is March 26, 2010, and the Award Committee will make its determination of the award winner by May 7, 2010. The award will consist of a \$1,000 honorarium (to be split if there is more than one awardee), a citation, and a plaque, which will be presented at a ceremony arranged by the co-sponsors in June 2010.

The nomination packages are reviewed by a committee comprising six members who each serve a six-year term:

Emerson Elliott, National Center for Education Statistics (Retired)
Carol House, National Agricultural Statistics Service
Dan Kasprzyk, Mathematica Policy Research
Beth Kilss, 2010 Chair, Internal Revenue Service (Retired)
Stephanie Shipp, 2009 Chair, Science & Technology Policy Institute
Clyde Tucker, Bureau of Labor Statistics

Andy Orlin, Jeanne Griffith's husband, serves as emeritus member, thus providing continuity and historical perspective.

The recipients of the Jeanne E. Griffith Mentoring Award previous to this year's two winners are Rich Allen (National Agriculture Statistical Service), 2003; Beth Kilss (Internal Revenue Service), 2004; Renee Miller (Energy Information Administration), 2005; Martin O'Connell (U.S. Census Bureau), 2006; Stephanie Shipp (National Institute of Standards and Technology at the time of the award), 2007; and Rosemary D. Marcuss (Bureau of Economic Analysis), 2008.

The winning mentor(s) will be selected for his or her efforts in supporting the work and developing the careers of junior staff. Examples of typical mentoring activities include:

- Advising junior staff to help them create career opportunities, networking skills, and contacts for growth and development;
- Counseling junior staff and providing resources to help develop their technical writing, analysis, presentation and organizational skills and knowledge;
- Encouraging junior staff growth and career development through attendance and oral presentations at meetings with higher level officials, staffs of other agencies, professional associations, training courses, and conferences;
- Motivating junior staff and building self confidence through feedback on their efforts, being a listener when that is needed, and creating a caring and supportive environment;
- Serving as a role model for junior staff through professional expertise, information and insights, balancing collegial and personal roles, and including everyone across rank, race, ethnicity, and seniority.

Nominations should be prepared in the form of a letter or memorandum for the Award Selection Committee:

- The letter or memorandum should summarize the nominee's actions that support and encourage junior staff in the Federal, State, or Local statistical community in developing their careers.
- Nominations may be accompanied by up to six supporting letters. These should be attached to, and submitted with, the nomination.
- The Award Selection Committee finds that descriptions of what nominees actually do are the

strongest demonstration of candidate mentoring. Here are some examples: the mentor is a source of advice counsels with long-term goals in mind thought I was well qualified even though I had some doubts encourages staff to seek out positions that will increase their visibility and stretch their professional capabilities. These are more explicit and unique to the mentor than generic statements such as: the mentor is a coach a teacher.

Photo copies and email copies of support letters are acceptable.

For more information about the nominating process for the 2010 award, please go to:

<http://www.amstat.org/sections/sgovt/JEGform10.doc> or

<http://www.amstat.org/sections/sgovt/JEGform10.pdf>.

If you have questions about the award, please contact Monica Clark at monica@amstat.org, (703) 302-1860, and Beth Kilss at bakilss@msn.com, (703) 451-7240.

The nomination package may be mailed or emailed no later than March 26, 2010, to:

The Jeanne E. Griffith Mentoring Award Committee
c/o The American Statistical Association
732 N. Washington Street
Alexandria, VA 22314-1943
monica@amstat.org

Sponsors of the Award: The Government Statistics Section (GSS) of the American Statistical Association manages the award. GSS would like to thank our original co-sponsors:

- Washington Statistical Society,
- Social Statistics Section of the American Statistical Association,
- Interagency Council on Statistical Policy (ICSP),
- Council of Professional Associations on Federal Statistics,

and our two new co-sponsors:

- American Educational Research Association (AERA), and
- National Opinion Research Corporation (NORC).

Please contact Stephanie Shipp (sshipp919@gmail.com), if you would like to contribute to the award.

Nominations Sought for the 2011 Waksberg Award

The journal *Survey Methodology* has established an annual invited paper series in honor of Joe Waksberg to recognize his contributions to survey methodology. Each year a prominent survey statistician is chosen to write a paper that reviews the development and current state of an important topic in the field of survey methodology. The paper reflects the mixture of theory and practice that characterized Joe Waksberg's work.

The recipient of the Waksberg Award will receive an honorarium and give the 2011 Waksberg Invited Address at the Statistics Canada Symposium to be held in the autumn of 2011. The paper will be published in a future issue of *Survey Methodology*.

The author of the 2011 Waksberg paper will be selected by a four-person committee appointed by *Survey Methodology* and the American Statistical Association. **Nomination of individuals to be considered as authors or suggestions for topics should be sent before February 28, 2010 to the chair of the committee, Dan Kasprzyk (DKasprzyk@Mathematica-MPR.com).**

Previous Waksberg Award honorees and their invited papers are:

2001 Gad Nathan, "Telesurvey Methodologies for Household Surveys-A Review and Some Thoughts for the Future." *Survey Methodology*, vol. 27, no. 1, pp.7-31.

2002 Wayne Fuller, "Regression Estimation for Survey Samples." *Survey Methodology*, vol. 28, no. 1, pp. 5-23.

2003 David Holt, "Methodological Issues in the Development and Use of Statistical Indicators for International Comparisons." *Survey Methodology*, vol. 29, no. 1, pp. 5-17.

2004 Norman Bradburn, "Understanding the Question-Answer Process." *Survey Methodology*, vol. 30, no. 1, pp. 5-15.

2005 J.N.K Rao, "Interplay Between Sample Survey Theory and Practice: An Appraisal." *Survey Methodology*, vol. 31, no. 2, pp. 117-138.

2006 Alastair Scott, "Population-Based Case Control Studies." *Survey Methodology*, vol. 32, no. 2, pp. 123-132.

2007 Carl-Erik Särndal, "The Calibration Approach in Survey Theory and Practice." *Survey Methodology*, vol. 33, no. 2, pp. 99-119.

2008 Mary Thompson, "International surveys: Motives and Methodologies." *Survey Methodology*, vol. 34, no. 2, pp. 131-141.

2009 Graham Kalton, "Methods for Oversampling Rare Subpopulations in Social Surveys." *Survey Methodology* (forthcoming)

WSS and Other Seminars

(All events are open to any interested persons)

December

2 Wed. **Data, Information and Interpretation in Assessing the Sustainability of the Nation's Forests**

16 Wed. **Geographic Information (GIS) Data Collection and Storage**

17 Thurs. **Comparing the Census Bureau's Master Address File (MAF) with both Fresh Area Listing and Commercial Address Lists**

January

21 Thurs. **Developing a Data Analysis System for Categorical Survey Data**

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

Note from the WSS NEWS Editor

Items for publication in the January issue of the WSS NEWS will be accepted until December 17, 2009. E-mail items to Michael Feil at michael.feil@ams.usda.gov.

Announcement

SIGSTAT Topics for Fall/Winter 2009-2010

December 16, 2009: SAS for Forecasting Time Series: Part 2
(http://support.sas.com/publishing/bbu/companion_site/57275.html)

This month continues a series of meetings on the topic using SAS to forecast time series. We follow the book titled “**SAS for Forecasting Time Series 2nd Edition**” by Brocklebank and Dickey. Part 2: This month begins **Chapter 3: The General ARIMA Model**. Topics include prediction and model identification.

January 20, 2010: SAS for Forecasting Time Series: Part 3
(http://support.sas.com/publishing/bbu/companion_site/57275.html)

This month continues a series of meetings on the topic using SAS to forecast time series. We follow the book titled “**SAS for Forecasting Time Series 2nd Edition**” by Brocklebank and Dickey. Part 3: This month continues **Chapter 3: The General ARIMA Model**. Topics include using the IDENTIFY and ESTIMATE statements with a number of examples.

February 24, 2010: SAS for Forecasting Time Series: Part 4
(http://support.sas.com/publishing/bbu/companion_site/57275.html)

This month continues a series of meetings on the topic using SAS to forecast time series. We follow the book titled “**SAS for Forecasting Time Series 2nd Edition**” by Brocklebank and Dickey. Part 4: This month continues **Chapter 3: The General ARIMA Model**. Topics include models for nonstationary data and differencing to remove a linear trend.

March 17, 2010: SAS for Forecasting Time Series: Part 5
(http://support.sas.com/publishing/bbu/companion_site/57275.html)

This month continues a series of meetings on the topic using SAS to forecast time series. We follow the book titled “**SAS for Forecasting Time Series 2nd Edition**” by Brocklebank and Dickey. Part 5: This month begins **Chapter 4: The ARIMA Model: Introductory Applications**. Topics include an introduction to seasonal modeling and model identification.

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 **12:00 to 1:00**. 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 **SIGSTAT** website, <http://www.cpcug.org/user/sigstat/>.

Announcement

ASA Survey Research Methods Section

Our second webinar is going to be February 9, 2010. Details are on the website:
<http://www.amstat.org/sections/srms/webinar.cfm>

Tuesday, February 9, 2010, 1 to 3pm EST

The Psychology of Survey Response

Instructor: Roger Tourangeau

Abstract

This two-hour course examines survey questions from a psychological perspective. It covers the basics on how respondents answer survey questions and how problems in this response process can produce reporting errors. The class will focus on behavioral questions. The course is intended as an introduction for researchers who develop survey questionnaires or who use the data from surveys and want to understand some of the potential problems with survey data. It describes the major psychological components of the response process, including comprehension of the questions, retrieval of information from memory, combining and supplementing information from memory through judgment and inference, and the reporting of an answer. The course has no specific prerequisites, though familiarity with survey methodology or questionnaire design would be helpful.

Bio sketch

Roger Tourangeau is a Research Professor at the University of Michigan's Survey Research Center and the Director of the Joint Program in Survey Methodology (JSPM) at the University of Maryland. He has been a survey methodologist for nearly 30 years, with extensive experience in a wide range of surveys. Tourangeau is well-known for his methodological research on the impact of different modes of data collection and on the cognitive processes underlying survey responses. He is the lead author of a book on this last topic (*The Psychology of Survey Response*, co-authored with Lance Rips and Kenneth Rasinski and published by Cambridge University Press in 2000); this book received the 2006 Book Award from the American Association for Public Opinion Research (AAPOR). He is also one of the co-editors of a collection of papers (*Cognition and Survey Research*, published by Wiley in 1999) from a conference on cognitive aspects of survey response. In addition, he has published a number of papers on mode effects (including a very widely cited paper on audio-CASI with Tom Smith) and on forgetting and telescoping in surveys.

In 2002, Tourangeau received the Helen Dinerman Award for his work on the cognitive aspects of survey methodology. This is the highest honor given by the World Association for Public Opinion Research. In 2005, he received the 2005 AAPOR Innovators Award (along with Tom Jabine, Miron Straf, and Judy Tanur). He was elected a Fellow of the American Statistical Association in 1999 for his work on survey measurement error and his contributions to federal surveys as a sampling statistician. In 2006, he served as the chair of the Survey Research Methods Section of the American Statistical Association. He has a Ph.D. in Psychology from Yale University.

Program Announcement

- Title:** **Data, Information and Interpretation in Assessing the Sustainability of the Nation's Forests**
- Speaker:** Guy Robertson, Ph.D.
Sustainability Program Lead
U.S. Forest Service
- Chair:** Mike Fleming
- Date/time:** Wednesday, December 2, 2009 / 12:30 - 1:30 p.m.
- Location:** Bureau of Labor Statistics Conference Center. 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 Agriculture and Natural Resources Section
- Abstract:** The Montreal Process Criteria and Indicators for Forest Sustainability (MP C&I) provide the foundation for the 2010 National Report on Sustainable Forests, a major Forest Service reporting effort currently underway. The processes through which the MP C&I were derived and applied as well as the specific content of selected indicators will be the focus of this talk. The MP C&I include 64 indicators spanning ecological, economic and social dimensions associated with the sustainability of forest ecosystems, and they entail a host of technical and conceptual issues related to data gathering, reporting and interpretation. Moreover, the underlying concept of sustainability presents various challenges both when considered generally and within the context of specific indicators. These topics and others will be discussed within the general context of presenting the overall findings of the 2010 Report.

Point of contact e-mail: grobertson02@fs.fed.us

Program Announcement

- Title:** **Geographic Information (GIS) Data Collection and Storage**
- Speakers:** Chuck Roberts, ESRI Federal Account Manager and Tosia Shall, ESRI Sales Engineer
- Discussant:** TBD
- Chair:** Marcela Rourk, Mathematical Statistician, Energy Information Administration
- Date/Time:** Wednesday, December 16, 2009 / 12:30 - 2:00 p.m.
- Location:** Bureau of Labor Statistics Conference Center, Room 2. 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.
- Sponsors:** WSS Data Collection Methods, WSS Agriculture and Natural Resources and DC-AAPOR
- Abstract:** This presentation will describe methods creating geographic data, storing it in a database, and displaying it for analysis. We will detail methods of data collection, what attributes differentiate GIS data from other types of data, and how to best format the data for storage in a database.
- Once the data are geographically referenced in a database, we will further explore how these GIS data can be accessed and displayed with data from other sources to further enhance its usability. These other sources of data can be internal or external to your organization. We will discuss some of these external data sites as well as detail how they disseminate their GIS data.

For further information contact Carol Joyce Blumberg at carol.blumberg@eia.doe.gov or (202) 586-6565.

Program Announcement

- Title:** Comparing the Census Bureau's Master Address File (MAF) with both Fresh Area Listing and Commercial Address Lists
- Speakers:** Clifford Loudermilk and Timothy Kennel
Mathematical Statisticians
U. S. Census Bureau
- Discussant:** Vince Iannacchione
Senior Research Statistician
RTI International
- Organizer:** David Judkins, Westat
WSS Methodology Program Chair
- Chair:** Brian Meekins, BLS
WSS Methodology Section Chair
- Date/Time:** Thursday, December 17, 2009 / 12:00 - 1:30 p.m.
- Location:** Bureau of Labor Statistics, 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. Use the Red Line to Union Station.
- Sponsor:** Methodology Section, WSS
Cosponsor: Data Collection Methods, WSS
- Abstract:** This is an expanded version of two talks from the JSM. In the first talk, Loudermilk reports on joint work with Mei Li to assess the suitability of the MAF as a replacement for the frame for current surveys at the Census Bureau such as the Current Population Survey. They used fresh area listings for this purpose. In the second talk, Kennel reports on joint work with Mei Li to compare the coverage of a commercially available address list with that of the MAF and to that from the same fresh area listings produced to study MAF coverage. Together, these talks should be of high interest to sampling statisticians both inside and outside of the federal government.

Program Announcement

- Title:** **Developing a Data Analysis System for Categorical Survey Data**
- Speakers:** Phillip S. Kott
Senior Research Statistician, RTI International
- Discussant:** TBD
TBD
TBD
- Chair:** Brian Meekins, BLS
- Date/Time:** Thursday, January 21, 2010 / 12:30 - 2:00 p.m.
- Location:** Bureau of Labor Statistics, 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. Use the Red Line to Union Station.
- Video Link:** Westat, Rockville Offices. On a trial basis, Westat is opening up its conference center for watching the lecture remotely. Reservation required. Call Fran Winter, 301-294-4419.
- Sponsor:** Methodology Program, WSS
- Abstract:** Many government statistical agencies are either thinking about developing a data analysis system (DAS) to display interactively the results of their surveys or already have one in place. A DAS can be used to generate tables at the user's request and may even be able to conduct more sophisticated (but still limited) statistical analyses. Before constructing such a system, there are a number of questions the agency must address. Two in particular are of concern here for categorical data derived from a sample survey: How is the anonymity of the survey respondent to be protected given that the same user can make multiple requests of the system; and should public users be protected from the release of estimates with overly large coverage intervals? We argue that the users themselves can decide whether estimates are accurate enough for their purposes, but to do that there need to be well-behaved coverage intervals for those estimates. It turns out that the rule needed to construct a good coverage interval for the estimated target is very similar to that needed to assure data confidentiality.

Announcement

ASA Committee on Law and Justice Statistics Open Solicitation for Research Proposals

The American Statistical Association (ASA) Committee on Law and Justice Statistics announces a small grant program for the analysis of Bureau of Justice Statistics (BJS) and other justice-related data. This program is designed to encourage the creative and appropriate use of these data to inform substantive and methodological issues. Awards are generally to be completed within a two-year period and are typically in the range of \$25,000 to \$40,000.

Proposals must be e-mailed by January 15, 2010. More information can be found at: <http://www.amstat.org/careers/pdfs/BJSsolicitation.pdf>

Announcement

The Applied and Computational Mathematics (ACM) Program at the Johns Hopkins University will offer the graduate courses listed below in the spring semester (25 January 2010 to 8 May 2010) at locations in the Baltimore- Washington area (Montgomery, Howard, and Harford Counties, Maryland).

Subject to meeting admission criteria, a non-degree candidate may register as a special student to take one or more courses to enhance mathematical and statistical skills. These courses are scheduled at times convenient for the working adult. Registration and general information is at ep.jhu.edu. Information specific to the ACM Program is at ep.jhu.edu/graduate-degree-programs/applied-and-computational-mathematics; web sites for individual courses are at ep.jhu.edu/course-homepages. For further information related to academic requirements and course content, please contact Dr. James Spall, Program Chair, at james.spall@jhuapl.edu or 240-228-4960.

625.251 Applied Mathematics II (this course is not offered for graduate credit)

Instructor: James D'Archangelo

Time and location: Wednesdays, 7:20 - 10:00PM, Applied Physics Laboratory (southern Howard County)

(This course is a companion to 625.250) Topics include ordinary differential equations, Fourier series and integrals, the Laplace transformation, Bessel functions and Legendre polynomials, and an introduction to partial differential equations.

Prerequisites: Differential and integral calculus. Students with no experience in linear algebra may find it helpful to take 625.250 Applied Mathematics I first.

625.403 Statistical Methods and Data Analysis (Offered at two locations)

Location 1: Instructor: Sue-Jane Wang

Time and location: Mondays, 4:30 - 7:10PM, Montgomery County Center (Rockville, MD)

Location 2: Instructor: Barry Bodt

Time and location: Tuesdays, 4:30 - 7:10PM, HEAT Center (Aberdeen, Harford County, MD)

This course introduces commonly used statistical methods. The intent of this course is to provide an understanding of statistical techniques and guidance on the appropriate use of methodologies. The course covers the mathematical foundations of common methods as an aid towards understanding both the types of applications that are appropriate and the limits of the methods. Matlab and statistical software are used so students can apply statistical methodology to practical problems in the workplace. Topics include the basic laws of probability and descriptive statistics, conditional probability, random variables, expectation and variance, discrete and continuous probability models, bivariate distributions and covariance, sampling distributions, hypothesis testing, method of moments and maximum likelihood point (MLE) estimation, confidence intervals, contingency tables, analysis of variance (ANOVA), and linear regression modeling.

Prerequisite: Multivariate calculus.

625.404 Ordinary Differential Equations

Instructor: Ronald Farris

Time and location: Thursdays, 4:30 - 7:10PM, Applied Physics Laboratory (southern Howard County)

Topics discussed throughout the course include methods of solving first-order differential equations, existence and uniqueness theorems, second-order linear equations, power series solutions, higher-order linear equations, systems of equations, non-linear equations, Sturm-Liouville theory, and applications.

Prerequisite: Two or more terms of calculus.

625.417 Applied Combinatorics and Discrete Mathematics

Instructor: J. Miller Whisnant

Time and location: Tuesdays, 4:30 - 7:10PM, Applied Physics Laboratory (southern Howard County)

Combinatorics and discrete mathematics are increasingly important fields of mathematics because of their extensive applications in computer science, statistics, operations research, and engineering. The purpose of this course is to teach students to model, analyze, and solve combinatorial and discrete mathematical problems. Topics include elements of graph theory, graph coloring and covering circuits, the pigeonhole principle, counting methods, generating functions, recurrence relations and their solution, and the inclusion-exclusion formula. Emphasis is on the application of the methods to problem solving.

Prerequisite: Two or more terms of calculus.

625.438 Neural Networks

Instructor: Mark Fleischer

Time and location: Mondays, 4:30 - 7:10PM, Applied Physics Laboratory (southern Howard County)

This course provides an introduction to concepts in neural networks and connectionist models. Topics include parallel distributed processing, learning algorithms, and applications. Specific networks discussed include Hopfield networks, bidirectional associative memories, perceptrons, feedforward networks with back propagation, and competitive learning networks, including self-organizing and Grossberg networks. Software for some networks is provided.

Prerequisite: Multivariate calculus.

625.461 Linear Models and Regression

Instructor: Allan D. McQuarrie

Time and location: Wednesdays, 7:20 - 10:00PM, Applied Physics Laboratory (southern Howard County)

Introduction to regression and linear models including least squares estimation, maximum likelihood estimation, the Gauss-Markoff Theorem, and the Fundamental Theorem of Least Squares. Topics include estimation, hypothesis testing, simultaneous inference, model diagnostics, transformations, multicollinearity, influence, model building and variable selection. Advanced topics include nonlinear regression, robust regression, and generalized linear models including logistic and Poisson regression.

Prerequisites: One semester of statistics (such as 625.403), multivariate calculus, and linear algebra

625.485 Number Theory (New Course)

Instructor: Leonid Stern

Time and location: Tuesdays, 7:20 - 10:00PM, Applied Physics Laboratory (southern Howard County)

This course covers principal ideas of classical number theory, including the fundamental theorem of arithmetic and its consequences, congruences, cryptography and the RSA method, polynomial congruences, primitive roots, residues, multiplicative functions, and special topics.

Prerequisites: Multivariate calculus and linear algebra.

625.710 Fourier Analysis with Applications to Signal Processing and Differential Equations

Instructor: Richard Spencer

Time and location: Wednesdays, 4:30 - 7:10PM, Dorsey Center (eastern Howard County near BWI Airport)

This is an applied course covering the theory and applications of Fourier analysis, including the Fourier transform, the Fourier series and the discrete Fourier transform. Applications in signal processing will be emphasized, including the sampling theorem and aliasing, convolution theorems, spectral analysis, and the imaging point spread function. Further applications, also incorporating the Laplace transform, will be taken from studies of differential equations arising in engineering and physics.

Prerequisites: Some familiarity with complex variables, differential equations, and linear algebra.

625.722 Probability and Stochastic Processes II

Instructor: Mostafa Aminzadeh

Time and location: Wednesdays, 4:30 - 7:10PM, Applied Physics Laboratory (southern Howard County)

This course is an introduction to the theory of discrete-time stochastic processes. Emphasis in this course is given to Poisson processes, renewal theory, renewal reward process, Markov chains, continuous-time Markov chains, birth and death process, Brownian motion, and random walks.

Prerequisites: Differential equations and 625.721 Probability and Stochastic Process I or equivalent.

625.728 Measure-Theoretic Probability

Instructor: Stacy Hill

Time and location: Thursdays, 4:30 - 7:10PM, Applied Physics Laboratory (southern Howard County)

This course provides a rigorous, measure-theoretic introduction to probability theory. It begins with the notion of fields, sigma-fields, and measurable spaces, and also surveys elements from integration theory and introduces random variables as measurable functions. It then examines the axioms of probability theory and fundamental concepts including conditioning, conditional probability and expectation, independence, and modes of convergence. Other topics covered include characteristic functions, basic limit theorems (including the weak and strong laws of large numbers), the central limit theorem, and martingales.

Prerequisites: 625.401 Real Analysis and 625.403 Statistical Methods and Data Analysis.

625.734 Queuing Theory with Applications to Computer Science

Instructor: Christine Nickel

Time and location: Mondays, 7:20 - 10:00PM, Applied Physics Laboratory (southern Howard County)

Queues are a ubiquitous part of everyday life; common examples are supermarket checkout stations, help desks call centers, manufacturing assembly lines, wireless communication networks, and multi-tasking computers. Queuing theory provides a rich and useful set of mathematical models for the analysis and design of service process for which there is contention for shared resources. This course explores both theory and application of fundamental and advanced models in this field. Fundamental models include single and multiple server Markov queues, bulk arrival and bulk service processes, and priority queues. Applications emphasize communication networks and computer operations, but may include examples from transportation, manufacturing, and the service industry. Advanced topics may vary.

Prerequisites: Multivariate calculus and knowledge of probability.

Announcement

Nominations Sought for 2010 Julius Shiskin Award

Nominations are invited for the annual Julius Shiskin Memorial Award for Economic Statistics. The Award is given in recognition of unusually original and important contributions in the development of economic statistics or in the use of statistics in interpreting the economy. Contributions are recognized for statistical research, development of statistical tools, application of information technology techniques, use of economic statistical programs, management of statistical programs, or developing public understanding of measurement issues. The Award was established in 1980 by the Washington Statistical Society (WSS) and is now cosponsored by the WSS, the National Association for Business Economics, and the Business and Economics Statistics Section of the American Statistical Association (ASA).

The award will be presented with an honorarium of \$750 plus additional recognition from the sponsors. A nomination form and a list of all previous recipients are available on the ASA Website at www.amstat.org/sections/bus_econ/shiskin.html. Completed nominations must be received by March 5, 2010. For questions or more information, please contact Steven Paben, Julius Shiskin Award Committee Secretary, via e-mail at paben.steven@bls.gov or call 202-691-6147.

Announcement

JPSM Short Courses

www.jpsm.org/shortcourses

December 17-18, 2009
Introduction to Survey Sampling
Colm O'Muircheartaigh and James M. Lepkowski
Registration Deadline: December 3, 2009

January 11-12, 2010
Web Survey Design
Mick P. Couper
Registration Deadline: December 28, 2009

February 1-2, 2010
Experimental Design for Surveys
Roger Tourangeau
Registration Deadline: January 18, 2010

February 23-24, 2010
Balancing Data Confidentiality and Data Quality
Lawrence Cox
Registration Deadline: February 9, 2010

March 3-4, 2010
Introduction to Survey Estimation
David Morganstein and Richard L. Valliant
Registration Deadline: February 17, 2010

March 29-30, 2010
Writing Questions for Surveys: A Workshop
Nora Cate Schaeffer
Registration Deadline: March 15, 2010

April 22-23, 2010
Cognitive Interviewing Methods: A Hands-On Approach
Gordon B. Willis
Registration Deadline: April 8, 2010

May 4-5, 2010
Sampling and Estimation for Establishment Surveys
Richard Valliant and Phillip Kott
Registration Deadline: April 20, 2010

May 26, 2010 (1-Day course)
Introduction to Item Response Theory (IRT) Modeling and Applications
Bryce B. Reeve
Registration Deadline: May 12, 2010

JPSM SHORT COURSES: www.jpsm.org/shortcourses; SPONSOR AFFILIATE LIST:
projects.isr.umich.edu/jpsm/info.cfm#sponsors; JPSM HOME PAGE: www.jpsm.org

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

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.

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 1,900 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/90001)

A total of 3 or more years of relevant experience in sample design and selection, frames development, weighting, imputation, and variance estimation. Applicant 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

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ASSOCIATE TO FULL PROFESSOR OF STATISTICS OR BIOSTATISTICS

The Department of Statistics (DOS) and The Biostatistics Center (BSC) of The George Washington University are recruiting a tenured faculty position at the Associate Professor or Professor level. Basic Qualifications are a PhD in Statistics or Biostatistics, an established program of research, and a strong national and international reputation. Core responsibilities of the position will be to serve as Principal Investigator or co-Investigator on one or more BSC major projects; to teach 1 course per year in the DOS and to advise PhD students in Statistics and Biostatistics. The position will be tenured and funded 100% in Year 1. Salary support will decrease to 25% over a 5-year period. The remaining salary will be funded by sponsored projects (either at the BSC, or other external funding secured by the faculty member). Review of applications will begin May 1, 2008 and will continue until the position is filled. For additional information and the application procedure, please see <http://www.gwu.edu/~stat/>.

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

CLINICAL TRIAL BIOSTATISTICIANS

The Biostatistics Center of The George Washington University is currently recruiting biostatisticians 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.

Basic 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. All interested applicants at the rank of Assistant Professor in Biostatistics or Statistics may 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, professional activities and travel. Review of applications is ongoing until the positions are filled. For complete information and application procedures, please visit our website at: www.bsc.gwu.edu. Only complete applications will be considered

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

DIRECTOR OF BIOSTATISTICS

*Interested candidates should apply under <http://www.hjf.org/careers/search.html> for Job ID# 203931 **Faculty Position: Director of Biostatistics**, Infectious Disease Clinical Research Program (IDCRP) in the Department of Preventive Medicine and Biometrics (PMB) at Uniformed Services University of the Health Sciences in Bethesda, MD*

Responsibilities

Seeking a Director of Biostatistics for the Infectious Disease Clinical Research Program (IDCRP) in the Department of Preventive Medicine/Biometrics (PMB) at Uniformed Services University of the Health Sciences in Bethesda, MD. The incumbent reports to the Director of the IDCRP. Responsibilities are to coordinate and provide biostatistical support for clinical and/or laboratory research, oversee statistical support and collaborations in clinical research protocols carried out in the IDCRP, and coordinate IDCRP data management activities within IDCRP and with senior personnel at the collaborating data management activity. Oversee coordination of statistical review requirements to support scientific review board and data monitoring board activities. Direct and lecture in graduate level courses on clinical research and lecture to medical students. Mentors graduate students, residents, and fellows conducting clinical research. Mentors junior biostatisticians and promotes additional publications and presentations of applications/methods for

problems motivated by clinical research collaborations. Must have knowledge of medical science and research; knowledge of statistics relevant to clinical research; ability to communicate effectively; ability to make effective presentations and publish; excellent verbal, written and interpersonal skills. This involves performing statistical analysis on data collected from clinical trials, laboratory / translational research experiments, and/or epidemiologic observational research studies.

Incumbent provides senior management of statistical analysis and data management activities within IDCRC. Coordinates with senior personnel at collaborating data coordinating/analysis organizations to work toward and address research program goals. Recommends and advises on the design of biomedical research protocols. Provides statistical support via statistical consultation and data analyses throughout the courses of studies and prepares statistical reports for presentations and publications. Provides relevant statistical and project status updates to research staff. Recommends and implements changes as needed. Coordinates statistical review requirements to support scientific review board and data monitoring board activities. Works with research staff to achieve the goals of the research program. Supervises junior biostatisticians and data analysts. Direct and lecture in graduate level courses on clinical research and lecture to medical students. Mentors graduate students, residents, and fellows conducting clinical research. Performs other duties as required.

Required Knowledge, Skills, and Abilities: experience in the design, monitoring, and analysis of clinical trials and/or epidemiologic observational studies; experience in organizing and tracking multiple statistical support activities; experience in research administration, including supervision of statistical and/or data management personnel; knowledge of medical science and research; collaborative/ participatory decision-making skills; skills for identifying and addressing statistical issues in applications for extramural research; ability to communicate effectively; ability to make effective presentations and publish; excellent verbal, written and interpersonal skills.

Minimum Education/Training Requirements: Ph.D. in Biostatistics, Statistics or related field

Minimum Experience: At least 10 years experience, having progressed to the level of senior statistician managing a data coordinating and analysis center for 1 or more clinical research contract(s)/grant(s)/program(s).

Physical Capabilities: extended periods of sitting

Supervisory Responsibilities/Controls: supervises junior biostatisticians

Work Environment: office or laboratory environment

Any qualifications to be considered as equivalents, in lieu of stated minimums, require the prior approval of the Director of Human Resources, Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc. (HJF)

The Biostatistics Center Research Assistant Position

The Biostatistics Center of the George Washington University is seeking an individual interested in working on a new and exciting study of the Microbiome of the lung in HIV-infected patients. We are looking for a person with demonstrated leadership qualities and organizational skills. The successful candidate must be a self-starter, detailed oriented, and possesses good oral and written communication skills. The position involves completing a wide-variety of duties from writing reports and updating investigators on study progress, to overseeing data collection and management, as well as developing and maintaining a manual of operations and other documentation.

Must have a BA/BS degree with preference given to those with a mathematics, statistics, or science

background; 1-3 years working experience in a research environment; and excellent oral/written communication skills required. Demonstrated experience in any of the following areas is a plus; data management, specimen tracking, R-programming, and setting up quality assurance programs. Position title and salary will be commensurate with experience and qualifications. Tuition benefits for employees, spouse and dependents.

Letter referencing UR# 15905 and resume to Ms. Monroe, The George Washington University Biostatistics Center, at ResearchJobs@bsc.gwu.edu, fax 301-881-3742 or mail to 6110 Executive Blvd., #750, Rockville, MD 20852. No phone calls please. Visit our website at: www.bsc.gwu.edu. EOE/AA.

BRANCH CHIEF (SUPERVISORY AGRICULTURAL ECONOMIST)

USDA'S ECONOMIC RESEARCH SERVICE (ERS) RESOURCE AND RURAL ECONOMICS DIVISION FARM AND RURAL BUSINESS BRANCH

Client:

The Economic Research Service (ERS) serves as the research and policy arm of the United States Department of Agriculture (USDA). With 400 employees and a budget of approximately \$80 million, ERS conducts research that informs decision-makers on public programs and policies involving agricultural commodities, food, farming, natural resources, and rural development; a spectrum that ranges from biotechnology to food stamps, from farmland protection to meat inspection, and from commodity policy to global inter-sectoral trade. The Farm and Rural Business Branch (FRB) develops, interprets, and disseminates current analyses and longer term perspectives on the financial structure and performance of farms, the farm sector, and rural areas. Notably, the Branch produces USDA's estimates and forecasts of farm income. The Branch plays a key role in development of the survey data that underpin the farm income estimates and the research program (the Agricultural Resource Management Survey or ARMS). Research themes include analysis of farm business formation to understand how ownership and operating structures affect access to resources, financial performance, and the distribution of income and wealth. Farmer's choices regarding input procurement, market channels, work, and investment are examined and linkages between farm and non-farm businesses and rural communities are analyzed. The Branch monitors rural industry structure to assess changes in economic base, income, and employment. Sources and processes of rural economic growth are examined, with an emphasis on such factors as amenities, creative capital, and entrepreneurship. Rural development strategies are examined with a primary focus on assessing access to, and use of, information and communication technologies in rural areas, tourism and recreation, and energy and renewable fuels.

Duties and Responsibilities:

A. Scope of Assignment

Reporting to the Director, Resource and Rural Economics Division (RRED), the Branch Chief is responsible for planning, directing, and managing the Branch's program of agricultural economic research, analysis, and information dissemination. This includes the coordination and integration of this Branch's program of research and analysis with those of other branches within ERS.

The Branch Chief is responsible for serving as the Agency's reference point to provide economic advice and counsel relating to the Branch's area of responsibility. This includes providing technical

information and advice to other U.S. government agencies, and serving on various Department-level committees, as well as interagency and interdepartmental task forces.

B. Technical Responsibility

The Branch Chief is responsible for defining research studies and analyses to be undertaken within the Branch and allocating resources, and is also responsible for the validity and integrity of the economic results produced. This includes the oversight of data collection, economic analysis and research; publication of results and findings; and selecting appropriate methods for dissemination of the results of research including working papers, agency publications, professional journals, and magazines.

The Branch Chief is responsible for providing the overall management of a number of technically-complex projects which involve selecting or developing the most appropriate and current research methodologies, often of great complexity, and applying them to extremely complicated economic problems. He/she is responsible for maintaining a high degree of expertise in the subject-matter areas of technical concern to the Branch and in the process of adapting and modifying methods of economic research and analysis and/or developing and designing new methods as necessary to provide solutions to technical problems.

The Branch Chief represents the Branch within the Department, with responsibility for oversight, or coordination of, the preparation of briefings/working papers for the Secretary of Agriculture or the Under Secretary for Research, Economics, and Education, and of position papers for national and international meetings.

C. Administrative Responsibility

The Branch Chief is responsible for the development of program and product plans for the Branch. This includes work plans, as well as development and justification of a budget. The incumbent is responsible for identifying promising and pertinent areas of research, providing technical advice to develop and expand research activities, and thus helping to plan the ERS research and analytical program as well as its related product/publication portfolio.

The Branch Chief rates performance of, and approves sick and annual leave for, all Branch employees. The incumbent selects new employees for the Branch and recommends current employees for promotion. He/she hears and resolves major grievances and employee complaints and makes recommendations concerning more serious disciplinary actions. The incumbent consults with employees regarding training needs and submits final recommendations. He/she also keeps employees informed regarding personnel and other administrative programs, and maintains morale, discipline, and constructive employee relations.

Requirements:

A minimum of 10 years sophisticated economic and/or financial research. A Ph.D. in Economics, Agricultural Economics, or Finance is highly preferred.

Technical Qualifications (Knowledge, Skills, and Abilities (KSAs): (Please develop a written response, of no more than one page, to each KSA.)

1. Demonstrated ability to plan, develop, and manage a program of economic research and outlook, and its dissemination. Expertise in the economics of business or farm finance a plus.

2. Ability to lead and accomplish work through others (includes conflict management, cultural awareness, team building, and integrity/honesty).
3. Demonstrated skill in communicating economic concepts and research results to a variety of audiences including peer-reviewed publications, and making presentations to high-level policy officials, academics, and other audiences.
4. Ability to communicate with individuals or groups from diverse backgrounds in a variety of situations (including oral and written communication, influencing/negotiating, partnering, interpersonal skills, and political savvy.)

Location: Washington, DC

Compensation: to \$153,200

EEO: All candidates will be considered without regard to race, color, religion, gender, sexual orientation, national origin, or disability. The ERS provides reasonable accommodations to applicants with disabilities.

Deadline: To be considered, applications must be received no later than midnight, November 30, 2009.

Citizenship: U.S. Citizenship required. You may be required to obtain a security clearance.

Contact:

Jennifer Moss
JDG Associates, Ltd.
1700 Research Boulevard
Rockville, MD 20850
301-340-2210
moss@jdgsearch.com

JDG Associates, established in 1973, is a leading provider of executive recruiting services to the federal government, non profit organizations, associations, Fortune 1000 corporations, and a variety of government contractors.

GEORGETOWN UNIVERSITY MEDICAL CENTER

FACULTY BIOSTATISTICIAN CLINICAL TRIALS

DEPARTMENT OF BIOSTATISTICS, BIOINFORMATICS AND BIOMATHEMATICS

The Department of Biostatistics, Bioinformatics and Biomathematics invites applications for a position as a tenure-track assistant or associate professor of Biostatistics. Applicants should have a Ph.D. in Biostatistics or Statistics, expertise in the application of statistical methodology to clinical trials and at least 3 years experience in this field. The requirements for this position are a strong research background, excellent communication skills and an interest in teaching. The successful candidate will collaborate with physicians and scientists from the Lombardi Comprehensive Cancer Center, conduct independent biostatistical research, and teach in our Master's degree program.

Interested individuals should send a letter of application, curriculum vitae, and the names and addresses (including e-mail address) of three references to:

Françoise Seillier-Moiseiwitsch, Chair
Department of Biostatistics, Bioinformatics, and Biomathematics
Georgetown University Medical Center
Building D, Suite 180
4000 Reservoir Road
Washington, DC 20057-1484

or lrs8@georgetown.edu

This position has an immediate starting date. Applications will be reviewed until the position is filled.

Vice President, Research American Academy of Physician Assistants

The American Academy of Physician Assistants (AAPA) is recruiting for the position, Vice President, Research. This position reports to the Senior Vice President and Chief Operating Officer.

AAPA is the national voice for physician assistants (PAs) in all medical and surgical specialties. Today there are over 76,000 practicing PAs in the United States and approximately 12,000 students in 145 PA programs. Approximately 42,000 PAs are members of AAPA; included in this membership number are 8,800 PA students.

AAPA has an annual operating budget of approximately \$17 million and a staff of 86. Our office is located in Alexandria, Virginia.

In this position, you will play a critical role in advocating for and supporting the PA Profession through data analysis and research. We are looking for a health services researcher with a minimum of 10 years experience conducting research on a broad range of health policy topics. You must have extensive experience in designing and conducting healthcare research using primary and secondary data collection and analytical techniques. This includes developing survey instruments, ongoing data collection, and analysis of information related to the Physician Assistant profession obtained from a variety of sources, including the AAPA census, educational institutions, state provided data, and supplemental ad hoc surveys.

You will interface with members to support research and analysis on the profession and the profession's impact on in the health care arena. In addition, you will prepare research reports and articles for dissemination via the internet and publications such as the PA Professional, the Journal of the American Academy of Physician Assistants and other peer reviewed journals. You will provide data and analysis on PAs for AAPA staff to use for a variety of purposes, such as: lobbying for changes in PA practice laws; promoting the profession to physician organizations, health care institutions, and employers; changing insurance company policies to cover services provided by PAs; and assisting individual members to remove practice barriers.

Education and Experience Requirements

- Master's degree with minimum of 10 years professional experience with a publication track record in health services research, statistics or relevant field related to healthcare; Ph.D. preferred.
- Advanced knowledge of survey research methods, survey design, data processing, statistics, and computer applications
- Experience working with a variety of information systems and data files, including large and complex files: analyzing structure, using and creating file layouts, transforming raw data into

finished products.

- Excellent writing and speaking ability including excellent interpersonal skills
- Detailed- and results-oriented, well organized, flexible, ability to prioritize and work on many project concurrently.
- Available to do some travel and work some weekends.

We offer a very competitive benefits package.

To apply, send your resume and a detailed cover letter along with your salary requirements to HR@aapa.org. Your cover letter should explain why you are interested in this position. It should provide information pertinent to your experiences as they relate to the Vice President, Research position.



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*Washington Statistical Society
Holiday Party
Thursday December 17th, 2009 6:00pm*



At the Brickskeller

<http://www.lovethebeer.com/brickskeller.html>
1523 22nd St NW (Between P & Q street)
Washington, DC 20037
Tele: 202.293.1885

Cash Bar

Some dishes to be served (all inclusive):

Mussels	Cheese Platter	Chicken Wings
Spinach and Artichoke Dip	Potatoes Skins	Various Sandwiches

Price \$30
..... \$15 (students)

Please make check payable to:

“Washington Statistical Society”

–Include the full names of all individuals paid for by the check.

Send to: Chris Cummiskey

701 13th Street, NW Suite 750, Washington, DC 20005

(Checks and cash will be accepted at the party)

Questions? Please Contact: Chris Cummiskey
ccummiskey@rti.org / (202) 728-2064

Metro Directions ([map](#)): Exit the Dupont Circle Red Line metro stop at Q St., veer left off the escalator and walk two blocks down Q St. Cross Mass Ave and veer left onto 22nd St. We are a half block down the road on the left, directly across the street from the church between P and Q St.