

## Message from the 2006 Program Chair

By **Dave Judkins**

The theme for this year's meeting is "Statistics for an Uncertain World: Meeting Global Challenges." As always, members of our section have been working hard to improve the methods in the field and to prepare sessions that help you keep abreast of all their newest research. This year, we have a total of 45 sessions, among which there are 7 invited, 14 topic contributed and 24 regular contributed. Since there are only 13 slots for parallel sessions, this means that there will almost always be 3 or 4 simultaneous SRMS sessions. In assigning sessions to time slots, we (Steve helped me out) tried to spread related sessions across slots. The big categories that you will note in the regular contributed sessions this year are:

- Unit Nonresponse in Surveys (4 sessions)
- Sample Survey Design (2 sessions)
- Survey-Based Estimation (6 sessions)
- Sample Survey Quality (5 sessions), and
- Survey-Based Variance Estimation (2 sessions)

There are also sessions on disclosure avoidance, interview mode considerations, small area estimation, and imputation. As most of you know, the presenters in the regular sessions each have 15 minutes, so you will see seven talks in most of these sessions. Presenters in topic contributed sessions have 20 minutes each, so you will usually see four or five papers in a session, sometimes with a discussant. The topic contributed sessions were organized by staff from AHRQ, EIA, NAS-CNS, NCHS, NORC, RTI, U. of Illinois-Chicago, U. of Nebraska-Lincoln, the U.S. Census Bureau, and Westat.



### Inside This Issue

2	<b>CPS Data on Hurricane Katrina Evacuees</b>
4	<b>Executive Committee Reports</b>
6	<b>Section News</b>
6	<b>Awards</b>
7	<b>Announcements</b>
Insert	<b>Executive Committee Members</b>

Some of the additional topics in these sessions that are not covered in the regular sessions include

- The use of finite population correction factors
- Census publication plans
- The impact of natural disasters on survey work
- Research on medical expenditures
- Cross-cultural instrument design
- Record linkage

One of my duties this year was to serve as one of the judges for the student paper contest that we jointly sponsor with Social Statistics and Government Statistics. The five bright young winners will receive their awards and deliver their papers Sunday at 4:00. I think you'll find their work to be very impressive.

Of course, the invited sessions are a platform for some of our most respected colleagues. The presenters each have 25 minutes, and there is a formal discussant in most of the sessions. The organizers, topics and times for the invited sessions are

- Paul Levy (RTI), Small area estimation, Sunday, 2:00
- Ralf Münnich (U. of Trier), Variance estimation, Monday 2:00
- Avi Singh (Stat Can), Small area estimation, Tuesday, 8:30
- Milorad Kovacevic (Stat Can), Multi-level modeling, Tuesday, 2:00
- Myron Katzoff (NCHS), Rare Trait Inference, Wednesday, 8:30
- Phil Kott (NASS), Empirical likelihood, Wednesday, 2:00
- Michael Elliott (U of Mich), Bayesian Survey Methods, Thursday, 8:30

In addition to the sessions formally sponsored by our section, there are many sessions sponsored by other sections that look very interesting (particularly those sponsored by Social Statistics and Government Statistics – our sister sections). I had the option to go through those sessions and "cosponsor" them as a way of drawing your attention to them. However, we have so many of our own that I decided not to do this. Nonetheless, I would like to highlight one, in particular. This is the session organized by Jai Choi (NCHS) to give career advice to young

statisticians. Joe Waksberg was to have spoken in that session, but he passed away this January. In his place, several of his longstanding colleagues will reflect on Joe's career and on why so many of our colleagues like him continue to work long past the traditional retirement age. This session will be Thursday at 10:30.

The round table luncheons present opportunities to have more in-depth discussions with the leaders in our field. I think that they are particularly exciting opportunities for junior statisticians to meet with their seniors from other organizations. Steven Heeringa, the 2007 Program Chair for SRMS, has organized the following menu.

- The importance of Nonresponse for Survey Design, led by **Roger Tourangeau** (JPSM) on Monday,
- Optimization of Survey Procedures in the Presence of Limited Cost Information, led by **John Eltinge** (BLS) on Monday,
- Sharing Frame Information to Improve Coverage and Reduce Cost and Duplication of Effort, led by **Paula Weir** (EIA) on Tuesday,
- Bayesian Inference for Complex Sample Surveys, led by **Roderick Little** (U. of Mich.) on Tuesday,
- Survey Research and Its Role in Improving the Health and Lives of the World's Poor, led by **David Fitch** (U. of Guatemala) on Wednesday, and
- Cross-Cultural Issues in Survey Research, led by **Peter Mohler** (ZUMA) on Wednesday.

Don't forget that JSM is a good place for continuing education. Rachel Caspar has organized three exciting short courses given by Partha Lahiri, Roger Tourangeau, and Bruce Spencer with Juha Alho. The details may be found on page 5 in this newsletter.

Let me close by saying that it has been a real pleasure working on the organization of the JSM. Thank you for giving me the opportunity. Thanks to Rachel Harter, last year's chair for showing me the ropes, and thanks to Steven Heeringa for organizing the luncheons and helping with the scheduling. I have made one innovation this year. I have requested all session chairs to provide the laptops and to preload all presentations on those laptops so that we don't lose valuable presentation time to balky projector connections. The program chair's main duties are to judge the proposals for invited sessions, judge the student papers, and organize the regular contributed papers into coherent sessions where the speaker feels at home and the audience can profit from all the papers rather than jumping from session to session. I hope you'll find that there are not too many exceptions to this ideal and that you enjoy the meetings.

## CPS Data on Hurricane Katrina Evacuees by Diane Herz and Jim Borbely

Hurricane Katrina struck the Gulf Coast on August 29, 2005, resulting in immense damage to the city of New Orleans, surrounding parishes in Louisiana, and the Gulf coast of Mississippi. The immediate emergency and the storm's long-lasting devastation presented unprecedented challenges to statistical agencies charged with measuring the economic situation in the affected areas and the nation. The Bureau of Labor Statistics (BLS) was one agency that had to determine how to best collect, estimate, and disseminate statistics in the aftermath of the disaster. This article describes the operational challenges and the efforts made to collect information about the evacuees through the Current Population Survey (CPS). (Information on estimation, which largely followed standard procedures, will be published in the August *Monthly Labor Review*.)

The CPS is a monthly survey of about 60,000 occupied housing units that is used to produce statistics on the labor force, including the national unemployment rate, a major economic indicator. Each month, the Census Bureau conducts the CPS through a combination of Computer Assisted Telephone Interviews and Computer Assisted Personal Interviews. Demographic data are collected about all household respondents and employment status information is collected for those 15 and older.

As a result of Hurricane Katrina, the population of a large area, including a major city, evacuated their homes and were residing elsewhere. News reports and other information indicated that a large number were staying in places outside the scope of the survey, in evacuation shelters, churches, stadiums, hotels, or other nonresidential units.

A BLS/Census Bureau team evaluated the impact of the storm on survey operations and estimation. Meeting several times each day for several weeks after the storm, the group addressed Katrina-related data collection, sampling, estimation, and data dissemination issues.

The storm made landfall well after the August 2005 collection week and several weeks before the September 2005 survey reference period. From an operations standpoint this was nearly the best possible case: August data collection was not interrupted, and there were 3 weeks to evaluate the situation and respond before the next interviewing week.

*(Continued on Next Page)*

The team briefly discussed whether BLS and Census could make special efforts for September data collection (3 weeks after the hurricane) to measure the employment situation of the group of evacuees in out-of-scope quarters. Such an effort was not undertaken because 1) no budget existed for such an operation, 2) it was not clear how to draw a sample that would adequately represent the group of unknown size, location, and demographic composition within the available time and resource constraints, 3) access to evacuees was limited, and 4) evacuees were highly mobile. Efforts focused on maintaining operations in the affected areas in order to produce the most accurate local and national estimates possible and to gather information from evacuees who had moved into units in the CPS sample. In September 2005, interviewer assignments were made in all but two parishes which were under mandatory evacuation. It was not possible, however, to specifically identify which unreachable respondents in the CPS sample had evacuated due to Katrina.

In Louisiana, the parishes around New Orleans were so heavily affected that only 16 interviews were conducted in September compared with 174 in August—a 91 percent decline. By June 2006, the last month for which data were available prior to the publication of this article, 113 interviews were conducted in New Orleans—still off by 36 percent from August 2005. Outside the New Orleans area, household responses in Louisiana were down by about 8 percent immediately after the hurricane; by March 2006, they were near pre-Katrina levels. For the state as a whole, interviews were down by 36 percent just after the hurricane and were still 11 percent below the August level in June 2006.

In Mississippi, the counties most heavily affected by Hurricane Katrina were Hancock, Harrison, and Jackson, which include the cities of Gulfport, Pascagoula, and Biloxi. In those counties, September responses were 41 percent of the August 2005 levels. By June 2006, the number of interviews remained 17 percent below August levels. For the state as a whole, interviews were down 13 percent immediately after the hurricane and remained 10 percent below the August 2005 level in June 2006.

Fortunately, in terms of survey operations, an increasing number of respondents moved back to their pre-Katrina residences over time or relocated to in-scope units, such as the homes of family and friends. Thus the likelihood of finding Katrina evacuees in CPS households increased.

A decision was made to add a limited set of questions targeted to evacuees living in CPS households. These questions enabled the estimation of demographics and employment status of persons who had evacuated from their

August residence due to Katrina, even if only temporarily; in addition, information was gathered to differentiate the employment situation of those who returned to their former address from those who relocated elsewhere.

The “Katrina questions” were administered to all CPS households beginning in October 2005. To identify evacuees, a question was asked for the entire household inquiring whether anyone living or staying there had evacuated, even temporarily, where they were living in August because of Hurricane Katrina. If the answer was “yes,” interviewers later asked respondents which household members had evacuated. Questions were also added to identify the state and county where they were living before the storm, and when they returned to that address. (Katrina questions are available on request at [CPSinfo@bls.gov](mailto:CPSinfo@bls.gov).)

In October 2005, approximately 400 respondents representing 791,000 evacuees were identified using the new questions. The sample was large enough that BLS chose to release the statistics. A section about Hurricane Katrina evacuees was added to the monthly *Employment Situation* report. The original intention was to ask the additional questions for a few months, simply re-asking the questions of all households in the sample from one month to the next. The protracted devastation in the area meant that evacuees’ situations continued to be of great interest, and a decision was made to ask the questions for a longer period. Eventually, it was decided to ask the questions until October 2006.

Over time, increasing numbers of evacuees were identified and larger proportions had returned to their pre-Katrina residences. In October 2005, about 39 percent of the nearly 800,000 evacuees represented in the data were again living at their former addresses. By June 2006, about 62 percent of 1.5 million evacuees had reestablished residency at their former address.

Evacuees who were again residing in their pre-Katrina residences were more likely to be in the labor force than were those who were living elsewhere—61 versus 56 percent, on average, during the October 2005-June 2006 period. Those who had not moved back to their former address were far more likely to be unemployed (26.1 percent) than those who had (6.1 percent).

BLS is continuing to track the employment status of Katrina evacuees. In addition, the agency’s August *Monthly Labor Review* will describe multiple survey programs’ responses to the disaster and will include a visual essay of relevant statistics.

## Executive Committee Reports

Message from Section Chair

**Roger Tourangeau**

As usual, our section is sponsoring a slew of activities as part of the 2006 Joint Statistical Meetings. This year, we are responsible for seven invited paper sessions, 13 topic contributed sessions, and 24 regular contributed sessions. These sessions reflect our diverse interests and many of them are co-sponsored by other sections of the ASA as well. In addition, SRMS is sponsoring roundtable luncheons with six well-known survey researchers (have lunch with Rod Little or John Eltinge in Seattle) as well as three short courses. The short courses are Partha Lahiri's class on *Small Area Estimation*, Bruce Spencer and Juha Alho's *Statistical Demography with Applications*, and my own course on *The Psychology of Survey Response*. Many people have put in a lot of hard work to make this all happen. My special thanks to Dave Judkins, Steve Heeringa, and Rachel Caspar for their work in assembling what promises to be an excellent program for the 2006 JSM.

We will also have our annual SRMS Mixer and Business Meeting on Tuesday, August 8, from 5:00 to 6:30 pm in Room 609 of the Washington State Convention & Trade Center. The last few years, we have held our meeting on Wednesday evening so the Tuesday time slot is a departure from recent tradition. Still, the Mixer remains a great opportunity to nosh, unwind, and rub elbows with your colleagues. We especially encourage students to attend, enjoy the free food, and meet survey researchers from government, industry, and academia. We will discuss the current issues facing SRMS, upcoming conferences, and other issues from the Council of Sections. We are grateful that Marketing Systems Group will again be sponsoring the 2004 SRMS Mixer. At this summer's Mixer/Business Meeting, SRMS will announce its Student Travel Awards. These awards cover part of the travel expenses for students who are attending the JSM for the first time and have an interest in survey research. Students are also able to attend a continuing education course co-sponsored by the section. Thanks to Ginny Lesser for overseeing the selection of the award winners.

Another reason to attend the Mixer and Business Meeting is to get acquainted with the incoming members of the Executive Committee. Let me extend my personal congratulations to Mary Mulry, David Marker, Eric Rancourt, Breda Munoz, Leyla Mohadjer, and Nora Cate Schaeffer, who were elected as SRMS officers for 2007. We appreciate their willingness to run for office and to serve on the Executive Committee. They will join the Executive Committee in January.

Message from the Program Chair-Elect  
**Steve Heeringa**

JSM 2006 is fast approaching and many of us are looking forward to the annual meetings in Seattle. I have had the privilege this past year of working with David Judkins, the 2006 Survey Research Methods Section (SRMS) Program Chair, to plan the Round Table and Contributed Paper sessions. I want to acknowledge David's enormous efforts on behalf of the SRMS program and to thank him for his patient tutoring as I learn the ropes and ease into the role for 2007.

If I may ask you to look ahead to the August 2007 Joint Statistical Meetings in Salt Lake City, Utah there is an important deadline for 2007 SRMS Invited Paper sessions that I would like to call to your attention. The theme of the 2007 JSM is "Statistics: Harnessing the Power of Information". The SRMS section has been allocated five invited paper sessions at these meetings. In addition, we are permitted to submit three additional invited paper session topics for an open competition for 26 unallocated slots. The JSM "invited" program also includes Invited Poster sessions and Introductory Overview Lecture opportunities. Details of these three invited session/presentation types can be found in an article by Allan Rossman, 2007 JSM Program Chair, that appears on page 25 of the June 2006 Amstat News.

If you would like to propose a topic for an SRMS Invited Paper Session at the 2007 JSM, please contact Steve Heeringa by e-mail at [sheering@isr.umich.edu](mailto:sheering@isr.umich.edu) or call him at 734-647-4621 as soon as possible. Organizers whose proposed topic is approved for one of the 5 allocated sessions or the 3 open-competition sessions will be asked to submit their session proposal on-line beginning June 26 at 9:00 am but no later than the final deadline of midnight July 26, 2006. If your topic proposal is approved for submission, Steve will provide the necessary URL and password needed for the on-line registration process.

The 2007 JSM Program Committee will meet at the 2006 JSM for a preliminary review of all the invited paper sessions. The full Program Committee will vote on September 20 to choose the 26 winners for the competition sessions and the complete Invited Paper session program will be finalized in early October 2006.

Best wishes for the summer. I look seeing you at the 2006 JSM in Seattle and I hope to hear from a number of you in the next weeks on your proposed topics for 2007 SRMS Invited Paper sessions.

Treasurer's Report  
**Virginia Lesser**

On June 15, 2006 the SRMS section balance was \$73,115. The Sections largest expenses this past year were contributions for the TSMII and the ICES III conferences. We can expect some other reductions to the balance this year. Awards for the student paper and travel award winners for the 2006 JSM conference will be deducted after JSM. There were nine travel award winners this year. SRMS awards \$400 in travel reimbursement for each awardee and covers expenses to attend a continuing education course sponsored by SRMS. In addition, in 2005 the SRMS Executive Committee agreed to contribute \$1,500 in support of a statistical pilot study investigating human rights violations in Darfur. The project has the Human Rights Data Analysis Group, American Statistical Association and American Bar Association's Central European and Eurasian Law Initiative as interinstitutional partners.

Message from the Continuing Education  
Chair  
**Rachel Caspar**

**Short Courses at JSM**

Look for these three interesting short courses co-sponsored by SRMS in Seattle this year:

- ***Small Area Estimation***, taught by Partha Lahiri. Saturday, August 5<sup>th</sup> from 8:30 to 5:00.
- ***The Psychology of Survey Response***, taught by Roger Tourangeau. Sunday, August 6<sup>th</sup> from 8:30 to 5:00.
- ***Statistical Demography with Applications***, taught by Bruce Spencer and Juha Alho. Monday, August 7<sup>th</sup>, 8:30 to 5:00.

More detail on the content to be covered in each of these courses is available at <http://www.amstat.org/meetings/jsm/2006/onlineprogram>.

There is a significant cost savings if you register on or before July 20<sup>th</sup>. In addition, attendance is limited so be sure to enroll soon to avoid missing out on these informative courses!

Anyone who has suggestions for short course topics or is interested in finding out more about how to submit a proposal to teach a short course at a future JSM Conference should contact Rachel Caspar at [caspar@rti.org](mailto:caspar@rti.org) or (919) 541-6376.

Standing Committee Report: BRFSS  
by **Michael Elliott, Chair**

The Behavioral Risk Factor Surveillance System (BRFSS) is a cooperative survey program between the Behavioral Surveys Branch (BSB) at the Centers for Disease Control and Prevention and each of the 50 states, the District of Columbia, Puerto Rico, the Virgin Islands, and Guam. BRFSS is thus a collection of 54 RDD telephone surveys operated by each of the system partners. In 2005 the BRFSS collected over 300,000 completed interviews.

The Survey Research Methods Section Committee on BRFSS meets annually with BSB staff to discuss survey design issues. These meetings also include a national panel of survey experts biannually. The upcoming meeting between the Committee and BSB will be on November 16-17, 2006 in Atlanta, and will include the survey expert panel as well. Main topics of the meeting will include incorporating cell-phone-only households into the RDD samples, and using mixed-mode/dual frame sample designs (including mail and Web-based data collection modes) for general population surveys, with discussion of attendant sampling, weighting, and estimation issues.

The SRMS committee consists of Donna Brogan (retired from Emory University), Mike Elliott (University of Michigan), Amy Ferketich (Ohio State University), Paul Lavrakas (Nielsen Media Research), Jim Lepkowski (University of Michigan), Cynthia Nelson (Northern Illinois University), and our newest member Michael Larsen (Iowa State University). Mike Elliott will be replacing Jim Lepkowski as the Chair of the Committee this year. Many thanks to Jim Lepkowski for helping to organize the SRMS Committee on the BRFSS, and for providing leadership by example for the Committee's advisory role.

## Section News

### Election Results

*Congratulations to the following SRMS members for winning their elections! We look forward to their taking on leadership roles on the SRMS Executive Committee in the coming year.*

#### **For Chair-elect**

Mary H. Mulry, U.S. Census Bureau

#### **For Program Chair-elect**

David A. Marker, Westat

#### **For Publication Officer**

Eric Rancourt, Statistics Canada

#### **For Treasurer**

Breda Munoz, RTI International

#### **For Education Officer**

Leyla K. Mohadjer, Westat

#### **For Council of Sections Representative**

Nora Cate Schaeffer, University of Wisconsin, Madison

### New ASA Fellows—SRMS Members

Please join us in congratulating the following new ASA fellows:

- Gauri S. Datta, University of Georgia
- Donald Malec, U.S. Bureau of the Census
- Daniel F. McCaffrey, RAND
- Jean Opsomer, Iowa State University
- Virginia A. deWolf, Consultant

## Awards

### Winners of the 2006 Student Travel Awards

#### **Virginia Lesser, Chair, Student Travel Award Committee**

The travel awards are offered to graduate students interested in survey methods research and interested in attending the Joint Statistical Meetings. The section offered travel awards of \$400 and each awardee was also invited to attend a continuing education course sponsored by SRMS in 2006 at no expense.

The application included a recent transcript, a short essay from the student about their interest in survey research

methods, and a letter of support from a current SRMS member. The Student Travel Award Committee, who reviews applications, is composed of the SRMS treasurer, the Continuing Education Officer, the senior Council of Sections Representative, and the Past Chair. This year's Student Travel Award Committee consisted of Rachel Caspar, Sarah Nusser, Steve Cohen, and Virginia Lesser. We thank all students who applied and all faculty advisors who wrote letters of support. The 2006 winners are the following:

Courtney Kies-Bokenkroger, Iowa State University  
Yu Wu, Iowa State University  
Santanu Pramanik, University of Maryland  
Leela Aertker, University of North Carolina - Chapel Hill  
Jessica Kohlschmidt, Ohio State University  
Xiaojian Xu, University of Alberta  
Satkartar Kinney, Duke University  
Chengyong Tang, Iowa State University  
Xiaoxi Li, Iowa State University

Congratulations to the winners! Section members should watch the SRMS website for details about application procedures for 2007.

### Winners of the 2006 Student Paper Competition

by David Judkins

We are pleased to announce the winners for this year's student paper competition. This competition is jointly sponsored by the Section on Government Statistics, Social Statistics Section and Section on Survey Research Methods:

- Hukum Chandra (Southampton) *Small-Area Estimation for Business Surveys*
- Yan Li (JPSM) *Robust Model-Based Predictor of Finite Population Total*
- Joel Hanson (UC Berkeley) *Causal Inference Based on Directed Acyclic Graphical Models and the Randomization Distribution: a Probability-Sampling Approach*
- Huilin Li (U of Maryland) *An Application of Parametric Bootstrap Method in Small-Area Estimation Problem*
- Pushpal Mukhopadhyay (Iowa State U.) *Local Polynomial Regression for Small-Area Estimation*

The winners will present their papers in a topic contributed session scheduled on Sunday, August 6, at 4:00 pm. We encourage you to attend this session to show our support to the winners. Thanks to all students who submitted papers for this year's competition. We encourage all students to submit papers for the 2007 competition.

Waksberg Paper  
**Gordon Brackstone**

The journal *Survey Methodology* has established an annual Invited paper series in honor of Joseph Waksberg to recognize his contributions to survey methodology. Each year a prominent survey statistician is chosen to author a paper that reviews the development and current state of a significant topic that reflects the mixture of theory and practice that characterized the work of Waksberg. Previous winners have been Gad Nathan (2001), Wayne Fuller (2002), Tim Holt (2003), Norman Bradburn (2004), Jon Rao (2005), and Alastair Scott (2006).

The winner of the 2007 Waksberg award is Carl Sarndal formerly of the Université de Montréal, Canada. His paper will appear in the December 2007 edition of *Survey Methodology*.

## Announcements

### Business Meeting

The SRMS Business Meeting will be held in Room 609 of the Washington State Convention & Trade Center on Tuesday, August 8, from 5:00pm to 6:30pm during the Joint Statistical Meetings. Please note that the day of the meeting is Tuesday, not Wednesday as it has been in the past few years. Please join us for food, drink, and conversation. All SRMS members are welcome!

### SRMSNET

To subscribe to SRMSNET, send a message to [listserv@listserv.umd.edu](mailto:listserv@listserv.umd.edu) and in the body of the message, type 'subscribe SRMSNET your name'. Please remember that if you click on 'reply', your answer will go out to everyone on the SRMSNET.

Postings should be sent to: [SRMSNET@listserv.umd.edu](mailto:SRMSNET@listserv.umd.edu)

## Upcoming Conferences

### Third International Conference on Establishment Surveys

June 18-21, 2007  
Montreal, Quebec, Canada

As you think about conferences that you want to attend next year, check out the Third International Conference on Establishment Surveys (ICES III). ICES III will explore the current state of art of establishment surveys. The organizing and program committee has been developing an exciting program. The conference will open with a keynote address by Robert Edwards of the International Monetary Fund and close with a panel discussion entitled: *The Future of Using Administrative Data Sources for Statistical Purposes*. There are twenty-three invited sessions, each with three papers and a formal discussant. There are also eight sessions of introductory overview lectures each with two presentations. Plenty of time has been allocated for open discussion. Follow the URL for details:

<http://www.amstat.org/meetings/ices/2007/index.cfm?fuseaction=invited>.

The program committee is currently developing the contributed and poster sessions which will be posted to the ICES III web site in mid-December:  
(<http://www.amstat.org/meetings/ices/2007/index.cfm>).

In addition there will be two full day and two half day short courses and software demonstrations. All conference participants will be sent a CD-ROM of the presented papers.

Hope to see you in Montreal next June!



## Mission Statement

The mission of the Section on Survey Research Methods is to promote the improvement of survey practice and the understanding of survey methods by encouraging both theoretical and applied research on survey-related topics and by disseminating information on survey methods.

Areas of interest for the Section include all that employ survey methodology as a focus or as a prime tool of investigation. Of special interest are:

- ❖ Theoretical foundations of sampling;
- ❖ Sample design and estimation;
- ❖ Nonsampling errors and data collection methods;
- ❖ Analysis and presentation of survey data;
- ❖ Education of the public and students on the importance of scientific survey research;
- ❖ Publication and dissemination of survey research findings; and
- ❖ Ethics related to survey conduct and standards for survey practice.

American Statistical Association  
1429 Duke Street  
Alexandria, VA 22314-3402  
USA

NON-PROFIT ORG.  
U.S. POSTAGE  
PAID  
ALEXANDRIA, VA  
PERMIT NO. 361

**TIME SENSITIVE INFORMATION**