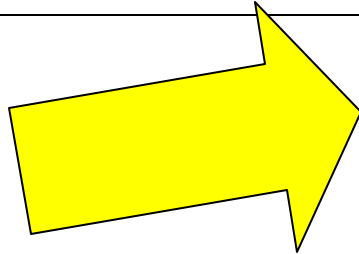


# ASAP Newsletter

The Philadelphia Chapter of the  
American Statistical Association



June, 2005



<http://www.amstatphilly.org/>

Check it out!

## PRESIDENT'S CORNER

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Are you looking for a new and exciting summer activity? Well look no further - ASAP is pleased to announce our one-day **summer short course** session for 2005! This year we are privileged to have Timothy E. O'Brien, Ph.D., of Loyola University, Chicago, teach "Applied Nonlinear Statistical Methods". We are proud to bring this course to our local area. The short-course will be held Friday, July 29, 2005 at the Villanova Conference center and will cost \$75 (Students are \$25). Please be sure to register early, as seating is limited. See pages 2-5 for more details. Many thanks to our ASAP Vice-President, Lisa Hickey, for all her efforts in organizing this event!

A big thank-you to all ASAP members who spent time judging at the **Delaware Valley Science Fair**. Our judges reviewed over 900 posters and chose three student winners who received a certificate of achievement, a monetary award, and JMP IN Statistical Software Academic package. Many thanks to Paul Johansen (our own ASAP Newsletter Editor) who, along with me, presented the awards, and secured the Statistical Software for the winners.

It's now time to **elect ASAP Chapter officers** for the 2005-2006 term. Please see pages 5-6 for biosketches of the candidates and voting instructions. I have really enjoyed serving our chapter, as Vice-President and President, over the last two years. Especially enjoyable for me has been the opportunity to work with my highly motivated and enthusiastic Executive Committee officer colleagues – many thanks for their terrific contributions to our chapter. In addition to our elected officers, we have established a new opportunity of "Educational Outreach" which will be an appointed position. Look for details about this new and exciting chapter effort in future newsletters and at our upcoming meetings.

We are always eager to hear from our chapter members. If you have **recommendations of speakers** for future meetings, or **ideas for other chapter activities**, please feel free to contact any chapter officer. If you are not a member of our local ASAP chapter, please consider joining us! We will have registration information and materials available at the summer short course. Hope to see you there!

~ Diane Miller

## CALENDAR OF EVENTS

Friday, July 22	<i>Registration deadline for ASAP Summer Short Course</i>
<b>Friday, July 29</b>	<b>ASAP Summer Short Course, Villanova Conference Center</b>
Sun-Thurs, August 7-11	JSM (Minneapolis): “Using Our Discipline to Enhance Human Welfare”
Friday, October 21	13 <sup>th</sup> Merck-Temple Conference, Plymouth Meeting DoubleTree Hotel

### ASAP SUMMER SHORT COURSE Tim O’Brien: “Applied Nonlinear Statistical Methods” RSVP by **Friday, July 22**

<b>DATE:</b>	<b>Friday, July 29, 2005, 8:00am – 5:00pm</b>	
<b>LOCATION:</b>	Villanova Conference Center, 601 County Line Road in Radnor, PA (610-523-1776)	
<b>LUNCH DETAILS:</b> Buffet: soups, salad bar, antipasti, pre-made sandwiches, grill station (burgers, fries, onion rings, etc.), “action station” (chef preparing dish to order), dessert buffet	<b>TIME</b>	<b>PROGRAM</b>
	8:00 – 8:45	<i>Registration (with breakfast)</i>
	8:45 – 9:00	<b>Introduction and election results</b> – Diane Miller, ASAP President
	9:00 – 10:30	<b>Session I:</b> Review & Introduction
	10:30 – 10:45	<i>Networking Break (with refreshments)</i>
	10:45 – 12:30	<b>Session II:</b> Diagnostics
	12:30 – 1:30	<i>Buffet Lunch</i>
	1:30 – 3:00	<b>Session III:</b> Generalized non-linear models & Experimental design
3:00 – 3:15	<i>Networking Break (with refreshments)</i>	
3:15 – 5:00	<b>Session IV:</b> Extensions	
<b>Cost:</b> \$75 including lunch; \$25 for full-time students.		

**Directions** (see also [www.villanovaconfctr.com](http://www.villanovaconfctr.com)): *From the south:* Follow Rt. 476 North to Exit 13 (St. David’s/Villanova.) At the bottom of the exit ramp, proceed straight at the traffic light onto King of Prussia Road.

*From the north:* Take 476 South to Exit 13 (St. David’s/ Villanova). At the bottom of the exit ramp, turn right onto Rt. 30 East (Lancaster Avenue.) At the 1st traffic light turn left onto King of Prussia Road.

*From King of Prussia Road:* Follow King of Prussia Road to the 2nd traffic light turn right onto Matsonford Road. Follow Matsonford Road approximately half a mile and turn right into the Matsonford Gate entrance to The Villanova Conference Center. (marked by blue signs on the stone gates.)

**Registration:** PLEASE REGISTER AND PAY IN ADVANCE by **Friday, July 22** to assist with the head-count. Contact ASAP Treasurer Paul Lupinacci at [paul.lupinacci@villanova.edu](mailto:paul.lupinacci@villanova.edu) / (610) 519-7435, **specifying if you are a student, if you are an ASA and/or ASAP member, and your company/institution.** Checks should be made payable to “ASAP” and sent to Paul Lupinacci / Department of Mathematical Sciences / Villanova University / 800 Lancaster Avenue / Villanova, PA 19085.

*Abstract: "Applied Nonlinear Statistical Methods"*

Researchers often recognize that nonlinear regression models are more applicable for modeling their physical and medical processes than are linear ones for several important reasons. Nonlinear models usually fit their data well and often in a more parsimonious manner (typically with far fewer model parameters). Also, nonlinear models and the corresponding model parameters are usually more scientifically meaningful. But selecting an efficient experimental design; choosing, fitting and interpreting an appropriate nonlinear model; and deriving and interpreting confidence intervals for key model parameters can present practitioners with fundamental and important challenges.

This course first reviews the essentials of linear regression, and subsequently introduces and illustrates generalized linear models (such as logistic regression), Gaussian nonlinear models, and generalized nonlinear models, focusing on applications. Illustrations are given from the domains of bioassay, relative potency and drug or similar compound synergy useful in biomedical and environmental sciences. Caveats are discussed regarding convergence, diagnostics, and the inadequacy of standard (Wald) confidence intervals – which are the intervals provided by most software packages. Extensions to bivariate situations (such as those focusing on both efficacy and safety of drugs) and censored (survival) analysis are also provided, as are implications for experimental design. Implementation using the SAS<sup>®</sup> statistical software package will be discussed, but references will be made to other packages as well.

*Course Outline*

- I. Brief review of simple and multiple linear regression; two-sample t-tests, ANOVA, ANOCOV (analysis of covariance); diagnostics and model checking; logistic regression.
- II. Introduction to Gaussian nonlinear models; practical concerns (choosing a model, starting values); nonlinear contrasted with linear models and with generalized linear models; applications (substance dissolution and enzyme kinetics); confidence regions, intervals, and the impact of curvature (nonlinearity, asymmetry).
- III. Diagnostics and model checking; examples involving ELISA's (and other assays) and pharmacokinetics; extensions of classical methods including modeling variance functions and correlated responses; brief discussion of mixed and hierarchical nonlinear models.
- IV. Generalized nonlinear models and applications in bioassay, relative potency, and drug/similar compound synergy modeling; usefulness and limitations of the IML and NLMixed SAS<sup>®</sup> procedures.
- V. Experimental design strategies including benefits and limitations of optimal designs; robust 'optimal' design strategies; geometric designs.
- VI. Extensions to bivariate Gaussian and binomial responses and to censored data in the context of the detection of drug/similar compound synergy.

### *Biosketch*

**Timothy E. O'Brien, PhD** is a tenured associate professor with the graduate faculty in the Department of Mathematics and Statistics, Loyola University of Chicago. Dr. O'Brien received his Ph.D. in Statistics from North Carolina State University in 1993. His dissertation topic, "New Design Strategies for Parameter Estimation and Model Discrimination in Nonlinear Regression Models" focuses on optimal experimental design, generalized linear and nonlinear modeling, and computer-intensive methods, with applications to drug synergy research. Dr. O'Brien also received an M.A. in Statistics from the University of Rochester (1987), an M.A. in Mathematics from Syracuse University (1985), and a B.A. in Mathematics and Economics from Pace University (1978). He is a member of ASA, ENAR, IASC, IASE, and ISI.

Dr. O'Brien has made several contributions to the theory and methods of optimal experimental design, particularly regarding nonlinear modeling. Some of his publications appear (or will appear) in *Biometrika*, *Statistica Sinica*, *Journal of Statistical Planning and Inference*, *The American Statistician*, *Journal of Agricultural, Biological, and Environmental Statistics*, the *Journal of Chemical Ecology*, *Computational Statistics and Data Analysis*, and the *Journal of Data Science*. Dr. O'Brien also published three book chapters on optimal design, robust design, and lack of fit, for nonlinear regression models, as well as several refereed conference proceedings (e.g., *Proceedings of the 15<sup>th</sup> Conference on Applied Statistics in Agriculture, Proceedings of Agro-Industrie et Methodes Statistiques*) and collaborative papers in refereed biomedical journals (e.g., *Development*, *Annals of Neurology*, *Cell and Tissue Research*), which illustrate the immediate application of his theoretical work. Dr. O'Brien has served numerous times as a referee for top-tier statistical journals, and he is frequently invited to both domestic and international conferences and universities to speak on his theoretical developments and their applications to pharmacology and pharmacokinetics. Dr. O'Brien won a SUGI Best Contributed Paper Award for demonstrating how some of his methodological work on optimal designs for nonlinear regression models can be implemented using SAS®

Dr. O'Brien's previous industrial and academic work experience contributed greatly to both the direction and applications targeted for his current research activities. For example, Dr. O'Brien spent two years as a biostatistical consultant at Janssen Pharmaceutics NV, two years as an internal statistical consultant and biostatistician at Novartis Pharma AG, and three years as an assistant statistician at Glaxo. In addition, Dr. O'Brien also provided statistical consulting services to SmithKline, Bristol Myers Squibb, Chiron, and Amgen. Dr. O'Brien's previous domestic academic experience includes Assistant Professor positions at Loyola University of Chicago, the University of Georgia, and Washington State University. Internationally, Dr. O'Brien has been a Visiting Professor at both Limburgs Universitair Centrum (Belgium) and Katholieke Universiteit Leuven (Belgium), a Visiting Lecturer at the University of Natal at Pietermaritzburg (South Africa), and he was awarded two postdoctoral fellowships, one at the Universität Augsburg (Germany) and the other at INRA, Laboratoire de Biometrie (France).

Dr. O'Brien has a strong interest in and commitment to statistical and mathematical education. He has developed and taught a wide range of theoretical and applied statistics, statistical computing, statistical programming, statistical consulting, and mathematics courses, at both the graduate and undergraduate levels, at both domestic and universities abroad. In addition, Dr. O'Brien has taken the time to supervise more than a dozen directed reading courses with graduate students in nonlinear mixed modeling, generalized linear models, nonlinear regression, differential geometry, optimal design, multivariate statistics, survival analysis, advanced statistical inference, and drug synergy, some of which led to the students' dissertation research. Dr. O'Brien has been invited to conferences on teaching statistics and also to universities to share his ideas on successful teaching, and he has recently written an invited book chapter on "Innovative Methods in Undergraduate Courses Following Calculus" which is to appear in the *MAA Notes* series. Perhaps the clearest demonstration of Dr. O'Brien's commitment to education was his two-year tour with the Peace Corps in French West Africa where he taught several mathematics courses preparing lycée students for the French Baccalaureate exam and entrance into university.

## ELECTIONS FOR ASAP 2005-2006 OFFICERS

The Executive Committee of the American Statistical Association, Philadelphia Chapter (ASAP) consists of four elected positions: President; Vice-President; Secretary; and Treasurer. The term for these positions runs from July 1, 2005 through June 30, 2006. The primary responsibilities of the elected officers include organizing the fall and spring chapter meetings, as well as the summer short course. Elected officers may also appoint other executive positions, such as Chapter Representative, Webmaster, Outreach Officer, and/or Newsletter Editor. Additional activities may be initiated as creativity, interest, and time permit.

Biosketches of all candidates follow on the next page. Accompanying this newsletter you will find a ballot with detailed instructions. Ballots can also be found online at [www.AmstatPhilly.org](http://www.AmstatPhilly.org). Ballots must be filled out and returned as instructed on the ballot by **Friday, July 22**. Two people will serve on this year's Elections Committee: **Diane Miller** (immediate past ASAP President) and **Debbie Panebianco** (ASAP Webmaster). Results will be announced on **Friday, July 29** at the ASAP Summer Short Course and by email. Thank you in advance for your participation in this important chapter activity!

### **Candidate for PRESIDENT:**

**Lisa Hickey** served as Vice President of ASAP this year, after two years as Secretary. She is a Senior Statistician at *Merck Research Labs*, where she works in the Clinical Pharmacology area. She also teaches introductory statistics part-time at *Villanova University*. Lisa was previously employed at ProMetrics Consulting, Inc. as an Analyst. She received an M.S. in Applied Statistics at Villanova University and a B.S. in Mathematics at the University of Kentucky.

### **Candidates for VICE PRESIDENT:**

**Paul Johansen** has served ASAP as Newsletter Editor for three years, and has published chapter activities in AmStat News twice. He helped develop an ongoing relationship with the Delaware Valley Science Fairs ([www.dvsf.org](http://www.dvsf.org)), and helped re-establish the chapter's Mid-Winter Gatherings. Paul is a Biostatistician doing Phase I AIDS drug clinical trials for **Tibotec**, and has previously worked at **Merck** and at **Genzyme**. He received an M.A. in Biostatistics from Boston University School of Public Health in 1998, a B.A. in Biology from Yale in 1988 and attended UMASS Medical School from 1989-1992.

**Liwen Xi** has served ASAP this year by presenting "*The Distribution of Half-Life of a Drug and Its Median*" at the spring meeting and by judging DVSF posters. Since joining **Merck & Co.** in 1996 she has worked in the Vaccine and Clinical Pharmacology groups, working in Phase I-III studies. Liwen received her Ph.D. in 1996 and MS. in 1993 from the Statistics Department at the Pennsylvania State University. She also holds an M.S. in Operations Research from the University of Montana and a B.S. in Mathematics from Fudan University in Shanghai, China.

### **Candidate for TREASURER:**

**Paul Lupinacci** served as Treasurer of ASAP this year. He is currently an Assistant Professor in the Department of Mathematical Sciences at **Villanova** University, where he has worked for 5 years. His research interests include the Design of Experiments and Nonparametric Statistics. Paul is also a part-time consultant to the Biostatistics Section of the Division of Clinical Pharmacology at **Thomas Jefferson University**. He received a Ph.D. in Statistics from Temple University in 2001.

### **Candidates for SECRETARY:**

**Bob Gagnon** served as Secretary of ASAP this year. He is an Associate Director in the Statistical Sciences department at **GlaxoSmithKline**. He has worked as a non-clinical statistician for 17 years, and as an epidemiologist for 1 year, all at GSK. Prior to working as a statistician, he worked for 6 years as a bench scientist. He received an M.S. in Applied Statistics from Villanova University in 1989 and completed his Ph.D. at Temple University in 2003.

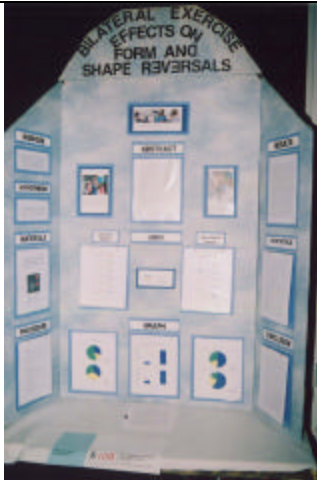
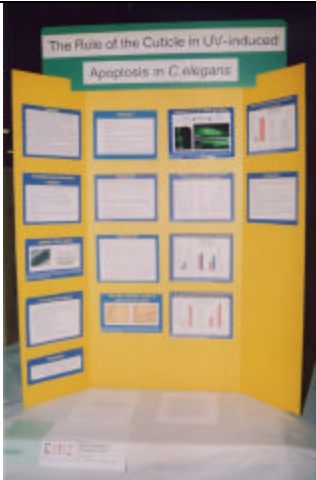

**Xiaohua (Douglas) Zhang** has served the ASA Biopharmaceutical Section (ASA Biopharm) for three years by organizing and chairing JSM invited and contributed paper sessions and roundtable luncheons, and by judging the Student Paper Competition. He is a Senior Biometrician at **Merck**, focusing on new biotechnologies such as high-throughput screening and microarrays. Douglas received his Ph.D. in Statistics from Carnegie-Mellon University in 2002, an M.S. in Genetics and a B.S. in Biology from Beijing Normal University, and was a Ph.D. candidate in Genetics in Texas A & M University in 1998.

## DELAWARE VALLEY SCIENCE FAIRS

For the third year in a row ASAP awarded three prizes to promising students at the Delaware Valley Science Fairs ([www.dvsf.org](http://www.dvsf.org)), one each in the 6<sup>th</sup>-8<sup>th</sup>, 9<sup>th</sup>-10<sup>th</sup>, and 11<sup>th</sup>-12<sup>th</sup> grades. The winning students each received \$250 cash (up from \$100 previously), a copy of JMP IN software – generously donated by SAS – and a certificate. In addition, their schools received JMP IN software and a certificate. Thanks to the nine judges who donated their day to review hundreds of posters and interview students about their projects: **Al Getson, Cindy Gargano, Monika Ciesielska, Bob Gagnon, Susan Li, Debbie Panebianco, Liwen Xi, Mark Bailey and Paul Johansen.**

Competition was again fierce, and we were pleased to see increased use and awareness of statistical methods, even in the youngest age categories (which relied heavily on pre-packaged Excel options). This year’s winners were **Ellen Pitman** for her Behavioral/Social science project, *“The Effects of Bilateral Exercise on Form and Shape Reversals”*; **Eric Prouty** for his Zoology project, *“The Role of Lipid Metabolism in UV-induced Cell Death in the Nematode, C. elegans”*; and **Carlyn Evans** for her Zoology project, *“Mr. Night Crawler, Can You Hear Me Holler?”*

The judges ended the day with a lively, productive discussion about how to actively increase statistical awareness and education, and to improve the quality of statistical analysis in future science fairs. Anybody interested in helping with such educational outreach should contact **Cindy Gargano** ([cynthia\\_gargano@merck.com](mailto:cynthia_gargano@merck.com), 484-344-3547), or speak with any of the ASAP officers listed on page 12.

		
<p style="text-align: center;">Ellen Pitman (12<sup>th</sup> grade) Central Bucks High School West Doylestown, PA</p>	<p style="text-align: center;">Eric Prouty (10<sup>th</sup> grade) Central Bucks High School West Doylestown, PA</p>	<p style="text-align: center;">Carlyn Evans (6<sup>th</sup> grade) Downingtown Middle School Downingtown, PA</p>



ASAP President **Diane Miller** awards this year's DVSF winners: **Ellen Pitman** (12<sup>th</sup> grade), **Eric Prouty** (10<sup>th</sup> grade), and **Carlyn Evans** (6<sup>th</sup> grade)

## 2005 PENNSYLVANIA STATISTICS POSTER COMPETITION

Once again, ASAP donated \$300 to the 2005 Pennsylvania Statistics Poster Competition, organized by **Tom Short** at Indiana University of Pennsylvania. This money supported administrative expenses, including award ribbons and a "thank you" lunch for judges. The competition continues to expand: this year they received a record number of submissions: 740 posters from K-12 students across Pennsylvania, approximately 5% of whom won an award. First through fourth place awards were given in the K-3<sup>rd</sup>, 4<sup>th</sup>-6<sup>th</sup>, 7<sup>th</sup>-9<sup>th</sup>, and 10<sup>th</sup>-12<sup>th</sup> grade categories, with 47 honorable mentions in each age group. Names and poster topics of all winners can be found at <http://www.math.iup.edu/paposters/2005/>. These students also competed successfully at ASA's American Statistics Poster competition: a student from Pennsylvania won either 1<sup>st</sup> or 2<sup>nd</sup> place (or both!) in every age category. If you have any questions about the Pennsylvania Statistics Poster Competition, or would like to help with the judging next year, please contact **Tom Short** ([tshort@iup.edu](mailto:tshort@iup.edu), 724-357-4060, [www.math.iup.edu/~tshort](http://www.math.iup.edu/~tshort)).

## NEW INTERDISCIPLINARY PROGRAM IN STATISTICAL SCIENCE AT THE UNIVERSITY OF THE SCIENCES IN PHILADELPHIA

The University of the Sciences in Philadelphia is developing an interdisciplinary program in Statistical Science. This will be a 5-year program designed to give students both a bachelor's and master's degree with training in Applied Statistics. The University is now looking for a diverse collection of local statisticians willing to evaluate the proposed curriculum and to make suggestions for its improvement and viability. For more information about this endeavor, please contact **R. Mac Turner, Ph.D.** / Professor and Chair of Psychology and Statistical Science / University of the Sciences / 600 S. 43<sup>rd</sup> Street / Philadelphia, PA 19104 / 215-895-1136 / [R.Turner@usip.edu](mailto:R.Turner@usip.edu).

## EMPLOYMENT

The Philadelphia Chapter of the ASA has over 300 members in a variety of specialties covering academics, industry, and government. We can include your employment advertisement(s) (*maximum 100 words*) in our newsletters for the nominal fee of \$25 per ad. We issue newsletters in September, February, and May. You are encouraged to include the title and a brief description of the position, your contact information, and a link to a web site with additional information. Please send a check -- payable to "ASAP" -- to our Treasurer, and email your text to the Newsletter Editor (see page 12).

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For any of the following 4 employment opportunities, contact **Torey Vizzo** / Managing Director, Biostatistics / The Cambridge Group Ltd / 1175 Post Road East / Westport, CT 06880 / (800) 525-3396 ext. 248 / Fax: (203) 226 - 3856 / [biostat@cambridgegroup.com](mailto:biostat@cambridgegroup.com) / [www.cambridgegroup.com/pharmaceuticals](http://www.cambridgegroup.com/pharmaceuticals)

### **Senior Principal Biostatistician, PA**

The Candidate will take a lead role in cross project tasks (staff training, process improvement initiatives, development of working procedures, and various Clinical Operations designed to improve efficiency and productivity). Responsibilities will include adherence to project target dates with respect to clinical development plans, clinical analysis plans, protocol development, statistical analysis plans, and report preparation for assigned projects. Maintain project documentation. Develop validated project specific software and provide peer review of project related work. Experience in the Neuroscience therapeutic area is preferred; A MS with 8 years or PhD with 6 years experience is necessary.

### **Associate Director, Biomarkers / Pharmacogenomics, NJ**

Lead the team to provide statistical expertise in clinical trials for Investigative Medicine, Pharmacogenomics and other studies discovering and developing biomarkers from Pharmacogenomics, Proteomics, Metabonomics and Systems Biology in Clinical Discovery. Collaborate in the form of study design, statistical analysis and data mining, clinical report writing, publication, and developing in-house analysis tools and methods. Lead statistical collaboration with a therapeutic biomarker team to support Early Development, Full Development & Life Cycle Management teams on developing biomarkers and designing/analyzing Pharmacogenomic trials in enriched population. A PhD in Biostatistics/Biology/Genetics with 5 years experience is necessary.

### **Senior Biostatistician, NY**

The candidate will be responsible for the overall statistical support for one or more clinical projects. Coordinate the data analysis activities of other staff members. Contribute working on data analysis and reporting for other projects. Demonstrate a strong ability in developing new statistical methodologies and

active participation in protocol development. Individuals can be the departmental representative on Clinical Project Teams. Requirements: thorough knowledge of theory and techniques of applied statistical methods (Experimental Designs, ANOVA, Linear Models, non-parametric, regression, correlation analysis, categorical data analysis, survival analysis), programming skills in SAS, a PhD with 3 years of pharmaceutical experience.

### **Senior Biostatistician, CA**

This position ensures all statistical aspects of documentation and statistical strategy pertaining to non-registrational activities. Lead and project-manage all statistical support according to agreed resource and timeline plans and develop and maintain standardized approaches and methodology. Participate in the finalization of protocol deviations and analysis sets. Create statistical analysis plans. Plan and execute statistical review and QC of CSRs, clinical publications, etc. Oversee the work of outsourcing partners and vendors at the product level. Create Requests for Proposals from outsourcing vendors for statistical services. A MS with 6 years or a PhD with 4 years experience is required.

\* \* \* \* \*

## **HISTORY OF ASA AND ASAP (by Past ASA President Robert Mason)**

On November 27, 1839, five men held a meeting at the Rooms of the American Education Society at No. 15 Cornhill in Boston, Mass., to organize a statistical society. Its purpose, as stated in its first constitution, was to "collect, preserve, and diffuse statistical information in the different departments of human knowledge." Originally called the American Statistical Society, the organization's name was changed to the American Statistical Association at its first annual meeting, held in Boston on February 5, 1840.

As stated in its current constitution, the Association's objectives are "to foster statistics and its applications, to promote unity and effectiveness of effort among all concerned with statistical problems, and to increase the contribution of statistics to human welfare. The [ASA] is a nonprofit organization and achieves these objectives by conducting meetings, producing publications devoted to statistical methodology and its applications, and making available information concerning the science of statistics and its contributions. It also cooperates with other organizations in the advancement of statistics, stimulates research, promotes high professional standards and integrity in the application of statistics, fosters education in statistics, and, in general, makes statistics of service to society."

A first attempt to organize a Philadelphia chapter was made at a meeting in 1917, but it would be another 16 years before the ASA officially chartered our chapter. In 1933 the Philadelphia and Connecticut chapters were born, becoming the 10<sup>th</sup> and 11<sup>th</sup> official chapters of ASA. ASAP was reorganized in 1970, and now boasts nearly 350 members spanning industry, academia, government and other related areas.

With more than 17,000 current members, ASA is the largest professional statistical association in the world. There are now 21 subject-area sections and 78 affiliated geographic chapters, reflecting the growing interests of the Association and illustrating the areas of new developments in statistical techniques. For more detailed information on the history of ASA, please go to [www.amstat.org/about/index.cfm?fuseaction=history](http://www.amstat.org/about/index.cfm?fuseaction=history).

## HUMOR OF THE MONTH

A consulting statistician and his client sat down together for the first time.

Client: "I desperately need your help interpreting the significant three-way interaction in this factorial ANOVA. What are your fees?"

Statistician: "One hundred dollars for three questions."

Client: "Isn't that a little steep?"

Statistician: "Not really. Now what's your third question?"

Proof that all odd numbers are prime:

Mathematician: 3 is prime, 5 is prime, 7 is prime, the rest follows by induction.

Statistician: 3 is prime, 5 is prime, 7 is prime, 9 is experimental error so throw it out, 11 is prime, 13 is prime, the rest follows by induction.

Computer Scientist: 3 is prime, 5 is prime, 7 is prime, 9 is prime....

## TREASURER'S REPORT

<b>BALANCE FORWARDED (2/1/05):</b>	<b>\$6,913.30</b>
<b>INCOME:</b>	
ASA Chapter Dues	
December, 04	\$241.00
January, 05	\$129.00
February, 05	\$211.00
March, 05	\$259.00
April, 05	\$234.00
<i>Subtotal:</i>	\$1,074.00
Other Revenue Sources	
Spring 05 Meeting Registration Fees	\$100.00
Spring 05 Newsletter Ads	\$675.00
ASA Membership Recruitment Program	\$100.00
<i>Subtotal:</i>	\$875.00
<b>TOTAL INCOME:</b>	<b>\$1,949.00</b>
<b>EXPENSES:</b>	
Spring 05 Meeting	
Facility, Meals	\$664.82
Speaker Expenses	\$316.42
<i>Subtotal:</i>	\$981.24
Other Expenses	
ASAP Web Site Fee	\$218.95
2005 PA Statistics Poster Competition	\$300.00
Delaware Valley Science Fair Prizes	\$750.00
Delaware Valley Science Fair Supplies	\$118.56
<i>Subtotal:</i>	\$1,387.51
<b>TOTAL EXPENSES:</b>	<b>\$2,368.75</b>
<b>BALANCE FORWARDED (6/1/05):</b>	<b>\$6,493.55</b>

**2004 - 2005 ASAP CHAPTER OFFICERS  
(July 1, 2004 – June 30, 2005)**

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