



# Newsletter

of the

## Harrisburg Chapter

of the

### *American Statistical Association*

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## Enjoy the Summer !

May concludes the year for the activities of the Harrisburg Chapter of the ASA. In July Sandra will take over as Chapter president and the Chapter will resume activities in September. We have no new President Elect. For the fall. Anyone who would like to volunteer can contact any chapter officer or member of the Executive Committee.

### SCIENCE FAIRS

The winners of the Harrisburg Chapter of the ASA *Best Application of Statistical Methods* awards at the 2003 regional science fairs:

#### **York County Science and Engineering Fair March 14, 2003.**

##### **Junior Division**

Winner (\$100 US Savings Bond): Daniel Brein, York Suburban Middle School, "What are the effects of seed variety and soil type in drought tolerance of grass?" (t-test inference)

Honorable Mention: Stephen Hildebrand, York Suburban Middle School, "Which is a more effective chemical fertilizer?" (evaluation of mean differences using standard error)

##### **Senior Division**

Winner (\$100 US Savings Bond): Jeff Roward, Dallastown High School, "The effects of temperature and humidity on sound intensity" (interpretation of regression graphs)

Honorable Mention: Arthur Petron, Dallastown High School, "The implementation of electrohydrodynamic principles on a wind turbine" (evaluation of mean differences with standard deviation)

Honorable Mention:

Heather Rishel, South Western High School, "Does an increase in the temperature and mass of chemicals used to make rubber balls change the height the balls bounce?" (evaluation of mean differences with standard deviation and confidence intervals)

#### **Capital Area Science and Engineering Fair March 21, 2003**

##### **Junior Division**

Winner (\$100 US Savings Bond):

Isaac L. Johnson, Fairfield Middle School, "First Run Differences" ( binomial confidence intervals)

Honorable Mention: Rivkah Blutstein, Yeshiva Academy, "On the Other Hand" (group comparisons with box plots and mean error)

Honorable Mention: Melissa McCaleb, Good Hope Middle School, "Reactions to Color" (application of ANOVA)

**Senior Division**

Winner (\$100 US Savings Bond): Becky Fowler, Carlisle High School, "Tennis ball cannons" (evaluation of differences with dot plots, box plots, and ANOVA with multiple comparisons)

Honorable Mention: Carl Comasco, Jr., Bishop McDevitt High School, "Boundary Layer Suction" (group comparisons with ANOVA)

Honorable Mention: Rosa Nguyen, Bishop McDevitt High School, "The cumulative effect of ampicillin and UV light" (group comparisons using box plots)

Honorable Mention: Mariasol Palacios, Bishop McDevitt High School, "Bacteria overpower oil" (group comparisons with ANOVA, and regression)

**Last Month Spring Meeting at the Market Cross Pub in Carlisle.**

Vernon Chinchilli, Ph. D. gave a presentation on some unusual research designs that he has employed in studies for the Asthma Clinical Research Network. Dr. Chinchilli identified the unusual aspects of the research designs and explained their practical implications.

The Chapter honored Kelly Richwine who is leaving the offices of the Penn State Harrisburg Department of Science, Eng. & Technology where, beyond her other responsibilities, she employed her administrative talents in organizing lectures, short courses and conferences sponsored by the Harrisburg Chapter of the ASA. We wish her all the best in her promotion. The chapter will greatly miss the organizational skills.

***Executive Committee***

- Sandra Kingan - President
- vacant - President-elect
- Jim Lehman - Secretary
- Haddon Carryer - Treasurer
- Winston Richards - Council of Chapters ASA
- Vacant - State Statistics Ch.
- Robert Dewar - Past President
- Lori Koontz - Past President
- Delray Schultz - Past President
- John Rinehart - Past President
- YOU - if you are willing to help

**Membership Application**

Name \_\_\_\_\_

*(Check where your newsletter should be sent.)*

Home Address \_\_\_\_\_

Business Address \_\_\_\_\_

E-MAIL ..... \_\_\_\_\_  
*( e-mail address for newsletter)*

**If you have e-mail but don't want your newsletter e-mailed fill in the address below. *(E-mailing the newsletter saves the chapter money and time.)***

E-MAIL ..... \_\_\_\_\_  
*( e-mail address for messages)*

**Business Address**

Business \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

**Home Address**

\_\_\_\_\_

Phone \_\_\_\_\_

**Member, National ASA YES/NO**

**Would you like information on National ASA Membership?**

**Dues for annual membership in the Harrisburg Chapter of the ASA are \$10. Checks payable to: ASA-Harrisburg Chapter**

**Return application to:**

**Haddon Carryer, Treasurer**

**ASA-Harrisburg Chapter**

**268 South West Street**

**Carlisle, PA 17013**