



# newsletter

VOLUME 22

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## From Your President

HANK CLASSEN  
PSA President



The PSA Board of Directors has been quite active this fall and early winter. Last year, **Hank Engster** established monthly conference calls for the Board after the midyear meeting, in January. Although a conference call can't take the place of a face-to-face meeting it is a cost-effective way to communicate and conduct business in a timely manner. I have continued these calls since our annual meeting in Atlanta and they have served a useful function. The Business Office has also assisted in Board communication by establishing an electronic Board discussion group. Again, this helps with communication and discussion of important issues. Some of the matters that have been on the Board agenda since the annual meeting are:

### The 1998 annual meeting

Chair, **Bill Huff**, has been working very hard on planning for next year's annual meeting and I believe that we are going to have a very interesting and informative meeting. The *Ad Hoc* Ancillary

Scientist Committee, chaired by **Jim Pettite**, has developed a preconference symposium on Muscle Growth and Development. This symposium is being chaired by **Sandra Velleman** and **Regina Vasilatos-Younken** and promises to be a comprehensive look at an important topic. In addition to the regular extension meeting and informal nutrition workshop, three symposia are planned for the annual meeting itself. These include futuristic looks at extension and reproductive management of modern strains of poultry, as well as a timely symposium on an area of increasing concern, poultry production and the environment. Please watch for more details. The local host committee at Penn State, under the direction of **Bill Weaver**, is also working very hard to make the 1998 annual meeting a memorable one for us all.

### New guidelines and timetable for developing symposia

The Board approved new guidelines and a timetable for developing Symposia for annual meetings. The guidelines were published in the October newsletter and the "Author Instructions" found in the January edition of *Poultry Science*. Although ideas for symposia frequently come from association committees, or from the Board, input from other members is always welcome.

(continued pg 2)

NEWSLETTER  
Glenn H. Carpenter, Editor  
Vol. 22, No. 1 January 1998

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PSA Newsletter  
1111 N. Dunlap Avenue  
Savoy, IL 61874

### Electronic submission of abstracts

The Board approved the electronic submission of abstracts for the 1998 annual meeting. The primary motivation for using this technology is to make the abstracts available on the PSA web site and to produce a standardized, quality print output in the Abstract Supplement. Abstracts can still be submitted on paper but there will be a \$15.00 charge to cover the cost of typesetting and coding paper submissions in the Business Office.

### FASFAS Dissolution

The Board of Directors voted unanimously to support the dissolution of FASFAS effective January 1, 1998 and that all remaining assets be transferred in total to the new FASS organization. This represents a part of the ongoing process of establishing FASS.

The January 1998 edition of the *PSA Newsletter* represents a first for our new Newsletter editor, **Glenn Carpenter**. We are thankful that Glenn agreed to take on this responsibility and look forward to working with him. It is also a pleasure to acknowledge the hard work and dedication of our retiring newsletter editor, **Lou Arrington**. Lou added his own personal touch to a very professional newsletter. Unfortunately for Lou but fortunately for us, he will not have much

## From Your Newsletter Editor

GLENN H. CARPENTER  
PSA Newsletter Editor

**H**ello. This is my first Poultry Science Association Newsletter. **Lou Arrington** did such a fine job of introducing me in the last newsletter, that there is not much that I can say about myself that you probably do not already know. If there is anything that you want to know, ask! I hope that I can continue to do as fine a job as the members of the Poultry Science Association have come to expect. This may be a difficult, if not impossible, task. During the last 6 years, this newsletter has become a tremendous asset to the organization. Lou (with the help of **Ann Mester** and **Janet Brown** at the PSA office) has increased the size and importance of the newsletter, and made the newsletter a very professional publication.

Because I am new at this, I need to ask for the support and assistance of each member of the organization. Please, do not be upset if the newsletter might be a little later than it should be. Please, send me the information that you would like included, promptly, and before deadlines. If someone has accomplished something of particular note, please let me know so that I can include it in the newsletter. If **you** accomplish something of particular note, please let me know so that I can include it in the newsletter. Because I don't like to type, if the information can be sent by e-mail, attached as a Word Perfect (or Text) file, I will **greatly** appreciate it. And last, please forgive my sometimes meager attempts at humor, such as an occasional bad joke (Q: *What did the chicken wear when it crossed the road??*; A: *Its RE-BAAWWKS!*).

I will close by saying that I am committed to continuing the excellent job established by my predecessors in the role of PSA newsletter editor. If I fall down on the job, please let me know. My phone is (919) 542-8202; FAX (919) 542-8246; e-mail Glenn\_Carpenter@ces.ncsu.edu.

time to rest as he now has the responsibility of PSA Secretary-Treasurer to add to his already busy schedule.

The midyear meeting of the Board will occur in Atlanta on January 17-18, 1998. The agenda includes the usual

business of the association as well as the establishment of the PSA's working relationship with FASS.

From the entire Board, I would like to wish the membership all the best in 1998.

	<p><b>President</b> Henry L. Classen Dept. of Animal/Poultry Science University of Saskatchewan 72 Campus Drive Saskatoon, SK, Canada S7N 5B5 306/966-6600 FAX 306/966-4560 e-mail: classen@abyss.usask.ca</p>	<p><b>Secretary-Treasurer</b> Louis C. Arrington University of Wisconsin 1675 Observatory Dr. #260 Madison, WI 53706-1284 608/262-1774 FAX 608/262-5157 e-mail: lcarrring@facstaff.wisc.edu</p>	<p><b>Directors</b> Andrew F. Giesen Novus International Inc. 314/576-8446 FAX 314/576-4751 e-mail: afgies@novusint.com</p>	<p>John A. Proudman USDA/ARS/GGPL 301/504-8094 FAX: 301/504-8546 e-mail: johnp@ppgl.arsusda.gov</p>
	<p><b>First Vice President</b> Donald D. Bell Cooperative Extension University of California Highlander Hall Riverside, CA 92521 909/787-4555 FAX 909/787-7251 e-mail: don.bell@ucr.edu</p>	<p><b>Past-President</b> Henry M. Engster Perdue Farms, Inc. P.O. Box 1537 Salisbury, MD 21802-1537 410/543-3411 FAX 410/543-3965 e-mail: hme@shore.intercom.net</p>	<p>Sally L. Noll University of Minnesota 612/624-4928 FAX 612/625-5789 snoll@mes.umn.edu</p>	<p>Sheila E. Scheideler University of Nebraska 402/472-6451 FAX: 402/472-6362 e-mail: ses@unlinfo.unl.edu</p>
	<p><b>Second Vice President</b> Edwin T. Moran, Jr. Dept. of Poultry Science Auburn University Auburn University, AL 36849 334-844-2617 FAX 334-844-2641 e-mail: emoran@acesag.auburn.edu</p>	<p><b>Business Office</b> 1111 N. Dunlap Ave. Savoy, IL 61874 217/356-3182 FAX 217/398-4119 e-mail: psa@assocq.org</p>	<p>Anthony J. Pescatore University of Kentucky 606/257-7529 FAX 606/323-1027 e-mail: apescato@ca.uky.edu</p>	

# PSA Individual Sustaining Members

December 18, 1997

## GOLD (\$100.00 or more)

George H. Arscott  
J. James Bitgood  
Phongthep Chiaravanont  
Derek A. Emmerson  
Henry M. Engster  
Robert J. Etches  
Andrew F. Giesen  
John W. Hardiman  
Harlan Hochstetler  
Hiram N. Lasher  
Elizxabeth M. McKenzie  
Edwin T. Moran, Jr.  
Ken Powell  
Robert N. Shoffner  
David C. Snetsinger  
Scott W. Spreen  
Thomas W. Sullivan  
J. D. Summers  
Sherman P. Touchburn

## SILVER (\$50.00)

J. O. Anderson  
Donald D. Bell  
Harold V. Biellier  
Hans H. Cheng  
Donal P. Conway  
Peter R. Ferket  
G. S. Geiger  
Richard H. Forsythe  
N. Roy Gyles  
Harry J. Konen  
Kenneth K. Krueger  
Alice E. Murakami  
Edward C. Naber  
Yukio Nakata  
Jun-ichi Okumura  
William J. Owings  
Rodolfo O. Romano  
Arnold S. Rosenwald  
Takashi Sakaida  
Karel A. Schat  
Robert W. Schwartz  
F. Barry Shaw  
Ralph H. Stonerock  
J. Robert Smyth, Jr.  
Yoshinori Tamaki  
Roy N. Watkins  
Bernard C. Wentworth

## BRONZE (\$25.00 or more)

Albert Adams  
Daniel K. Andrews  
Janice M. Bahr  
Francine A. Bradley  
John T. Brake  
Donald J. Bray  
Joaquim Brufau de Barbera  
Lyndon B. Carew  
C. Wendell Carlson  
June DeGraft-Hanson  
Milton Y. Dendy  
Florencio Eusebio  
David Galili  
Michelle A. Hall  
Reed S. Hansen  
Patricia Y. Hester  
Scott W. Hinners  
John R. Hunt  
Donald W. Jeannoutot  
Leo S. Jensen  
Rahmi Kanat  
Frank Howard Kratzer  
Wayne J. Kuenzel  
Verne A. Logan  
Gareth M. Lowder  
Eddie Loyd  
James A. Marion  
Greg F. Mathis  
Takano Murano  
Mary Ann Ottinger  
John A. Proudman  
William H. Revington  
James S. Rock  
Ernest Ross  
Paul H. Sammelwitz  
Thomas F. Savage  
Simon M. Shane  
George M. Speers  
Virgil A. Stangeland  
Abilio C. Tardin  
Wayne D. Williams  
Nicholas G. Zimmermann

Individual Sustaining Membership sponsors one-year free membership to Graduate Students who are first-time members.

# 1998 Poultry History Award Nominations Sought

LOUIS C. ARRINGTON  
University of Wisconsin

The American Poultry Historical Award, consisting of \$200 and a plaque, is presented in even-numbered years. The APHS award is given for sustained contributions in documenting and recording historical information regarding the poultry industry development, preserving artifacts and other items of historical interest to the poultry industry, and encouraging the publication of related information.

Nominations may be made by any individual who is knowledgeable of the nominee's accomplishments. Any person, other than a previous recipient of the award is eligible. Past recipients include **J. W. Gwin, O. A. Hanke, J. L. Skinner, R. L. Hogue, C. F. Peterson, E. M. Funk, R. C. Hartman, and M. L. Sunde.** We know that there are many deserving individuals and encourage you to prepare and submit nominations.

The nomination should consist of a nominating letter and a seconding letter, five copies of supporting materials, including a brief biography of the individual, a statement of the individual's contributions in preserving or recording historical information, and copies of publications, pictures or documentation of materials placed in museums for preservation.

The deadline for receiving nominations is **March 1, 1998.** Send nominations to me at: 260 Animal Sci. Bldg., 1675 Observatory Dr., Madison, WI 53706-1284. If there are questions, call me at: (608)262-9764.

### A Late Thank You

The following individuals were not recognized for their 1997 contribution to the Individual Sustaining Membership Program:

Silver: Joe Hudspeth  
Bronze: Albert Lun

# Annual Meeting of the Association, 1998

## TIME AND PLACE

The 87th Annual Meeting will be held at the Pennsylvania State University, University Park, PA, August 3 to 7, 1998. Preparations for the meeting are well underway, and the planning committees are looking forward to your attendance. Future issues of the *PSA Newsletter* will carry further details of the events as they become available. Specific questions and special meeting room requests should be directed to the chair of the Local Arrangements Committee, **W. D. Weaver, Jr.**, Department of Poultry Science, 213 William L. Henning Bldg., The Pennsylvania State University, University Park, PA 16802-3501; e-mail: wdw2@psu.edu

## PROGRAM CHAIRS

General Chairperson—**W. E. Huff**, USDA/ARS/PPPSRU, Room 0-303, Poultry Science Center, University of Arkansas, Fayetteville, AR 72701; e-mail: huff@comp.uark.edu

General Chairperson-Elect—**M. R. Bakst**, GGPL, USDA/ARS, Bldg. 262, BARC-East, Beltsville, MD 20705; e-mail: murray@ggpl.arsusda.gov

Environment and Management—**S. L. Noll**, Department of Animal Science, 120 Peters Hall, University of Minnesota, St. Paul, MN 55108; e-mail: snoll@mes.umn.edu

Extension and Instruction—**M. P. Lacy**, Extension Poultry Science Unit, 4 Towers Bldg., University of Georgia, Athens, GA 30602-4356; e-mail: mlacy@uga.cc.uga.edu

Genetics—**D. A. Emmerson**, Department of Animal and Poultry Sciences, 3290 Litton Reaves Bldg., Virginia Tech, Blacksburg, VA 24061-0306

Immunology—**P. S. Holt**, SEPRL, USDA/ARS, 934 College Station Rd., P. O. Box 5657, Athens, GA 30605; e-mail: psholt@asrr.arsusda.gov

Nutrition—**C. M. Parsons**, Animal Sciences Laboratory, 1207 W. Gregory Drive, University of Illinois, Urbana, IL 61801; e-mail: poultry@uiuc.edu

Pathology—**J. J. Giambrone**, Poultry Science Department, Auburn University, Auburn, AL 36849-5416

Physiology—**D. M. Denbow**, Department of Animal and Poultry Sciences, 3290 Litton Reaves Bldg., Virginia Tech, Blacksburg, VA 24061-0306; e-mail: denbowdm@vt.edu

Posters—**R. F. Wideman, Jr.**, Department of Poultry Sciences, University of Arkansas, Fayetteville, AR 72701

Processing/Products—**D. E. Conner**, Poultry Science Department, Auburn University, Auburn, AL 36849-5416

## PAPERS AND PRESENTATIONS

1. Abstracts must be **submitted via the web site (by midnight) and hard copies (postmarked) on or before March 15, 1998**. Abstracts not meeting this deadline will be rejected. Mail two (2) paper copies to: PSA 1998 Meeting Abstracts, PSA Headquarters Office, 1111 North Dunlap Avenue, Savoy, IL 61874. Authors without internet access or who are uncomfortable with the notion of electronic submission can submit a paper copy of their abstracts. Each abstract must be in the format described below and must be accompanied by \$15.00 US (a check or credit card number WITH EXPIRATION DATE are acceptable means of paying this charge). Authors submitting more than one abstract must include \$15 dollars for EACH abstract they submit.

2. The abstract, not exceeding 2,300 keystrokes, must be prepared according to instructions forwarded by the Business Office to all members. Additional information may be obtained from the Business Office (**Mary Swenson**, Poultry Science Association, Inc., 1111 N. Dunlap Ave., Savoy, IL 61874).

3. In preparation of abstracts, authors are urged to refer to Volume 76, Suppl. 1, 1997 issue of *Poultry Science* for the format to be used. It is: title of paper, author(s) with initials preceding the surname(s), name of department or section or division (or section and department), university or firm or other organization, address (note that an abbreviation is used for state or province and that the country is shown for abstracts outside the United States), and zip code or other postal code, and finally, the abstract paper.

4. The abstract should give clear, concise information on the problem, materials, procedure(s), method(s) used, results, and conclusions. Statements regarding work in progress, contemplated or planned, should not be included. Statements such as "... will be discussed," etc., should not be used. Short footnotes may be added.

5. It is recognized that abstracts of some papers for the Extension and Instruction and Processing and Products sections, panel participation or symposia, or requested review papers may not follow these instructions implicitly, but the general format should apply. The rule concerning the length of the abstract will be strictly enforced.
6. The author must indicate a preference as to the section in which the paper might be presented. The name of the author who will present the paper should be indicated by an asterisk after the presenter's name. An abstract should not be submitted unless one of the authors expects to be in attendance to present the paper. Only 2 × 2 slides may be used.
7. An author desiring to present more than one paper should indicate the order of preference.
8. Papers may be a) accepted for presentation or b) refused.
9. The Board of Directors has instructed the General Program Chairperson that he, or she, with the assistance of the Section Chairpersons, has full responsibility and authority for disposition of papers as in item 7, to assign papers to sections and arrange the order of presentation within sections, to limit the number of papers accepted from a laboratory or other unit, and to solicit papers with no inference of later acceptance for publication as manuscripts in *Poultry Science*. A Section Chairperson may arrange with the Editor, prior to the annual meeting, for publication of papers presented at a symposium or a review paper.
10. Abstracts will be published, as submitted, in the 1998 supplement issue of *Poultry Science*. Copies of the abstracts section of the journal will be available by the annual meeting.
11. Additional copies of the abstract booklet, if available, may be purchased at cost at the registration desk.
12. Reprints of abstracts, following publication in *Poultry Science*, may be purchased at a cost of \$99.00 per hundred if an order with billing and shipping instructions is forwarded to the Business Manager prior to the end of the annual meeting.

### **NOMINATIONS FOR HONORS AND AWARDS**

Rules and regulation for nominations for honors and awards may be found in the Appendix to the Constitution, Section F, *Poultry Science* 75:1278–1292. Where membership in the Poultry Science Association is a prerequisite for receiving an award or honor, it is the nominator's responsibility to verify the candidate's membership in the Association. Letters of transmission should state that verification has been received. Nominations and documentation of previously unsuccessful candidates for awards and honors will be carried over for a second consideration; thereafter, they should be resubmitted when appropriate. Nominations should be submitted to the appropriate Awards Committee Chairperson by March 1, 1998. The Awards Committee Chairpersons for 1997 are:

**American Egg Board Research Award**—**Mary E. Van Elswyk**, Omega-Tech, Inc., e-mail: mvelswyk@omegadha.com

**American Feed Industry Association Award**—**Craig Coon**, Department of Poultry Sciences, University of Arkansas, Fayetteville, AR 72701; e-mail: ccoon@comp.uark.edu

**American Poultry Historical Society Award**—**Lou C. Arrington**, Department of Animal Sciences, 260 Animal Sciences Bldg., University of Wisconsin, 1675 Observatory Drive, Madison, WI 53711; e-mail: lcarrying@facstaff.wisc.edu

**Broiler Research Award**—**J. Stan Bailey**, USDA/ARS, e-mail: jsbailey@ars.usda.gov

**Fellows**—**Glenn W. Froning**, Animal Science Department, University of Nebraska, P. O. Box 830908, Lincoln, NE 68583-0908; e-mail: froning@foodsci.unl.edu

**Helene Cecil Leadership Award**—**Murray Bakst**, GGPL, USDA/ARS, Bldg. 262, BARC-East, Beltsville, MD 20705; e-mail: murray@ggpl.arsusda.gov; and **Francine Bradley**, Department of Avian Sciences, University of California-Davis, Davis, CA 95616-8532

**Maurice Stein Fellowship Award**—**Richard D. Reynnells**, Poultry Science USDA/CSREES/PAP, Room 842, Aerospace Ctr., 901 D Street, SW, Washington, DC 20250-2200; e-mail: rreynnells@reeusda.gov

**Merck Award for Achievement in Poultry Science**—**M. El Halawani**, Department of Animal Science, 120 Peters Hall, University of Minnesota, St. Paul, MN 55108; e-mail: elha1001@maroon.tc.umn.edu

**National Turkey Federation Research**—**Ken Krueger**, Diamond K Research/Consulting, 6525 Shelf Road, Marshville, NC 28103; e-mail: kkkturkey@aol.com

**Pfizer Extension Award**—**Michael P. Lacy**, Extension Poultry Science Unit, 4 Towers Bldg., University of Georgia, Athens, GA 30602-4356; e-mail: mlacy@uga.cc.uga.edu

**Poultry Science Association Research Award**—**Billy M. Hargis**, Poultry Science Department, Texas A&M University, College Station, TX 77843; e-mail: bhargis@cvm.tamu.edu

**Poultry Welfare Research Award**—**Gary E. Duke**, Department of Animal Science, 120 Peters Hall, University of Minnesota, St. Paul, MN 55108; e-mail: duhex001@maroon.umn.edu

**Purina Mills Teaching Award**—**Henry R. Wilson**, Dairy and Poultry Science Department, University of Florida, P. O. Box 110920, Gainesville, FL 32611-0920; e-mail: wilson@dps.ufl.edu

## PSA '98 Preliminary Meeting Schedule

### **Saturday, August 1**

Ancillary Scientists Symposium - *Muscle Growth and Development* - Reception and Keynote Speaker

### **Sunday, August 2**

Ancillary Scientists Symposium - *Muscle Growth and Development*  
National Extension Workshop  
Informal Nutrition Conference  
Opening Session - Dr. Rustum Roy,  
*"Applications Driven Science: Science's Future"*  
Elanco Ice Cream Social

### **Monday, August 3, 1998**

Scientific Sessions - 8 am to 5 pm  
Commercial Exhibits - 10 am to 5 pm  
Posters - 8 am - 5 pm  
Barbeque

### **Tuesday, August 4**

Scientific Sessions - 8 am to noon  
Commercial Exhibits - 8 am to noon  
Posters - 8 am to noon  
Symposia

1 pm - 5:30 pm

*Managing Poultry Reproduction to Satisfy Market Demands (Sponsored by BioPore)*

7 pm - 9 pm

*Effective Extension Poultry Programming in the Next Century*

7 pm - 9 pm

*Reducing the Environmental Impact of Poultry Production: Focus on Phosphorus*

### **Wednesday, August 5**

8 am - noon - Scientific Sessions  
1 pm - WPSA Lecture  
2 pm - PSA Annual Business Meeting  
6 pm - PSA Awards Banquet

## Ancillary Scientists Symposium: Muscle Growth and Development

**Saturday and Sunday, August 1 - 2**

**Symposium Chairs: S. Velleman, Ohio State University, and R. Vasilatos-Younken, Penn State University**

### **Saturday, August 1, 6:45 pm - 9:00 pm**

Wine and Cheese Reception  
Keynote address- William Roenigk, National Broiler Council -  
*Economic Significance of the Poultry Muscle Foods Industry*

### **Sunday, August 2, 8:15 am - 5:00 pm**

*Introduction and Opening*, R. Vasilatos-Younken

#### **Session I: Muscle Physiology, Chair: S. Velleman**

*General Structure of Muscle and Myosin Isoforms*, Everett Bandman  
*Sarcomeric Myosin Heavy Chain Assembly*, Macdonald Wick  
*Muscle Fiber Types in Relation to Poultry Meat Quality*, Andre Sosnicki

#### **Session II: Growth and Development, Chair: R. Vasilatos-Younken**

*Identification of Intracellular Signaling Pathways Regulating Myogenesis*, Sally Johnson  
*Influence of Growth Factors on Poultry Myogenic Satellite Cells*, Douglas McFarland  
*Absence of GH-Induced Muscle Growth in Vivo*, Regina Vasilatos-Younken

Lunch

#### **Session III: Connective Tissue, Chair: S. Velleman**

*Dynamic Expression of Proteoglycans During Chicken Skeletal Muscle Development and Maturation*, David Carrino  
*The Role of the Extracellular Matrix in Skeletal Muscle Development*, Sandra Velleman  
*Extracellular Modifications to Muscle Collagen: Implications for Meat Quality*, Richard McCormick

#### **Session IV: Primary Processing and Product Quality, Chair: M. Denbow**

*PSE in Turkeys*, Gale Strasburg  
*Regulation of Calpastatin Gene Expression*, Parker Antin  
*Processing and Meat Quality*, Alan Sams

Concluding Remarks, S. Velleman

## Managing Poultry Reproduction to Satisfy Market Demands

**Sponsored by BioPore, Inc.  
Tuesday, August 4, 1:00 pm - 5:30 pm**

**Honorary Co-Chairs:  
Peter Lake and Edward Buss  
General Chair: Rupert Amann**

*General Introduction and Introduction of Honorary Co-Chairs*,  
Rupert Amann

*Overview of the Challenges Facing the Industry*, David Pollock

*Lessons for the Poultry Industry Gleaned from Experiences with  
Other Commodity Species*, Rupert Amann

*Retrospective Approaches when Faced with Flock Fertility  
Problems: Who Didn't Do it and Why?* Graham Wishart

*Prospective Approaches to Avoid Flock Fertility Problems: Who  
is Unlikely to Do it, From the Male Perspective*,  
Anne Donoghue

*Genetic Correlates of Reproductive Traits to Features of Economic  
Importance: What Do You Give Up?* Guy Barbato

*Optimizing Delivery of Genetic Merit in Subtropical Climates  
Through Advanced Reproductive Technologies*,  
Hapal Singh

*Summary of Challenges for the Future*, Roy Hammerstedt

## Effective Poultry Programming in the Next Century

**Tuesday, August 4, 7:00 pm - 9:00 pm**

*Innovative Applications of Distance Education*,  
Janet Poley, Univ. of Nebraska and President of ADEC

*User Fees for Land Grant Universities Activities*,  
Nick Sparks, Scottish Agricultural College

*Balancing Research Programs: Applied and Basic* -  
Jerry Cherry and Charles Beard

## Production: Focus on Phosphorus

**Tuesday, August 4, 7:00 pm - 9:00 pm  
Chair: William Huff, USDA/ARS/PPSRU**

*Phosphorus: An Environmental Concern*,  
Andrew Sharpley, USDA/ARS/PS&WMR

*Phosphorus: A Rate Limiting Nutrient in Surface Waters*,  
David Correll, Smithsonian Environmental Research Center

*Nutritional Approaches to Reducing Phosphorus Excretion*,  
Park Waldroup, University of Arkansas

*Reducing Phosphorus Runoff and Improving Poultry Production  
with Alum*, Philip A. Moore, Jr., USDA/ARS/PPSRU

## PSA Issues

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HANK CLASSEN  
PSA President

In this edition of *PSA Issues*, I will focus on the potential for PSA to facilitate publication of resource texts in Poultry Science. As well presented by **Jerry Cherry** in his remarks to the PSA 1994 Opening Session (and published in Volume 19, Number 1, January 1995 edition of the *PSA Newsletter*), members have different concepts of the role of the PSA. Despite the different viewpoints, exchanging and disseminating scientific information are likely primary in most people's minds. The annual meeting and publication of the *Poultry Science* journal primarily serve these functions but there may be other ways in which the PSA can further these goals.

As I look at my book shelf, I see texts that have served Poultry Science and the Poultry Industry well. As examples, *Nutrition of the Chicken* by Scott, Nesheim and Young, and *Avian Physiology* by Sturkie have been important sources of information. Dog-eared pages and other signs of wear and tear indicate how frequently I have used these texts to complete my teaching, research,

and extension duties. However, I must admit that I do not get them down off the shelf as often anymore. The primary reason is that they no longer represent the most modern science in nutrition and physiology. I also see two other texts on my shelf, the classic *Genetics of the Fowl* published in 1949 and written by F. Hutt, and a 1990 text *Poultry Breeding and Genetics* edited by R. D. Crawford. The former was the primary genetics text in poultry genetics for over 40 years whereas the latter represents its replacement, and an excellent and reasonably up to date monograph of poultry genetics. Despite not working specifically in this area, I find that I do use Crawford's text on a regular basis. This text came to be because Dr. Hutt, and others, encouraged the PSA to initiate the process for its publication.

Is it possible that PSA could again serve its long-standing goals of exchanging and disseminating scientific information by assisting with the publication of other resource texts in Poultry Science? I think the answer is yes. Texts, which primarily cover the basics of avian science, may not be perceived as having the potential to make money for a publisher but are still important sources of information for both industrial and academic members of PSA. It is not my vision that PSA

would try to compete with existing books, particularly those of a more applied nature, but rather to focus on those areas where a gap in publication can be identified and where there is a need for a current and in depth look at a discipline by highly qualified authors.

The PSA already has had success in publishing books, and therefore should be considered for that function as well. Publication of the *First International Symposium on the Artificial Insemination of Poultry and Techniques for Semen Evaluation, Semen Storage, and Fertility Determination* have been received favorably by the membership, as indicated by book sales.

So where do we start? I recently contacted **Kirk Klasing** and requested that he establish a committee that would have the mandate to establish an outline and strategy for publishing a monograph in Poultry Nutrition. Again the concept is to develop a basic publication which is a reflection of the most recent findings in nutrition.

Undoubtedly there are other areas where a reference text would be valuable. Please contact me or other Board members with your ideas or comments on PSA facilitating publication of reference texts for out membership.

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## PSA Welcomes the Following New Members

Sayed H. Abdel-Fattah  
Ain Shams University, Egypt

Joseph El Nahas  
Universite Laval, Canada

David B. Juenger  
Cobb-Vantress, Inc,

Jorge Garcia Rendon  
Malta-Clayton, Mexico

Farouk Hassan Abdou  
Monoufiya University

Ricardo G. Esquerza  
University of Guelph, Canada

Jean-Paul Lacroix  
Ste-Foy, QC, Canada

Kurt Richardson  
Anitox Corp.

Layi Adeola  
Purdue University

E. Dean Evans  
Evans Botanicals

Edward L. Ladwig  
Maple Leaf Farms

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# 1997 National 4-H Poultry & Egg Conference

GARY S. DAVIS  
Extension Specialist  
North Carolina State University

The 1997 National 4-H Poultry and Egg Conference was held on November 20 at the Kentucky Fair and Exposition Center in Louisville, Kentucky. The annual conference allowed 4-H'ers from all over the country to compete in educational events that help them learn to make and defend decisions, speak publicly, and gain skills in poultry-related subject matter.

The 1997 conference included five separate events. This year in the poultry and egg judging contest, 4-H'ers judged ready-to-cook poultry, live production hens, and market eggs. In the chicken and turkey barbecuing contests, the 4-H'ers prepared barbecued chicken and turkey and gave oral presentations on the broiler and turkey industries. The egg preparation demonstrations involved preparing an egg dish and giving an oral presentation on the nutritional value of eggs. In addition to these events, an avian bowl was conducted. The avian bowl is a round robin tournament in which the contestants are required to answer questions regarding poultry science, poultry production, and information about the poultry industries.

A new program was held this year during the Conference — A Poultry Careers Workshop. The 4-H'ers were exposed to hands-on information from poultry food industry personnel and the participants were given pertinent information about the career and educational opportunities in the poultry and animal food sciences. The Workshop began with an industry recruiter kick-off speaker, **Tony Koss**. Breakout sessions then followed which consisted of: (1) Government/Education by **Don Miller** and **Tom Pelon** of the USDA; (2) Integrators by **Kelly Holland** of Tyson Foods; (3) Allied industries by **Sherry McComas** of Novas International; and (4) Communications by **James Plunkett**

of Watt Publishing. Concluding remarks were made by **Trisha Marsh** of Jones-Hamilton. According to the participants' surveys, 93.5% rated the Workshop as excellent. The Conference Committee greatly appreciates the time, dedication, and efforts of the industry representatives. The workshop was sponsored by Cagles, Inc., Hy-Vac, Inc., Maple Leaf Farms, and the Southeastern Game Breeders and Hunting Preserve Association.

The 144 senior 4-H'ers, representing 26 states, participated as teams or individuals. Team competition was held in the poultry and egg judging contest and the avian bowl. Individuals competed in the egg preparation and the turkey and chicken barbecuing contests. Twenty teams judged poultry and eggs, and nine teams competed in the avian bowl. Eight individuals participated in the turkey barbecuing contest, 11 in chicken barbecuing, and 15 in the egg preparation demonstration. **Don Dalton**, President of the U. S. Poultry & Egg association, **Richard Reynnells** of the USDA, and **Janet Brown** of the Poultry Science Association attended the conference and participated at the awards banquet. Along with the 4-H'ers, about 285 people, including county extension agents, 4-H leaders, chaperons, coaches, poultry specialists, and federal extension personnel, helped make the conference a success.

The conference was funded through contributions of goods, finances, and services from many individuals, companies, and commodity organizations. A total of 52 organizations provided financial support for awards. The Indiana State Poultry Association sponsored the omelet dinner on the evening before the contests. The U. S. Poultry & Egg Association sponsored the awards banquet and provided funding for awards for the judging contest. The chicken barbecue awards were sponsored by Tyson Foods, Inc. The turkey barbecuing contest awards were sponsored mainly by British United Turkeys of America, Goldsboro Milling Co., House of Raeford Farms, Nicholas Turkey Breeding Farms, and the Wisconsin Turkey Federation. Awards for the egg cookery demonstrations were sponsored by funding from the American Egg Board, Georgia Egg Commission, Louisiana Egg Commission,

North Carolina Egg Association, Maryland Egg Council, Texas Egg Council, and the United Egg Board. Contributions from Perdue Farms, Gold Kist Poultry, Hubbard Farms, Inc., Hy-Line International Co., Chilson's Management Controls, California Poultry Industry Federation, Cryovac Division, W. R. Grace & Co., and Southern States Cooperative sponsored the awards for the avian bowl. Additional thanks are extended to the Poultry Science Association, the USA Branch of WPSA, the South Carolina Poultry Federation, the Kentucky Poultry Federation, the American Poultry Historical Society, the Wisconsin Poultry Improvement Association, and the Midwest Poultry Federation for their donations this year to the National Conference. It is difficult to mention all the sponsors in this format, however, special appreciation goes out to all of the supporting organizations and individuals. The National 4-H Poultry and Egg Conference could not exist without their contributions.

The Kentucky team, coached by **Pam Hay**, won the avian bowl contest. The winning team members were **Julie Hinkle**, **Ella Fields**, **Becky Smith**, and **Brittany Smith**. Other top ranking teams were, Ohio, Oregon, Arkansas, and Minnesota.



The Kentucky team won first place in the Avian Bowl Contest. Pictured left to right: **Julie Hinkle**, **Ella Fields**, **Pam Hay** (coach), **Becky Smith**, and **Brittany Smith**. The team was presented awards of gold pins, plaques, and \$100 savings bonds.

In the cooking contests, **Laura Wright** from Virginia took first place in the chicken barbecue demonstration, **Sarah Martz** from Virginia took first place in the turkey barbecue competition, and **Lory Holbrook** from Kentucky won the egg preparation demonstration contest.

(continued pg 10)



**Laura Wright** (center) from Virginia won first place in the Chicken BBQ Contest. **Lena Osborne** (left) accepts the coach's award for **Jimmy Osborne**. **Robert Hogue** (right), representing the broiler industry, presents the award of a watch, gold pin, plaque, and a \$500 savings bond.



**Sarah Martz** from Virginia won first place in the Turkey BBQ Contest. Pictured left to right are **Lena Osborne** (coach), **Sarah**, and **Robert Hogue**, representing the turkey industry. Mr. Hogue presented the awards of a watch, gold pin, plaque, and a \$500 savings bond.



**Lory Holbrook** from Ohio won first place in the Egg Preparation Demonstration. Pictured left to right, **Kaye Holbrook** (mother and coach), **Tony Pescatore**, presenting awards of a watch, gold pin, and a \$500 savings bond, and **Lory**.

Competition was exceptional in the poultry and egg judging contest this year. In poultry judging, the individual winning the Production Hen division was **Michael Cavanaugh**, from Maryland, and the Maryland team won the team competition for that division. In the Market Poultry division, **Kathryn Threewitts**, from Virginia, won the individual competition and the Virginia team also won the team competition. The individual winning the Market Egg division was **Lucas Eades** from Illinois, and the team competition was won by Virginia.

The overall individual champion in the poultry and egg judging contest was **Mike Dunlop**, from Virginia, scoring 1,411 points out of a possible 1,500.



The overall individual champion in the poultry and egg judging contest was **Mike Dunlop** from Virginia. **Don Dalton** of the U.S. Poultry and Egg Association presents the award, of watch, gold pin, plaque, and a \$500 savings bond.

Virginia was the overall team champion in poultry and egg judging, scoring 4,206 points out of a possible 4,500. The Virginia team consisted of **Kristine Grayson**, **Jeff Heatwole**, **Jennifer Pence**, and **Kathryn Threewitts**. The Virginia team was coached by **Mike Wanger**. Other top ranking teams were Maryland, 2nd; Florida, 3rd; Georgia, 4th; Ohio, 5th; Tennessee, 6th; Arkansas, 7th; Indiana, 8th; Nebraska, 9th; and Illinois, 10th.



The Virginia team is the overall team champion of the poultry and egg judging contest. Pictured left to right are **Mike Wanger** (coach), **Kristine Grayson**, **Jeff Heatwole**, **Jennifer Pence**, **Kathryn Threewitts**, and **Don Dalton**, presenting the award plaques and trophies.

**DEADLINE FOR ITEMS FOR PSA NEWSLETTER**

.....  
The deadline for items to be included in the April 1998 issue of the *PSA Newsletter* is February 10, 1998. Send items to *PSA Newsletter*, 1111 N. Dunlap Ave., Savoy, IL 61874 (phone 217/356-3182; FAX 217/398-4119; e-mail: [annm@assoqh.org](mailto:annm@assoqh.org)); or to the editor: Glenn H. Carpenter, Chatham County Center, 45 South Street, P. O. Box 279, Pittsboro, NC 27312; (phone: 919/542-8202; FAX: 919/542-8246; e-mail: [Glenn\\_Carpenter@ces.ncsu.edu](mailto:Glenn_Carpenter@ces.ncsu.edu)

## Update on the Poultry Science Resource List

Please be aware that the Resource List was NOT mailed to PSA members. The Resource List was mailed to all the individuals listed in the book. If you are a PSA member and would like a copy, please contact the PSA Business Office. Or, you can request your **free** copy (complementary to PSA members) from the PSA web site:  
<http://www.psa.uiuc.edu>

## WPSA Board Student Representative

.....  
ART MAUER  
University of Wisconsin

The Board of Directors of the USA Branch, WPSA, has created an Ad Hoc position on the Board for a student member. The purpose of adding this position is to solicit opinions of current and potential student members regarding membership efforts and program direction.

The person selected will serve a 2-year term. No travel funds are available and no other financial compensation will be provided. Gratis USA Branch membership will be provided for the duration of the student's term. There are no age or citizenship criteria for selection. Selection will be made by the committee members and others that are to be added at the committee's choosing (a minimum of eight members of the USA Branch of the WPSA). As a requirement for consideration, students must be in a Poultry, Animal Science, or related department having a poultry area of emphasis. The

student must also be willing and able to attend the annual PSA meeting, and the US Poultry and Egg Association International Trade Show, at no expense to the USA Branch, in order to participate in the Board of Directors' Business Meeting. The student will be expected to survey other students regarding USA Branch programs and recruitment efforts and be an active member of the organization's Membership Committee.

The application will include a letter of recommendation by a major professor, student advisor, department head, or other poultry faculty member, three letters of recommendation from peers (one of which must be a student at the college which the applicant is attending), and a statement from the applicant. This statement must indicate why the person wants to be considered, how the person will strengthen the USA Branch, and what are the person's career plans.

All materials must be submitted to *WPSA Board Student Representative Position*, Department of Animal Sciences, University of Wisconsin, 1675 Observatory Drive, Madison, WI 53706-1284 by March 1, 1998. It is anticipated that a student representative will be selected in time that he/she can plan to attend this summer's meeting of the Poultry Science Association.

## Coming Spring 1998!

Plan now for the first-ever FASS Directory, which includes the directory of members for the Poultry Science Association, American Dairy Science Association, and the American Society of Animal Science.

In all, the Federation of Animal Science Societies (FASS) Directory of Members will contain listings for nearly 10,000 research scientists. Every profes-

## PSA Awards

**NOMINATIONS AND SUPPORTING MATERIALS ARE DUE MARCH 1, 1998**

**If you have a PSA award nomination, please submit the supporting materials to the award committee chair by March 1. It is not too late to make a nomination! Contact the award committee chair with your nomination and make sure you submit the supporting materials by March 1.**

# Coming Events!



## February 10-11, 1998

**1998 Australian Poultry Science Symposium.** University of Sydney, Sydney, NSW, Australia. Contact: R. A. E. Pym. department of farm Animal Medicine and Production, University of Queensland, 4072, Australia; FAX +61(7)3365-1288. where required, overseas participants should make applications for an entry visa at least 12 weeks prior to their proposed date of travel.

## March 8-10, 1998

**Western Poultry Disease Conference.** Capitol Plaza Holiday Inn, Sacramento, CA. Contact: Dr. Richard P. Chin (209) 498-7740; FAX: (209) 485-8097. A website contains registration materials, and also a call for papers. The URL is: [www.vetnet.ucdavis.edu/vetext/INF-PO\\_WPDC-Call97.html](http://www.vetnet.ucdavis.edu/vetext/INF-PO_WPDC-Call97.html).

## March 12-13, 1998

**Maryland Nutrition Conference.** Renaissance Harborplace Hotel, Baltimore, MD, phone: (410) 547-1200. Contact person for this event is John Doerr, phone: (301) 405-5782.

## June 7-10, 1998

**4th World Congress on Foodborne Infections and Intoxications.** Federal Institute for Health Protection of Consumers and Veterinary Medicine (BgVV), Berlin, Germany. Contact the Congress Office, 4th World Congress, Federal Institute for Health Protection of Consumers and Veterinary Medicine, Diedersdorfer Weg 1, D-12277, Berlin, Germany. phone: 49-30-8412-2158; fax: 49-30-8412-2957; e-mail: [4.wkoffice@bgvv.de](mailto:4.wkoffice@bgvv.de)

## June 21-26, 1998

**10th European Poultry Conference.** (organized by the Israel Branch of the WPSA). Jerusalem Renaissance Hotel, Jerusalem, Israel. contact Conference Secretariat, WPSA Israel Branch, 10th European Poultry Conference, PO Box 50006, Tel Aviv, 61500, Israel; phone (972 3)5140000, FAX (972 3) 5175674/5140077, e-mail: [POULTRY@Kenes.ccmil.compuserve.com](mailto:POULTRY@Kenes.ccmil.compuserve.com).

## June 28-July 4, 1998

**VIII World Conference on Animal Production.** Seoul National University, Seoul, Korea. Contact Dr. Jong K. Ha, Chairman, Organizing Committee, 8th WCAP, Seoul National University, Suweon, Korea 441-744; phone 82-331-290-2348, FAX 82-331-292-3801.

## October 19-21, 1998

**National Poultry Waste Management Symposium.** Holiday Inn, Springdale, AR 72762; phone (501) 751-8300. For information about the conference contact Susan Watkins at the University of Arkansas at (501) 575-7902.

## December 7-10, 1998

**3rd International Conference on Farm Animal Endocrinology: The Somatotropic Axis.** Congress Center, Brussels, Belgium. Abstracts due July 1, 1998; pre-registration September 1, 1998. contact: secretariat, 3rd Conference on Farm Animal Endocrinology, University of Agronomy, Molecular Biology and Animal Physiology Dept. 13, Avenue Marechal Juin, B-5030 Gembloux, Belgium. Phone 32-(0)81-6232418; FAX 32-(0)81-613888; E-mail: [GH.IGF\\$FSAGX.AC.BE](mailto:GH.IGF$FSAGX.AC.BE)

## Letter to the Editor

### Donation of Poultry Science Journals

I will donate free of charge my complete set of Poultry Science journals (1957 through 1996, with only one volume missing) to anyone who will pay for shipping or pick them up.

Roger W. Temple  
130 Skyfields Drive  
Groton, MA 01450-1814  
Phone: 978-448-5413  
FAX: 978-448-2247

### Future PSA Meetings

.....  
1998 — Pennsylvania State University — August 3–7  
1999 — University of Arkansas — August 1–4  
2000 — Immediately preceding WPSA in Montreal, Canada

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# International Symposium on Foodborne *Salmonella* in Poultry

July 25-28, 1998, Baltimore, Maryland

Sponsored by the American Association of Avian Pathologists

Following in the tradition of the 1984 AAAP *Salmonella* Symposium, the 1998 Symposium will focus on assessing the available practical options for controlling the incidence of *Salmonella* infections in poultry flocks and *Salmonella* contamination in poultry products. Scheduled in conjunction with the 1998 annual meeting of the American Veterinary Medical Association, the Symposium will feature a roster of internationally authoritative speakers and will also include a poster session to maximize scientific participation and interaction. General discussion will provide opportunities for summarizing information and sharing ideas. Planned program highlights will include:

Obstacles to control	Serological testing
Relevant characteristics of the <i>Salmonella</i> organism	New and emerging detection techniques
Contamination of raw poultry products	Antibiotics
Industry initiatives	Competitive exclusion
Feed contamination	Killed, live, and subunit vaccines
Breeders and hatcheries	Effects of feed withdrawal
Rodents, insects, and dust	Processing equipment
Biosecurity and disinfection	Detecting <i>Salmonella</i> in processing plants
Predisposing factors	Chemical control of microbial levels on raw poultry
Environmental testing	Egg processing and irradiation

Plan now to attend. To receive more information, contact: 1998 *Salmonella* Symposium, c/o AAAP, 382 West Street Road, Kennett Square, PA 19348-1692.

## 2nd International Symposium on EGG NUTRITION AND NEWLY EMERGING OVO-BIOTECHNOLOGIES

April 5 - 8, 1998

Banff Center

Banff, Alberta, Canada

The purpose of this symposium is to allow the exchange of nutrition and health issues focussed on the egg, and newly emerging egg nutraceuticals and ovo-technologies among all sectors involved, including researchers, food industry representatives, health professionals, and consumers. This symposium will highlight three themes: 1) food fats and chronic diseases; 2) eggs as a life-supporting chemical house, and emerging nutraceutical ovo-biotechnologies; and 3) food safety and newly emerging pasteurization technologies.

For more information, contact Linda Callan, Conference Secretary, Department of Agricultural, Food, and Nutritional Science, 4-10 Agriculture/Forestry Centre, University of Alberta, Edmonton, AB CANADA T6G 2P5; phone: 403/492-0169; FAX: 403/492-9130; e-mail: lcallan@afns.ualberta.ca. Or visit our website: [www.afns.ualberta.ca/eggssymposium](http://www.afns.ualberta.ca/eggssymposium)

## DISCOVER Conferences

**A** new conference series identified as "DISCOVER Conferences" will be launched in the summer of 1998. The series is being sponsored by the ADSA Foundation with **Bill Baumgardt** serving as Coordinator. The concept is modeled somewhat after the Gordon Conferences in terms of providing an environment and format that encourages exciting interactions among scientists and educators. Sessions will be in mornings and evenings with afternoons available for recreation, discussion, etc.

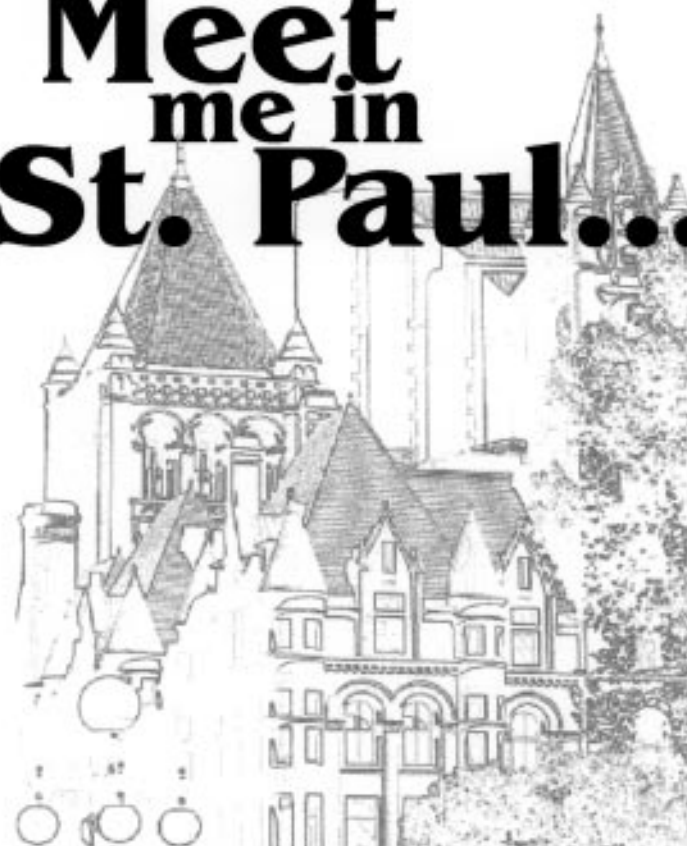
The first DISCOVER Conference will be held June 1-4, 1998 at the Abe

Martin Lodge in the rolling hills of Brown County State Park near Nashville IN, which is about an hour south of Indianapolis. The topic is "Animal Health, Environmental Health, and Public Health: Research to Assure the Future of Food Animal Agriculture." An opening session will provide an update of issues and concerns by producers, marketing sector, processors, regulators, and consumer groups. The remainder of the conference will provide scientists with the opportunity to hear discussion starter papers from leading researchers in the field and then to engage in open interchange among scientists, each sharing the latest information.

The tentative topics for the research sessions are: (1) Pathogens (known or

suspected) in Food of Animal Origin. (2) USDA Pathogen Reduction Act: Implications for Education and Research. (3) Animal Treatments and Implications for Food Products (drug residues), antibiotic resistance, medication practices and alternatives. (4) Environmental Health. (5) Animal Disease - Human Disease Linkages.

If you would have suggestions or would like to receive more information on the DISCOVER Conferences please contact: DISCOVER Conferences, Association Headquarters, 1111 North Dunlap Ave., Savoy IL 61874. Or contact **Bill Baumgardt** at 2614 Trace 26, West Lafayette, IN 47906; via email at [brb@aes.purdue.edu](mailto:brb@aes.purdue.edu), or phone at 765-494-8362.



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