

newsletter

VOLUME 23

NUMBER 1

JANUARY 1999

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From Your President

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DON BELL
PSA President

1999 Annual Meeting Symposia



Murray Bakst and his Program Committee for the 1999 Annual Meeting to be held in Springdale, Arkansas between August 8 and 11 are busy setting the format and

putting together a series of informative symposia for our next conference. This year's meeting will feature four two-hour symposia on Tuesday, August 10:

- 1) "Regulation of Testis Function and Semen Production in Poultry" chaired by **John Kirby**, University of Arkansas.
- 2) "A Teaching Symposium" chaired by **Roger Lien**, Auburn University.
3. "Role of Poultry Products in Enriching the Human Diet with n-3 PUFA" chaired by **Sheila Scheideler**, University of Nebraska.
- 4) "*Campylobacter* as a Food Safety Hazard in Poultry" chaired by **Donald Conner**, Auburn University.

In addition, the annual Ancillary Scientist's program arranged by **Jim Petite's** Ancillary Scientist Committee will focus on "Skeletal Biology and Related Problems in Poultry". This impressive session is co-chaired by **Narayan Rath**, USDA - Fayetteville and **Roland Leach**, Penn State. A dozen or more highly qualified speakers will participate in this program. As usual, the Ancillary Scientist program will be held on Sunday (August 8). The program will be preceded by a reception on the evening of Saturday (August 7). More details concerning topics and speakers may be found elsewhere in this newsletter.

Finance Committee Meeting

At the 1998 Annual Meeting of the Board of Directors, an additional charge was made to PSA's Finance Committee directing this committee to "review and make recommendations concerning the financial and investment strategies of the organization". The committee, consisting of the Secretary-Treasurer **Lou Arrington**, the immediate Past President **Hank Classen**, the First and Second Vice Presidents **Ed Moran** and **Bill Saylor**, the Business Manager **Greg Martin** (ex officio), and FASS Executive Vice President for Administration **Chuck Sapp** (ex officio) attended a meeting in Savoy in December of 1998 to review current investment policies, to hear presentations from several investment management firms, and to determine a policy of investment for the Association. The committee will review their

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Glenn H. Carpenter, Editor
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1111 N. Dunlap Avenue
Savoy, IL 61874

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(President... from pg 1)

findings and recommend an investment policy to the Board of Directors at its midyear meeting in Atlanta in January of 1999.

The Board of Director's Conference Call Meetings

Hank Engster initiated them, Hank Classen used them effectively, and the current Board will have had three conference call meetings by the time you've read this newsletter. The idea is great and is a great conserver of time and expense for your Association. Your Board usually has a 15 to 20 item agenda each month and discussions usually take about one hour. Everyone participates and Lou Arrington and Greg Martin refresh our memories shortly after our meetings with full comprehensive notes.

Don't forget the Board wants your participation in issues affecting our membership. If you ever want to bounce an idea off someone, or wish to complain about some activity (or lack of activity) of your Association, please feel free to contact one of your officers or Board members. Their contact numbers are all listed in this newsletter.

Concerns About the Apparent Trends in Our Membership Numbers

Those of you in attendance at the 1998 Annual Meeting, held this past summer at Penn State, had the opportunity to hear an excellent presentation by **Sam Pardue**, Chairman of the Member-

ship Committee. Basically, he told us that membership in the Association continues to decline and current data supplied by our Business Manager Greg Martin appears to confirm this fact.

Interestingly, though, domestic student, domestic institutional, Canadian student, international member, and international student memberships have all risen during the 1992 to 1997 period. Overall membership on July 1 of 1998 was down only 41 members from numbers from one year earlier. Student membership in PSA experienced the most exciting growth, with domestic students increasing 12.8%, Canadian students increasing by 58.8%, and international students by 133.3% during the 1992 through 1997 period. International membership increased from 288 in 1992 to 380 in 1997.

PSA lists 15 different categories of membership and on November 6, 1998, this totaled some 3,037 members, of which 1,490 were listed as "Professional Members". The next largest class of membership is the "Institutional", which totals 1,010. Graduate and undergraduate students make up the third largest category, with about 250 members.

This year, two committees have been asked to study this report and determine immediate courses of action to turn the trend around with a pro-active program. You may be asked to participate in one way or another, but regardless, I'm sure both committees would appreciate your suggestions on the issue. Contact either **J. H. Douglas**, chair of the

1999 Membership Committee, **Mary Beck**, chair of the Long Range Planning Committee (or any of their committee members), or myself.

Some of the ideas currently being discussed include additional emphasis on new memberships from the foreign, student, and industry segments. As University Departments become fewer in number and size, our only opportunity for growth must come from these other segments. But, we must not forget to recruit our own Department members who still remain nonmembers in this Association.

HONOR YOUR COLLEAGUES

We are still accepting nominations for PSA Awards. All materials must be in the hands of the Award Center Chair by **March 15, 1999**. Let's not let these fine individuals go unrecognized.



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PSA 1999 Individual Sustaining Members

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December 12, 1998

GOLD (\$100.00 or more)

Henry M. Engster
 Andrew F. Giesen
 John W. Hardiman
 William C. Merka
 Walther H. Ott

SILVER (\$50.00 or more)

J. O. Anderson
 Louis C. Arrington
 Donald D. Bell
 Hans H. Cheng
 Glenn Stuart Geiger
 Richard W. Gerry
 Yen-Pai Lee
 Nelson Ruiz
 Takashi Sakaida
 Robert W. Schwartz

BRONZE (\$25.00 or more)

Albert Adams
 Dong Uk Ahn
 Donald J. Bray
 Paul Griminger
 Reed S. Hansen
 Virgil W. Hays
 Robert L. Hogue
 John R. Hunt
 Peter A. Kondra
 Gregory P. Martin
 Mary Ann Ottinger
 William H. Revington
 George M. Speers

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

PSA Would Like to Acknowledge The Following Individual Sustaining Members for 1998

GOLD (\$100.00 or more)

George H. Arscott
 J. James Bitgood
 Phongthep Chiaravanont
 Derek Alan Emmerson
 Robert J. Etches
 Melvin G. Greeley
 John W. Hardiman
 Harlan W. Hochstetler
 Hiram N. Lasher
 Elizabeth M. McKenzie
 Walther H. Ott
 Fernando Perez-Gil
 Kenneth C. Powell
 Jerry L. Sell
 Scott W. Spreen
 Thomas W. Sullivan
 Sherman P. Touchburn
 Gilbert A.A. van Putte
 Wayne D. Williams

J. Robert Smyth Jr.
 Ralph H. Stonerock
 Yoshinori Tamaki
 Roy M. Watkins
 Bernard C. Wentworth

BRONZE (\$25.00 or more)

William A. Aho
 Daniel K. Andrews
 Victor Arvat
 Janice M. Bahr
 Murray R. Bakst
 Shai Barbut
 Mary M. Beck
 John Bezpa
 Francine A. Bradley
 John T. Brake
 Joaquim Brufau de Barbera
 Tom Bryan
 Lyndon B. Carew
 C. Wendell Carlson
 David D. Caveny
 June DeGraft-Hanson
 Milton Y. Dendy
 Florencio Eusebio
 David Galili
 Bruce Glick
 Paul Griminger
 Michelle A. Hall
 Reed S. Hansen
 Scott W. Hinners
 Donald W. Jeannoutot
 Leo S. Jensen
 Rahmi Kanat
 Frank Howard Kratzer
 Gareth M. Lowder
 Eddie Loyd
 James E. Marion
 Greg F. Mathis
 Guillermo Oliver
 Mary Ann Ottinger
 Javad Pour-Reza
 John A. Proudman
 Richard D. Reynnells
 Rodolfo O. Romano
 Ernest Ross
 Paul H. Sammelwitz
 Thomas F. Savage
 Sheila E. Scheideler
 Simon M. Shane
 Daniel N. Smith
 James H. Smith

SILVER (\$50.00 or more)

Harold V. Biellier
 Albert Wade Brant
 Hans H. Cheng
 Joseph Claybaugh
 Donal P. Conway
 Mark E. Cook
 Peter R. Ferket
 Richard H. Forsythe
 Glenn W. Froning
 Henry L. Fuller
 Richard W. Gerry
 N. Roy Gyles
 James A. Harper
 William E. Huff
 Harry J. Konen
 Kenneth K. Krueger
 Yen-Pai Lee
 Alice E. Murakami
 Edward C. Naber
 Yukio Nakata
 Jun-ichi Okumura
 Inkee Paik
 Arnold S. Rosenwald
 Takashi Sakaida
 Karel A. Schat
 Robert W. Schwartz
 Thomas J. Sexton
 F. Barry Shaw

DEADLINE FOR ITEMS FOR PSA NEWSLETTER

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The deadline for items to be included in the April 1999 issue of the *PSA Newsletter* is **February 10, 1999**. Send items to *PSA Newsletter*, 1111 N. Dunlap Ave., Savoy, IL 61874 (phone 217/356-3182; FAX 217/398-4119; e-mail: annm@asochq.org); or to the editor: Glenn H. Carpenter, Chatham County Center, 108 South Street, P. O. Box 279, Pittsboro, NC 27312; (phone: 919/542-8202; FAX: 919/542-8246; e-mail: Glenn_Carpenter@ncsu.edu)

Annual Meeting of the Association, 1999

TIME AND PLACE

The 88th Annual Meeting will be held at the Holiday Inn Hotel and Convention Center, Springdale, AR; Hosted by the University of Arkansas, Fayetteville, AR, August 8-11, 1999.

PROGRAM CHAIRPERSONS

General Chairperson—**M. R. Bakst**, GGPL, USDA-ARS, Bldg. 262, BARC-East, Beltsville, MD 20705; murray@lpsi.barc.usda.gov

General Chairperson-Elect—**M. S. Lilburn**, Dept. Animal Sciences OARDC, The Ohio State University, Wooster, OH 44691; lilburn.1@osu.edu

Environment and Management—**G. M. Fasenko**, Dept. AFNS, 410 Agric/Forestry Centre, University of Alberta, Edmonton, AB T6G 2P5, Canada; gfasenko@afns.ualberta.ca

Extension and Instruction—**J. M. Harter-Dennis**, Dept. of Poultry Science, University of Maryland-Eastern Shore, Princess Anne, MD 21853; jhdennis@umes-bird.umd.edu

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Nutrition—**J. H. Douglas**, Hybrid Turkeys, 49 Ashwood Drive, Cambridge, ON N3C 3H7, Canada; douglas@hybrid.turkeys.com

Pathology—**B. N. Nersessian**, Maple Leaf Farms, Inc., P. O. Box 308, Milford, IN 46542; baytzar@aol.com

Physiology—**D. J. Donoghue**, FDA-CVM, 8401 Muirkirk Rd., Laurel, MD 20708; ddonoghue@bangate.fda.gov

Processing and Products—**D. U. Ahn**, Dept. of Animal Sciences, Iowa State University, Ames, IA 50011-3150; duahn@iastate.edu

Posters—**M. M. Beck**, A224 Animal Sciences, University of Nebraska, Lincoln, NE 68538; mbeck@unlinfo.unl.edu

Local Arrangements—**J. H. Denton**, **D. C. Bisbee**, Center of Excellence for Poultry Science, O102B Poultry Science, University of Arkansas, Fayetteville, AR 72701; jdenton@comp.uark.edu, dbisbee@comp.uark.edu and **W. E. Huff**, USDA-ARS/PPPSRU, O303 Poultry Science, Fayetteville, AR 72701; huff@comp.uark.edu

PAPERS AND PRESENTATIONS

1. Abstracts will be submitted via the internet by contacting the PSA'99 website at: <http://www.psa.uiuc.edu/meet/psa99.html>. All instructions concerning the submission process should be reviewed prior to and during the submission process to ensure proper formatting. Additional copies of the instructions for submission can be requested by contacting Association Headquarters (psa@assochoq.org). Changes to submitted abstracts will be allowed until the abstract submission deadline of **March 15, 1999**.

2. Electronic submission of abstracts at no cost to the membership is the preferred method of submission; however, if a member is unable to submit an abstract electronically, paper abstracts will be accepted. Two copies of the abstract that follow the guidelines for submission and a \$15.00 USD fee (for each paper submission) can be mailed to: PSA 1999 Meeting Abstracts, PSA Headquarters, 1111 N. Dunlap Ave., Savoy, IL 61874. All abstracts must be submitted by the **March 15, 1999** submission deadline.

3. The author submitting the abstract is responsible for its content and quality of preparation. All abstracts should contain: a statement of the purpose of the experiment; a description of the experimental design; objective information pertaining to results; an informative conclusion; five key words for indexing. The length of the body of the abstract should not exceed 2,300 keystrokes (including characters and spaces).

Authors will be notified regarding the disposition of their submission(s), together with information on the presentation date and time for each abstract that is accepted. As soon as the program is finalized with days, times, and locations, it will be on the PSA web site.

4. In preparation of abstracts, authors are urged to refer to Volume 77, Suppl. 1, 1998 issue of Poultry Science for examples of abstract 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 originating outside the United States), and zip code or other postal code, abstract paper, and finally, the five keywords descriptive of the subject.

5. The abstract should give clear, concise information on the problem, materials, procedure(s), method(s) used, results, and conclusions. Statements such as "... will be discussed," etc., should not be used. Short footnotes may be added.

It is recognized that abstracts of some papers for the Extension and Instruction as well as 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 ex-

pects to be in attendance to present the paper. Only 2" × 2" slides may be used.

The Program Committee will consider the author's preference, as well as scheduling constraints, in assigning abstracts by presentation method and section. Authors MUST indicate their section preference, whether the presentation is oral or poster, and whether the presentation should be considered for the Graduate Student Certificate of Excellence. For authors submitting more than one paper, please identify the priority of presentation, should time limits or reassignment of sections become necessary. The Committee will make every attempt to avoid simultaneous presentation, graduate students presenting at the same time as their advisor, or back-to-back presentations unless they are in the same session.

7. An author desiring to present more than one paper should indicate the order of preference to the chair by entering the abstracts via the internet in order of preference, or in the case of paper submission marking in the top margin of abstracts submitted.

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 the disposition of papers as in item 8, 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 the 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 1999 supplement issue of *Poultry Science*. Copies of the abstracts section of the journal will be available by the annual meeting.

11. Reprints of abstracts, following publication in *Poultry Science*, may be purchased at a cost of \$99.00 USD 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 regulations for nominations for honors and awards may be found in the Appendix to the Constitution, Section F, *Poultry Science* 77:1727–1741. 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 15, 1999**. The Awards Committee Chairpersons for 1999 are:

Poultry Science Association, Inc. Research Award—Kirk Klasing, University of California, Dept. of Animal Sciences, Davis, CA 95616; kcklasing@ucdavis.edu

Merck Award for Achievement in Poultry Science—Patricia Hester, 1026 Poultry Bldg., Purdue University, West Lafayette, IN 47907; phester@ansc.purdue.edu

Helene Cecil Leadership Award—Francine Bradley, University of California, 1 Shields Ave., Davis CA 95616; FAX: (916) 752-8960

American Feed Industry Association Award - John Doerr, Dept. of Animal and Avian Science, 3115 Animal Science Center, University of Maryland, College Park, MD 20742; jd29@umail.umd.edu

American Egg Board Research Award—Joseph Hess, Auburn University, 374 Shell Toomer Parkway, Auburn, AL 36830; jhess@acesag.auburn.edu

Purina Mills Teaching Award—D. Michael Denbow, Dept. of Animal and Poultry Sciences, Virginia Tech, Blacksburg, VA 24061; denbowdm@vt.edu

Pfizer Extension Award—Michael Smith, Dept. of Animal Science, University of Tennessee, Box 1071, Knoxville, TN 37901; mosmith@utk.edu

Broiler Research Award—Michael Lacy, Dept. of Poultry Science, 4 Towers Bldg., University of Georgia, Athens, GA 30602; mlacy@uga.cc.uga.edu

Poultry Science Association, Inc. Fellows—Glenn Froning, University of Nebraska, 357 Food Industry Bldg., Lincoln, NE 68583-0919; froning@foodsci.unl.edu

Continental Grain Company Poultry Products Research Award—Shai Barbut, Dept. of Animal and Poultry Science, University of Guelph, Guelph, ON, N1G 2W1, Canada; sbarbut@aps.uoguelph.ca

Poultry Science Student Recruitment Award—Steven Ricke, Dept. of Poultry Science, Texas A&M University, College Station, TX 77843-2472; sricke@poultry.tamu.edu

Maurice Stein Fellowship Award—Scott Russell, Livestock-Poultry Bldg., University of Georgia, Athens, GA 30602; srussell@uga.cc.uga.edu

Sights to See in Arkansas

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SHAWNNA BRANNON
University of Arkansas

There are lots of things to do in Arkansas this summer. This might be a good year to make your trip to the PSA Annual meeting a family vacation and see the sights in one of the prettiest states in the country. Here are just a few of the things that might be of interest to you and your family:

- Take a trip on the Arkansas Missouri Railroad from Springdale for a scenic trip over the Ozarks.
- Bargain Hunters will love shopping the Ozark Factory Outlet Stores at Springdale.
- Eureka Springs, an old-fashioned town nestled in the Ozarks, offers shopping, shows, good food, and family entertainment.
- Adventurers can reach Branson, Missouri, by way of a mere two-hour drive through the scenic Ozarks. Visit Silver Dollar City or one of Branson's famous shows.
- Civil War buffs will enjoy visits to nearby Pea Ridge National Military Park, site of the largest battle fought west of the Mississippi, and Prairie Grove Battlefield State Park where another major battle took place.
- Visitors are welcome at the Harvey and Bernice Jones Center for Families, a sparkling new community and recreation center that offers a computer center, lap and leisure swimming pools, fitness center, ice skating arena, jogging tracks and other activities.
- The Arts Center of the Ozarks, located on Main Street in downtown Springdale, and the Walton Arts Center, located on Dickson Street in Fayetteville, offer theater productions, concerts, visual art exhibits and performing arts presentations.
- Visitors to Northwest Arkansas can enjoy a leisurely canoe trip down one of the areas many rivers, or take a quiet hike through some of the most beautiful terrain in the state.

HOST COMMITTEE CONTACT INFORMATION FOR PSA '99

Contact: **Diana Bisbee**
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University of Arkansas
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dbisbee@comp.uark.edu

See our web site at: www.uark.edu/depts/posc/PSA99.html

Ancillary Scientists Symposium: Skeletal Biology and Related Problems in Poultry

Symposium Chair: Narayan Rath

Saturday, August 7, 1999, 7:00 P.M.

Keynote Address: Biology of Bone Development.

A. H. Reddi, University of California-Davis

Sunday August 8, 1999

8:00-8:15 am Introduction:

M. E. Cook, University of Wisconsin, Madison, WI.

Session I: Cellular and Developmental Biology

8:15-8:45 am Limb Development:

J. Fallon, University of Wisconsin, Madison, WI.

8:45-9:15 am Extracellular Matrix:

S. Velleman, Ohio State University, Wooster, OH.

9:15-9:45 am Limb Organ Culture:

M. Orth, Michigan State University, East Lansing, MI

Session II: Bone Cells and Matrix

10:15-10:45 am Chondrocyte Biology:

C. Farquarson, Roslin Institute, Scotland

10:45-11:15 am Osteoblast/Osteoclast Interactions:

C. V. Gay, Penn State University, PA.

11:16-11:45 am What Has Genetics Taught Us?:

R. Leach, Penn State University, PA.

11:45-12:15 am Eggshell Relations. Mechano-Receptors:

M. Pines, Agricultural Research Organization, Israel.

Session III: Environment, Nutrition, and Bone Health

1:30-2:00 pm Effects of Nutrition:

H. Edwards, University of Georgia, Athens, GA.

2:00-2:30 pm Management:

H. Classen, University of Saskatchewan, Canada.

2:30-3:00 pm Skeletal Strength:

N. Rath, USDA, ARS, Fayetteville, AR

Session IV: Skeletal Diseases

3:30-4:00 pm Osteoporosis in Cage Layers:

C. Whitehead, Roslin Institute, Scotland.

4:00-4:30 pm Osteomyelitis: an Appraisal:

M. Smeltzer, University of Arkansas Medical School, Little Rock, AR.

4:30-5:00 pm Turkey Osteomyelitis Complex:

G. Huff, USDA, ARS, Fayetteville, AR.

5:00 pm

Meeting Summation and Conclusion

Informal Nutrition Conference Visions Of Change In Poultry Science: The Industry, The Science, The Future

(Open Forum with Panel of Speakers)*

Chair: Mamduh Sifri

Sunday, August 8, 1999

National Extension Workshop

Chair: Scott Beyer

Sunday, August 8, 1999

Welcome, Announcements

Scott Beyer, Chair

Washington Update

Richard Reynnells, USDA

Panel: "What is the Future of Production Animal Agriculture at Land Grant Universities — Is it Necessary?"

Overview; Recruitment / Youth Programs;

Alternative Agriculture

Field Research: Successes and Failures

Industry; University

Panel: "Animal Welfare: Making Progress?"

European Situation; Canadian Experience; Animal

Welfarist Viewpoint; United States Efforts

General Questions and Answers, Comments and Announcements

Distance Education: New Solutions to Old Problems?

Symposium Chair: S. L. Pardue

Tuesday, August 10, 1999, 1-3 pm

NetLearning: The Impact of the Internet on Distance Education

Burks Oakley II, Associate Vice President for Academic Affairs, University of Illinois.

Real Problems in the Virtual World

E. L. "Skip" Knox, Office of Information Technology
Boise State University.

Campylobacter as a Food Safety Hazard in Poultry

Symposium Chair: D.E. Conner

Tuesday, August 10, 1999, 3:30-5:30 pm

Program to be named later*

*Please consult the PSA website for further updates to the program as events warrant.

Role of Poultry Products in Enriching the Human Diet with n-3 PUFA

Symposium Chair: Sheila Scheideler

Tuesday, August 10, 1999

Speakers and tentative topics include:

The human requirement for n-3 fatty acids and its role for health.

Artemis Simopolous, The Center for Genetics, Nutrition and Health, Washington, DC.

The enrichment of eggs with n-3 PUFA

Mary VanElswyck, Scientific Affairs OmegaTech, Inc.

Human studies with enriched eggs.

Nancy Lewis, University of Nebraska

Regulation of Testis Function

Symposium Chair: Dr. David Froman

3:30 - 3:40 pm Overview of Testis Function and Semen

Production in Poultry"

David Froman, Department of Animal Sci-

ence,

Oregon State University

3:40- 4:05 pm Central Nervous System Regulation of Gonadal

Development in the Avian Male

Wayne J. Kuenzel, Department of Animal and Avian Sciences, University of Maryland

4:05 – 4:30 pm Effects of Environmental Lighting on Early Semen Production and Correlated Hormonal Responses in Turkeys

Wayne L. Bacon, Department of Animal Science, Ohio State University

4:30 – 4:55 pm FSH and Testis Function in Broiler Breeder Males: Insight Gained From Broilerized

Breeder

Males

John D. Kirby, Department of Poultry Science, University of Arkansas

4:55 – 5:20 pm Spermatogenesis in Commercial Poultry

Species: Anatomy and Control

Ronald Thurston, Department of Animal Science, Clemson University

5:20 – 5:30 pm Questions of the Panel

John D. Kirby Associate Professor, Avian Reproductive Biology, University of Arkansas

Hotels

The following Hotels have been highlighted for PSA99. Contact them directly for reservations.

HOTEL	PHONE	PRICE RANGE	MILES TO PSA99
Holiday Inn	(501)751-8300	\$78.00-\$95.00	Site of PSA99
Hampton Inn&Suites	(501)756-3500	\$74.00	Adjacent to PSA99
Budgetel Inn	(501)751-2626	\$45.95	Adjacent to PSA99
Comfort Inn	(501)751-6700	\$43.00-\$47.00	.6
Days Inn	(501)751-7200	\$55.00-\$75.00	.6
Best Western-Heritage Inn	(501)751-3100	\$55	2
Hartland Motel	(501)756-8300	\$36.00-\$43.00	.8
Holiday Inn Express	(501)444-6006	\$55.00	9
Clarion Inn	(501)521-1166	\$55.00-\$65.00	11

Mention the PSA99 meeting to get rooms from the reserved blocks.

Travel Information

The greater Springdale area is now serviced by the newly opened Northwest Regional Airport (airport code: XNA). To date, American Airlines and TWA are flying directly to this airport. Other carriers are sure to follow. Travel to Springdale also can be accommodated by driving in from airports at Little Rock, Fayetteville, Fort Smith, and Tulsa, Oklahoma.

PSA is securing travel discounts for its members. Members flying directly into Springdale can get reservation discounts on American Airlines. Travelers to Fayetteville or Little Rock can receive discounts on Northwest Airlines. Rental discounts are available from Avis.

Service	Group Number
American Airlines	9389UE
Avis Rent-A-Car (Springdale & Fayetteville)	D005073
Northwest Airlines (departing from North America)	NY453
Northwest Airlines (departing from Europe & Asia)	RB250

Please check the PSA website for further information for use in your travel planning prior to making reservations, as well as program updates.

Contact the Association office for an Exhibit Prospectus or Sponsorship Opportunities Brochure today!

Notice to PSA Members

Be sure to nominate your worthy colleagues in PSA to positions on the PSA Board of Directors. Names may be sent to the Nominating Committee Chair, Hank Classen at Dept. of Animal & Poultry Science, University of Saskatchewan, Saskatoon, SK, Canada S7N 5B5; classen@abyss.usask.ca

PSA Board Service

From Your Business Manager

GREG MARTIN
PSA Business Manager

Happy New Year from association headquarters! We wish you a prosperous and productive year. There have been some changes that have taken place here at the FASS business office. **Jennifer Gavel** has accepted the position of administrative assistant, taking the place of **Dayanita Brooks**. **Mary Swenson** is continuing and expanding her position as manuscript administrator, keeping track of all manuscripts running through the office for FASS member societies. Mary has been a tireless help to me in my transition here, for which I am very grateful. **Ann Mester**, **JoAnna Wisniewski** and **Janet Brown** are continuing in their respective roles of technical editor, information center specialist, and marketing specialist, each making sizable contributions daily.

I would like to thank those of you who have already renewed your membership to PSA. By doing so you have helped pay for the continuance of programs that further the expansion of Poultry Science information here and overseas. If you know of a student or colleague who would benefit from membership in PSA, invite them to join or e-mail the office (psa@assochq.org) and we will send membership forms to the prospective member. I also would like for you to consider contributing to the Individual Sustaining Membership Program. This aids a variety of programs including the Graduate Membership program that introduces the student to the association with no cost or obligation for their first year. Many find the program beneficial enough to renew after the introductory year. The *Poultry Science Resource List*, co-produced with **Richard Reynnells** (USDA) has been completed and will soon be in your department. If you would like a copy contact the office at psa@assochq.org. Non-members will need to pay a \$15 fee for shipping and handling for this publication.

I would also encourage you to

nominate deserving people for PSA awards. This is a fine way to highlight the tradition of excellence in scientific research and service that PSA members are known for. Please be aware that some of the awards require supporting materials for the nomination. Goldenrod-colored nomination forms were included in your October Newsletter envelopes. If you need more forms, contact the PSA office and we will gladly send you extra copies.

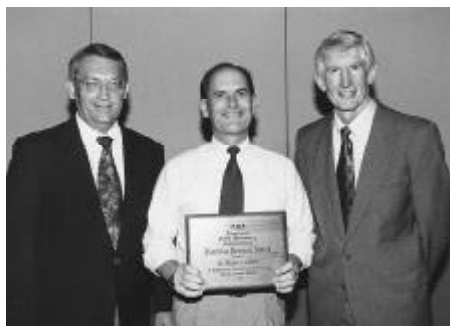
As always, if you have questions or need assistance, please e-mail or give us a call. Thank you.



Posthumous recognition for **Art Mauer** (Wisconsin) was accepted in his memory by his mother and two sisters at the Penn State Meeting.

ERRATUM:

The following photo was omitted from the October 1998 Newsletter account of PSA '98 Award Winners.



Mike Lilburn, OARDC (center), is the 1998 winner of the American Feed Industry Association Award. Presenting the award are **Richard Arnold**, AFIA (left) and **Craig Coon**, University of Arkansas (right).

From Your Newsletter Editor

GLENN CARPENTER
PSA Newsletter Editor

I hope that all members of PSA had an excellent holiday season. I hope your families ate turkey at all of the recent festivities—the turkey industry sure needs the help.

I think that we have an excellent newsletter for the first issue of the last year of the century (or is next year the last year of the century?). President **Don Bell** has provided an excellent series of short topics that have to do with the special symposia at the next annual meeting in Arkansas, the Board of Directors conference calls, and trends in PSA membership. Don is doing a great job in keeping all of us informed on the workings of the PSA administration. **Richard Reynnells** submitted an explanation of the significance of the National Poultry Database, which several of us are working on. There is a copy of the program for the Ancillary Scientist Symposium, for this summer, supplied by **Narayan Rath**. An interesting treatise on which came first, the chicken or the egg, was submitted by **F. G. Silversides**. PSA members from the University of Arkansas submitted several articles to pique our interest and get us all started thinking about this summer's meeting. The list of interesting/important information in this issue goes on, and on.

All of you may not know it, but you all need to pat yourselves on the back. You have done a great job in breeding/nutrition/health/management to create today's meat chicken. A few weeks ago, my wife and I were at the breakfast table admiring our new baby daughter. We talked about how she had grown and changed over her first seven weeks. I picked up a calculator and started pecking at the keys. I figured that if the baby had grown from her initial weight like one of today's commercial broilers, she would weigh nearly six hundred pounds at seven weeks. You all have done a great job of creating today's meat bird, but I am very happy that my little one does not grow at the same rate—six hundred pounds at seven weeks—she would never get a date, never get married and stay on Daddy's feed bill forever!!

Which Came First: The Chicken or the Egg?

F. G. SILVERSIDES
McGill University

Because I work with poultry, three or four times a year I'm asked the question "which came first: the chicken or the egg?". In the past, I've never given it much thought and I've mumbled a response in one direction or the other that was based on logic that I quickly forgot.

The question is usually asked in more of a philosophical than a scientific manner. Having training in genetics and some interest in philosophy, when I was asked the question this summer, the answer suddenly seemed clear from both points of view.

For the purely religious, the answer couldn't be clearer. God said, "Let the waters teem with living creatures, and let birds fly above the earth within the vault of heaven." And so it was. God created great sea-serpents and every kind of living creature with which the waters teem, and every kind of winged creature. God saw that it was good. God blessed them, saying, "be fruitful, multiply, and fill the waters of the seas; and let the birds multiply upon the earth." Evening came and morning came: the fifth day. (Genesis).

According to the literal word of the Bible, winged creatures were created and then sent forth to multiply. Chickens are winged creatures which lay eggs to multiply. According to the Bible, the chicken came before the egg.

For the purely scientific, the answer is just as clear. Darwin claimed that new species are created by mutation which is acted upon by selection, creating gradual change. In Darwin's time, we didn't understand the process of mutation. We now know that mutations are changes in the DNA of an embryonic germ cell, which will develop to form a sperm or an egg. The sperm or egg carrying the mutation combines with the sperm or egg from another individual to form an embryo, which grows into a mutated adult that produces offspring carrying the altered DNA.

If the chicken was produced by a series of mutations in a process of evolution, it was not a chicken until the last mutation. The mutation that produced the first chicken occurred in a "near-chicken". The kind of egg is determined entirely by the female that lays it, so the "near-chicken" laid a "near-chicken" egg carrying the mutated embryo. The first chicken hatched from this egg, then laid the first chicken egg. From a scientific point of view, once again the chicken came before the egg.

From whichever way I look at it, I've concluded that the chicken came before the egg and the next time I'm asked, I have an answer. I hope that these thoughts may help other Poultry Science members.

(Editor's note: Anyone wishing to comment on Dr. Silversides' monograph, please feel free. We need to give equal time to the other side of the issue.)

National Poultry Database Development

RICHARD REYNNELLS
USDA

The National Poultry Database (NPD) is being developed using the process established by the National Dairy Database (NDD). The Agricultural Databases for Decision Support (ADDS) program currently includes databases for dairy, goat, sheep, and swine. The NPD is being developed to support county and State Extension Programs that provide poultry information, educational programs, and support for decision making to a wide variety of audiences. **Nick Zimmerman, Mickey Latour and Forest Muir** developed the initial proposal to further this project.

The NPD committee will review trade journals, professional journals, proceedings, meeting handouts, pamphlets, newsletters, mass-media, or other sources of information. Selected materials will be added as full-text, with no editing, based on committee recommendations. The NPD will be published on the Internet, and in a web enabled CD-ROM. The NPD will be continuously updated on the web with CD-ROMs created as needed.

The NPD structure will be based on the NDD which is comprised of a variety of subject choices (array) and sub-arrays. The decision array will serve as a database browser, with access to a sophisticated search and retrieval engine. Hot buttons will emphasize topics of current societal concerns or that require special consideration. NPD committee members volunteer their time and expertise. A National Leader is the chair of each subject area, with Assistant National Leaders to be in charge of sub-array topics. Financial support will be required from allied industry or industry members for development and maintenance of the NPD, with additional support possible through sales of CD-ROM or Internet access to data. For more information contact any NPD committee member.

Future PSA Meetings
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1999 — University of Arkansas — August 8–11
2000 — Preceding WPSA in Montreal, Canada — August 18–20
2001 — Indianapolis — July 24–28

Arkansas

National Alliance for Food Safety Formed

Twenty universities and the USDA's Agricultural Research Service have joined forces to create the National Alliance for Food Safety (NAFS). The alliance was created along guidelines proposed by University of Arkansas, College of Agriculture, Dean **Charles Scifres** as coordinator of the Food Safety Consortium.

James Denton, Center of Excellence for Poultry Science director, is the UA member of the NAFS board of directors. The NAFS will work with the support of government agencies, industry and consumer groups to enhance confidence in the safety of the food system through research and education.

Participating universities are the three charter members of the Food Safety Consortium (the University of Arkansas, Iowa State University, and Kansas State University) the University of California-Davis, Cornell University, the University of Florida, the University of Georgia, the University of Maryland-Eastern Shore, Michigan State University, Mississippi State University, the University of Nebraska, North Carolina State University, Pennsylvania State University, Purdue University, Texas A&M University, Virginia Tech and State University, Washington State University, the University of Idaho, the University of Wisconsin and Georgetown University.

Graduate Symposium Provides 'Scrimmage' for PSA

The University of Arkansas Poultry Science Graduate Association held its first student symposium at the Center of Excellence for Poultry Science (CEPS) this summer.

The symposium was created to be a sort of "pregame scrimmage" for the August Poultry Science Association meeting. Through this event, nine students gained feedback regarding presentation style and research content in hopes of

fine tuning their presentations for the PSA meeting.

James Denton, CEPS, served as symposium chair and donated awards for the top three finishers. CEPS faculty members **Craig Coon**, **Walter Bottje**, **Jason Emmert**, and **Gisela Erf** served as judges.

Mary Forman, graduate student of **Robert Wideman**, finished first and received a \$500 travel award. **Hang Xie**, graduate student of **Narayan Rath**, finished second and received a \$250 travel award. **Mark Cooper**, graduate student of **Nick Anthony**, finished third and received a \$150 travel award. Forman presented "Renal Responses of Normal and Preascitic Broilers to Systemic Hypotension Induced by Unilateral Pulmonary Artery Occlusion." Xie presented "The Acute Response in Chickens Induced by *Salmonella typhimurium* Lipopolysaccharide." Cooper presented "Effect of Feed Restriction in Broilers raised at simulated High Altitude 1. Ascites Incidence and Weight Gain."

Nutrition Focus of Conference

Amino Acids, practical nutrition applications and world agriculture were a few of the topics covered at the 1998 Arkansas Nutrition Conference at the Fayetteville Clarion Sept. 15-17. The conference was sponsored by the Arkansas Poultry Federation, Arkansas Feed Manufacturers Committee and the University of Arkansas.

Poultry Waste Management Symposium Held

The National Poultry Waste Management Symposium (NPWMS) was held October 19-21 at the Holiday Inn and Northwest Arkansas Convention Center, in Springdale. The symposium covered the latest technology and information regarding poultry waste management from regulations to new technologies. Over 400 scientists, governmental officials and industry decision makers attended this biennial meeting. Proceedings of this meeting are available from either **Richard Reynnells** (202-401-5352) or **John Blake** (334-844-2640). Proceedings are \$30 plus \$5 for shipping and handling. Make checks payable to

the Alabama Poultry and Egg Association, designated for the NPWMS.

National Restaurant Association QA Group Meets at CEPS

The National Restaurant Association Quality Assurance Executive Study Group meeting was held at the University of Arkansas Center of Excellence for Poultry Science October 20 -22. The group discussed quality assurance technical issues and food safety issues.

Co-chairpersons for the meeting were **Farzad Siahmakoun**, quality assurance manager of Wal-Mart Stores, Inc. and **Sandra Chastain**, director of quality assurance for KFC. This was the first time the biannual meeting was held in Arkansas, and also the first time it was held at a university.

USDA Approves UA Further Processing Facility

The University of Arkansas Center of Excellence for Poultry Science processing plant is smokin'. And baking, breading and frying.

The further processing area of the plant was inspected October 30 and approved as an official USDA establishment, which means the plant can further process and sell USDA approved products.

Further processing adds value to meats by taking them beyond the initial processing and cutting. The CEPS facility currently has a Stein oven, fryer and batter-breader machine, and an Alkar smokehouse for further processing. The smoker also has been used by the UA animal science department to prepare ham and bacon that had been processed in their own USDA approved facility. In addition to UA departmental use, outside companies can collaborate with the U of A for use of the facility.

Rodney Wolfe, CEPS processing plant manager, said a USDA official will be on hand any time products are further processed to sell, and this official will inspect the facility periodically. Wolfe said the cooking equipment and USDA presence have converted the processing facility into a hands-on classroom for students of the Dale Bumpers College of Agricultural, Food and Life

Sciences. He also said selling products helps recoup some of the money spent on research.

New equipment will be installed at the processing facility early next year, and the Center of Excellence will seek USDA approval next summer for the initial processing area. With that approval, the poultry science department will be able to process, further process and sell poultry products for general use.

Poultry Science Recipe Book

The University of Arkansas Center of Excellence for Poultry Science is creating a recipe book for all PSA '99 participants. A recipe submission form is available on the world wide web at www.uark.edu/depts/posc/PSArecipes.pdf or www.uark.edu/depts/posc/PSArecipes.html. You may also receive a form by contacting **Shawna Brannon** at the Center of Excellence for Poultry Science, POSC O-114, University of Arkansas, Fayetteville, AR 72701, (501) 575-3192. The deadline for recipes is June 1, 1999, but earlier submissions are encouraged.

California

California Egg Quality Assurance Program (CEQAP) Partners Win Vice President's Award

The partners who developed CEQAP were selected to receive Vice President **Al Gore's** "Hammer Award" for establishing a program to provide safer eggs for California consumers. The Hammer Award is given to federal employees and their state, local and private sector partners who have advanced the Vice President's National Partnership for Reinventing Government by cutting red tape, improving service to customers, and helping build a better and more cost-effective government. The award consists of a \$6 hammer, a ribbon, and a note of appreciation from Vice President Gore, all set in an aluminum frame. **Ernie Gemperele, Mark Oldenkamp, Merlyn Garber, Tony Cobarrubia, David Goldenberg, and Ann Downs** were present to represent the egg industry. The plaque will be displayed at a variety of industry meetings in the future.

Awards were also given to representatives from FDA, CDFA, USDA, APHIS, and California Department of Health Services.

All industry participants in CEQAP should be proud of their role in making this program a success!

California Poultry Industry Federation (CPIF)

The following individuals were given service awards at the CPIF Convention. They were cited for special assistance with the California Poultry Meat Quality Assurance Program: **Ralph Ernst**, UC Poultry Specialist; **Joan Jeffrey**, UC Extension Poultry Veterinarian; **John Voris**, UC Poultry Specialist; **Robert Tarbell**, CDFA, Animal Health, Veterinarian in Charge, Fresno District; **George West**, CDFA, Animal Health, Staff Veterinarian; **David Willoughby**, CDFA, Animal Health, Veterinarian in Charge, Modesto District.

North Carolina

Distinguished Service Award

The North Carolina Poultry Federation bestowed its Distinguished Service Award upon the North Carolina State University Dry Litter Management Training Team, who developed and conducted a training program for the management of dry poultry litter in a series of Nutrient Management Educational Sessions, held across the state during 1997 and 1998. The award was presented to over 20 NCSU Extension Specialists and Agents, who served on the Steering Committee which planned the sessions, prepared textbook course material, and conducted the actual workshop sessions for more than 3000 poultry growers and producers across the state of North Carolina. These producers voluntarily took part in the sessions. The team was led by **Tom Carter**, NCSU Professor of Poultry Science and Extension Specialist. Other members of PSA who played significant roles in this effort include **Michael Wineland, Jesse Grimes, James Parsons, and Glenn Carpenter**.

A significant effort was made in

the development of the training materials for these sessions. These materials have been reviewed by a number of states, and poultry companies, for adoption in their own dry litter nutrient handling training needs. For more information contact Tom Carter at (919)515-5391.

Texas

1998 Back-to-Back National Championships

The Texas A&M University Collegiate Poultry and Poultry Products Evaluation Team won the National Collegiate Poultry Judging Contest held at the University of Arkansas, Fayetteville, Arkansas on November 2-3, 1998. A similar Texas A&M Team also won the Southern Collegiate Poultry Judging contest held at Louisiana State University in April, 1998. The team this fall consisted of **Lisa Canter**, Tomball, TX; **Russell Estlack**, Clarendon, TX; **Jack Higgins**, LaVernia, TX; and **Jason Lee**, San Antonio, TX. In the spring the team consisted of **Jessica Andrews**, Peasanton, TX; **Micah Bishop**, Killeen, TX, Eslack and Higgins.

This fall, the team placed first in the Production and Marketing Divisions of the contest and second in the Chicken and Turkey breeder Division. Lee was high individual in the contest, Canter third high, Eslack sixth high, and Higgins ninth high individual.

The spring semester team consisted of Russell Eslack, second high individual; Jessica Andrews, fifth high individual; Jack Higgins, eighth high individual; and Micah Bishop, twenty-fourth high individual.

The Texas A&M Collegiate Pultry and Poultry Products Evaluation Team is coached by W. F. Krueger, Professor of Poultry Science, who in the past 14 years has coached 12 national championship teams and 8 second place teams.

Students on the judging team must master the fundamental associated with egg grading, poultry meat grading, and quality control factors associated with poultry products. They must also know the fundamentals associated with broiler breeder and turkey selection, egg production characteristics, and be able to identify serious defects and disqualifications in poultry. Not only must they know the fundamentals, but they must demonstrate the use of these fundamentals in collegiate competition against other major

1998 National 4-H Poultry & Egg Conference

GARY S. DAVIS
Extension Poultry Specialist, NCSU

The 1998 National 4-H Poultry and Egg Conference was held on November 19 at the Kentucky Fair and Exposition Center in Louisville, KY. 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 1998 conference included five separate events. 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 or turkey and gave oral presentations on the broiler or 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 Poultry Careers Workshop was also held during the Conference. 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 food sciences. According to the participants' surveys, 95.7% rated the Workshop as excellent. The conference committee greatly appreciates the time, dedication, and efforts of the industry representatives. The workshop was sponsored by Cagels, Inc., Hy-Vac, Inc., Maple Leaf Farms, and the Southeastern Game Breeders and Hunting Preserve Association.

The 144 senior 4-H'ers, representing 24 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 turkey barbecuing contests. Twenty-one teams judged poultry and eggs, and 10 teams competed in the avian bowl. Ten individuals participated in the turkey barbecuing contest, 12 in chicken barbecuing, and 15 in the egg preparation demonstration. **Larry Brown**, of the U.S. Poultry & Egg Association, **Linda Francis**, of Cal-Maine, **Tom Schaffer**, of Purdue Farms, and **Erin Weaver**, representing Tyson Foods, attended the Conference and participated at the awards banquet. Along with the 4-H'ers, about 283 people, including county extension agents, 4-H leaders, chaperones, coaches, and poultry specialists, 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 50 organizations provided financial support for awards. The U.S. Poultry and Egg Association sponsored the awards banquet and provided funding for awards for the judging contest. The chicken barbecuing awards were sponsored by Tyson Foods. 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 egg cookery demonstrations were sponsored by funding from the American Egg Board, Georgia Egg Commission, Louisiana Egg Commission, North Carolina Egg Association, Texas Egg Council, and the United Egg Board. Contributions from Perdue Farms, Goldkist Poultry, Hubbard Farms, Inc., Hy-Line International Co., Chilson's Management Controls, California Poultry Industry Federation, Cryovac Div-W. R. Grace and 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 Virginia Poultry Federation, the Pennsylvania Poultry Fed-

eration, the Texas Poultry Federation, the Ohio Poultry Federation, the Louisiana Poultry Federation, the Tennessee Poultry Federation, The South Carolina Poultry Federation, the Kentucky Poultry Federation, the American Poultry Historical Society, the Wisconsin Poultry Improvement Association, and the Midwestern Poultry Federation for their donations this year to the National Conference.

The California team, coached by **Dr. Jan Duttarar**, won the avian bowl contest. The winning team members were **Buck Cundif**, **Maryanne Duttarar**, **Becky Bryant**, **Helvey**, and **Arial Smoke**. Other top ranking teams were Kentucky (2nd), Minnesota (3rd), Virginia (4th), and Arkansas and Georgia (tied for 5th).

In the cooking contests, **Stephen Brannan** from Arkansas took first place in the chicken barbecue demonstration. **Laron Edwards** from Arkansas took first place in the turkey barbecue competition, and **Kara Thompson** from Alabama won the egg preparation demonstration.

Competition was exceptional in the poultry and egg judging contest this year. In poultry judging, the individual winning the Production Hen division was **Michel Wallace** from Nebraska, and the Nebraska team won the team competition for that division. In the Market Poultry division, **Kevin Saylor** from Maryland won the individual competition, and the Florida team won the team competition. The individual winning the Market Egg division was **William Deeds** from Indiana, and the team competition was won by Florida.

The overall individual champion in the poultry and egg judging contest was **Pebbles Fulford** from Florida, scoring 1,383 point out of a possible 1,500. Florida was the overall team champion in poultry and egg judging, scoring 4,072 points out of a possible 4,500. The Florida team consisted of **Amy Upton**, **Jennifer Upton**, **Pebbles Fulford**, and **Holly Batten**. The Florida team was coached by **Robert Renner, Jr.** Other top ranking teams were Georgia (2nd),

PSA Welcomes These New Members to Our Association!

Yupaporn Chaiseha
University of Minnesota
Saint Paul, MN

Marco Cisneros
Institut of Tropical Medicine
Quito, 17-01-02330, Ecuador

Fernando, G.P. Costa
Universidade Federal Vicosa
Vicosa, MG, Brazil

Christi Davis
University of Maryland
College Park MD

Rachel E. Doerfler
North Carolina State University
Raleigh, NC

Muhammad Iqbal
University of Arkansas
Fayetteville, AR

Thanes Keokamnerd
Clemson University,
Clemson, SC

Brenda D. Kidd
University of Arkansas
Fayetteville, AR

Lisa Kinder
University of Arkansas
Fayetteville, AR

Hakan Kocamis
West Virginia University
Morgantown, WV

Kitogho Mwashighadi
West Virginia University
Morgantown, WV

Carla J. Price
Mississippi State University
Mississippi State, MS

James Skaggs
Virginia Tech
Blacksburg, VA

Fushan Zhang
Penn State University
University Park, PA

Jude Appiah
Ito and Ariga Co, Ltd
Accra, Ghana

C. N. Asagi
Asagi Hatchery, Inc
Honolulu, HI

Christopher M. Ashwell
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Beltsville, MD

Daniel Bercovici
Ajinomoto Biolatina
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Rungthip Burapharat
Central Food Products Co., Ltd
Patumtani, Thailand

Niwat Charoenfuprasert
CP Group
Bangkok, Thailand

Herman Deschuytere
Roeselare, Belgium

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Zinpro Corporation,
Raleigh, NC

Joseph D. Eifert
Virginia Tech,
Blacksburg, VA

Ricardo A. Fabrega
Sarasqueta y CIA
Panama City, Panama

Alwyn Havard
NEDAP AGRI BV
Hengelo, The Netherlands

Luis A. Heredia
Cuernavaca, Morelos, Mexico

Kuo-Hsjung Huang
Charoen Pokphand Enterprises
Taichung Hsien, Taiwan

Cal Jackson
Creighton Brothers
Warsaw, IN

Jorge Jimenez
Ovoplus Del Centro
Mexico City, Mexico

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R. Meijerhof
Hubbard-ISA
Wezed, The Netherlands

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Gifu University Faculty of Agriculture
Gifu, Japan

Piotr W. Ostaszewski
Warsaw Agricultural University
Warsaw, Poland

Narksuwan Panmuang
Chia Tai (China) Investment Company
Beijing, China

Sooren A. Pezeshkian
Telavang, Tehran, Iran

V. Raghavan
Sin Heng Chan (M) Berhad
Selangor, Malaysia

Nilva K. Sakomura
Fac. de Ciencias Agrarias e Vet.
Jaboticabal, Sao Paulo, Brazil

Masoom Shah
Tri Bio Laboratories
A Division of Hoechst Roussel Vet
Gainville, GA

M. Salem Siam Salwa
Animal Production Research Inst
Dokki-Giza, Egypt

Orapin Sukpiriyagul
Betagro Agro-Group
Samutprakarn, Thailand

Sam K. Varghese
Michigan State University
East Lansing, MI

Myung-Ho Yang
Halim & Co, Ltd
Iksan-City, Jeonbuk, Korea (South)

Lisa C. Gazzillo
Virginia Tech
Blacksburg, VA



WPSA: Your International Connection

Who We Are - What We Do

The World's Poultry Science Association (WPSA) has the objectives of promoting the advancement of knowledge of all aspects of poultry science and the poultry industry. This involves helping in the spread and exchange of information amongst people with an interest in the industry, encouraging the promotion of world congresses, regional conferences, and group meetings and cooperating with other organizations in the furtherance of these aims.

The USA Branch is the official arm of WPSA in this country. It holds a meeting each year at the time and place of the annual meeting of the Poultry Science Association.

World Poultry Congresses

Every four years, WPSA sponsors a World's Poultry Congress, which is held in a different country. The last three were held in Japan (1988), The Netherlands (1992), and India (1996). The 2000 Congress will be held in Montreal, Canada.. These congresses provide an opportunity for the USA industry to make contacts for developing international trade. They also give poultry scientists and industry leaders a chance to exchange information on new research and trends in the industry. The USA Branch provides travel grants on a competitive basis to scientists presenting papers at the Congress.

WPSA Lecture

Each year, a special WPSA lecture by one with international stature is given at the meeting of the Poultry Science Association. This is sponsored jointly by the USA and Canadian Branches of WPSA.

World's Poultry Science Journal

This journal is published by WPSA every four months. Because it publishes only review articles, it provides an excellent opportunity for keeping current on subjects ranging from basic poultry science to applied management problems. Members of WPSA receive a subscription to this journal as part of their membership dues.

Personal Contacts

Industry members of WPSA enjoy the chance to interact with industry leaders from other countries to learn of innovations that may be helpful in improving productivity. Members involved in research can meet others who have the same research interests. Contacts made through WPSA also provide opportunities for shared speaking engagements and sabbaticals. The Congress allows students from participating countries to meet one another and scientists to see students in action.

Student Awards

The USA Branch helps sponsor youth activities to increase the interest of our young people in the poultry industry. The USA Branch also sponsors a youth program every four years to help one or more young people to attend the World's Poultry Congress.

JOIN NOW

Let the WPSA be your international connection with poultry scientists and professionals around the world. Join more than 6,000 colleagues in 90 countries. In this global age, you can't afford not to become a member of this organization. Just fill out the attached application and

mail it to the address indicated.

USA Branch: World's Poultry Science Association

Here are my membership dues:
 \$20 (Individual)
 \$48 (Affiliate)*
 \$600 (Life, Individual)
 \$10 (Student)

*Available to organizations and businesses.

Name: _____

Address: _____

City: _____

State: _____

Zip: _____

Office Phone: _____

Home Phone: _____

Fax: _____

E-mail: _____

Job Title: _____

Employer: _____

Student Recommended by: _____

Address: _____

Please check your special interest:

- Nutrition
- Physiology
- Genetics
- Disease
- Management and Environment
- Extension
- Education
- Processing Technology
- Molecular Biology
- Other

Make checks payable to "USA Branch, WPSA" and send to:

Richard H. Forsythe
Secretary-Treasurer
USA Branch-WPSA
P.O. Box 506

Fayetteville, AR 72702-0506

Coming Events!

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March 9-10, 1999

International Symposium on Avian Coccidiosis. Iguassu Falls, PR, Brazil. FACTA-APINCO Foundation on Poultry Science and Technology is the organizing institution. For details, visit <http://www.dglnet.com.br/facta> or write: facta@dglnet.com.br

March 11-12, 1999

Maryland Nutrition Conference. Renaissance Harborplace Hotel, Baltimore, MD; 410-547-1200. Contact person is John Doerr 301-405-5782; jd29@umail.umd.edu

March 29 - April 2, 1999

1999 LCI Annual Meeting. DoubleTree Hotel, Downtown, Nashville, TN. For details, contact the Livestock Conservation Institute.

April 24, 1999

Managing Rapid Growth in Broilers and Turkeys. American College of Poultry Veterinarians Workshop, held prior to the 48th Western Poultry Disease Conference. Landmark Hotel and Convention Center, Vancouver, BC, Canada. Pre-registration is USD \$125. For information contact Lina Kayiktez, Conference and Event Services, 1 Shields Avenue, University of California, Davis, CA 95616; 530-757-3331; 530-757-7942; confandeventsSVCS@ucdavis.edu

May 25-27, 1999

Multi-State Poultry Feeding and Nutrition Conference. Marriott Hotel, Indianapolis, IN. Sponsored by Michigan State University, The Ohio State University, Purdue University, the University of Illinois at Champaign-Urbana, and the University of

Kentucky. For information, contact: Tom Robertson, Division of Conferences, Purdue University, 1586 Stewart Center, Room 116, West Lafayette, IN 47907-1586; 800-359-2968.

June 15-18, 1999

4th East/West Feed Industry Conference & Exhibition. Hilton Hotel, Prague, Czech Republic. Contact: Roger Gilbert, International Feed Industry Federation, 214 Prestbury Rd., Cheltenham, Glos. GL52 3ER, U.K.

July 9-16, 1999

International Workshop and Mini-Symposium on Rapid Methods and Automation in Microbiology XIX. Kansas State University, Manhattan, KS 66506. For information, visit the web site <http://www.dec.ksu.edu/dce/conf/microbiology> or contact Daniel Y. C. Fung, Director of the workshop, at 785-532-5654; Fax: 798-532-5681; dfung@oz.oznet.ksu.edu

August 8-11, 1999

88th Poultry Science Association Annual Meeting. University of Arkansas. Holiday Inn Conference Center. Springdale Arkansas. See information this newsletter.

August 15-19, 1999

12TH European Symposium on Poultry Nutrition. Sponsored by the Dutch Branch

WPSA. Contact: Secretariat 12 European Symposium on Poultry Nutrition (WPSA) c/o Wageningen Agricultural University, Animal Nutrition Group, Dr. Rene' P. Kwakkel, PO Box 338, 6700 AH Wageningen, The Netherlands, +31 317 484082; Fax: +31 317 494260; WPSA_nutr99@LX1.zod.wau.nl.

September 19-24, 1999

20th International Congress of Refrigeration. Sydney Convention Centre, Darling Harbour, Sydney, Australia. For information contact: ICR99 Secretariat, 52 Roslyn Street, West Melbourne, Vic, 3003 Australia. +61-3-9328-2399; Fax: +61-3-9328-4116; icr99@airah.org.au.

October 3-8, 1999

10th World Congress of Food Science Technology. Sydney, Australia. For information contact: AIFST Inc., PO box 1493, North Sydney, NSW 2059 Australia. +61-29-954-4499; Fax: +61-29-954-4327; iufost10@foodaust.com.au

October 20-22, 1999

19th Food Microbiology Symposium and Workshop. U. Wisconsin, River Falls. For information, contact P. C. Vasavada, Animal & Food Science Dept., University of Wisconsin, River Falls, WI 54022; 715-425-3150; Fax: 715-425-3372; Purnendu.C.Vasavada@uwrfr.edu

August 20-25, 2000

XXI World's Poultry Congress. Montreal's Convention Centre, Montreal, Quebec. Contact: Rosaleen Rinsler, WPC 2000 Congress Secretariat, Events International Meeting Planners Inc.; 759 Victoria Square, Suite 300, Montreal, Que., Canada, H2Y 2J7.

1999 FASS Congression Science Fellowship

The Federation of Animal Science Societies is accepting applications for its next annual Congressional Science Fellowship. The person in this position will work as a Legislative Assistant on a Congressional Committee or on a Congressional Staff. Ph.D. in an area of food animal science required. Recent graduates as well as those established in their careers are encouraged to apply. The Fellowship is affiliated with the American Association for the Advancement of Science's Congressional Science and Engineering Fellowship Program. Applications are due **February 15, 1999**; request further information and application instructions from FASS Congression Science Fellow Program, 1111 North Dunlap Avenue, Savoy, IL 61874, (Telephone 217/356-3182, Fax 217/398-4119, e-mail: fass@assoqh.org). EOE