



# newsletter

VOLUME 23

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JULY 1999

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## From Your President

**DON BELL**  
PSA President

It's been said that time goes fast "when your having fun", "trying to finish a book by the publisher's deadline", "getting ready to retire", "serving as PSA's



As your President, it has been a real honor working with your Board, our many committees, and individual members. It always amazes me how dedicated our membership is to our Association, but even more so, how individuals can find time to do more and more with the time available to them.

I hope each and every one of you will take a few days off in August to attend your Annual Meeting hosted by **Jim Denton** and his staff at the **University of Arkansas Center of Excellence for Poultry Science**. As you know, this year's meeting will be held in Springdale, Arkansas with activities scheduled from Friday, August 6 (Board of Directors meeting)

through Wednesday, August 11. It couldn't be more centrally located.

In reviewing the program, I'm sure you will agree with me, "This will be one of our best ever Annual Meetings for professional and personal growth and for the camaradery with our associates in PSA". I've asked **Greg Martin**, PSA's business manager, to provide me with a "brief outline" of this year's program and activities" and he sent me an eight page overview of events and activities. Obviously, our Program Committee, chaired by **Murray Bakst**, and our Host Committee, co-chaired by **Bill Huff** and **Diana Bisbee**, have been busy and have done their work well.

You will see more details about the program and scientific presentations in mailings and in reviewing our website Annual Meeting pages ([www.psa.uiuc.edu](http://www.psa.uiuc.edu)). You can schedule your activities with the help of Greg Martin's "cut and paste" procedures (see elsewhere in this letter for details).

Activities start on Friday, August 6 and Saturday, August 7 with the Board of Director's meeting. The Ancillary Scientist's Symposium gets under way on Saturday evening, August 7 with a wine and cheese reception and a keynote address by **A. H. Reddi**, Univ. CA-Davis, Sacramento, CA. Registration for the Annual Meeting begins on Saturday afternoon.

On Sunday, August 8, the Ancillary Scientist's meeting on *Skeletal Biology and Related Problems in Poultry* will be

*(continued pg 2)*

NEWSLETTER  
Glenn H. Carpenter, Editor  
Vol. 23, No. 3 July 1999

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1111 N. Dunlap Avenue  
Savoy, IL 61874

held. We're looking forward to this excellent program co-hosted by **Narayan Rath**, USDA-Fayetteville and **Roland Leach**, Penn State.

Separate workshops and symposia will be held concurrently (unavoidably) with the Ancillary Scientist program. The National Extension workshop, chaired by **Scott Beyer**, Kansas State University, meets on Sunday morning and **Mamduh Sifri**'s Infomal Nutrition Conference, *Visions of Change in Poultry Science: The Industry, The Science and The Future*, will meet in the afternoon.

On Sunday evening at 6 pm, our Opening Session speaker will be **Bill Lovette**, President, Tyson International Group, speaking on *Implications of a Global Poultry Market in the Next Decade*. We welcome Bill to our meeting and look forward to his comments. For the opening exercise, we'll all be transported to The University of Arkansas Center of Excellence for Poultry Science to hear Mr. Lovette and for our Ice Cream Social sponsored by **Elanco**, and a tour of the Center.

Besides the scientific sessions (8 separate sessions with more than 250 papers), four additional symposia, and 150 poster presentations, look for the **Job Resources Center**, the **Commercial Exhibits**, and the **visiting areas** which allow you a chance to meet with your colleagues in smaller

discussion groups. Special events are plentiful and varied. These include: spouses programs, youth and teen activities, a fantastic Southern Barbecue on Monday evening, a Graduate Student Fish Fry and Dance on Tuesday evening, alternative evening programs on Tuesday (Passion Play and Pine Mountain Jamboree Country Music Show), and a variety of special meetings (luncheons) for departments and committees.

The WPSA Lecture is scheduled for Wednesday at 1 pm and we're very fortunate to have **Bruce Sheldon** from CSIRO, NSW, Australia speak to us on *Research and Development in 2000: Directions and Priorities for the World Poultry Science Community*. This presentation will be followed at 2:15 pm with the Association's Annual Business Meeting. All members are encouraged to attend to participate in the business aspects of PSA and to elect officers for the coming year.

The final activity of the Annual Meeting will be the reception and Awards Banquet. We have an outstanding group of awardees this year and we all want to be there to congratulate them on their accomplishments. New officers will be announced and installed and the Association's Presidential gavel will be turned over to a very capable individual - **Ed Moran** of Auburn University.

It's been a pleasure serving you, and I'll continue on the Board in the year 2000 as your Immediate Past President.

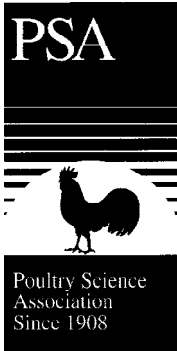
## Tom Newman International Memorial Award 1999

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**N**ominations are being sought for the 1999 Tom Newman International Memorial Award, which is presented by the British Poultry Breeders and Hatcheries Association. The Award, which was instituted in 1949, comprises a bronze medal and £500. The presentation is made to the living author(s) who, in the opinion of the judges, has made the most significant research contribution, in any branch of science, which will benefit poultry husbandry. The submission, which should be in English or have an English summary, should comprise a copy of a published paper on a single research topic together with a supporting case from the nominator giving additional information about the nominee and setting the paper in context. The paper must have been published within the last five years. The supporting case should not exceed one page, and no self-nominations will be accepted.

Nominations should be sent to **John Walker**, BPBHA Ltd, 7<sup>th</sup> Floor, Imperial House, 15-19 Kingsway, London WC2B 6UA. Tel: +44 (0) 171 2409889. Fax: +44 (0) 171 2407757.

E-mail: john.walker@bpmf.co.uk.

The closing date is 17 September 1999, and the Award will be presented at the BPBHA Awards Ceremony at the Institute of Directors, Pall Mall, on 25 November 1999.

	<p><b>President</b> Donald D. Bell Cooperative Extension University of California Highlander Hall Riverside, CA 92521 909/787-4555 FAX 909/787-7251 don.bell@ucr.edu</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 lcarring@facstaff.wisc.edu</p>	<p><b>Directors</b></p>	<p>Robert F. Wideman University of Arkansas 501/575-4397 FAX 501/575-3026 rwideman@comp.uark.edu</p>
	<p><b>First Vice President</b> Edwin T. Moran, Jr. Dept. of Poultry Science Auburn University Auburn University, AL 36849 334/844-2617 FAX 334/844-2641 emoran@acesag.auburn.edu</p>	<p><b>Past-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 classen@abyss.usask.ca</p>	<p>Anthony J. Pescatore University of Kentucky 606/257-7529 FAX 606/323-1027 apescato@ca.uky.edu</p>	<p>Carl M. Parsons University of Illinois 217/333-8774 FAX 217/333-7861 poultry@uiuc.edu</p>
<p><b>Second Vice President</b> William W. Saylor College of Agricultural Sciences University of Delaware 133 Townsend Hall Newark, DE 19717 302/831-2502 FAX 302/831-6758 bsaylor@udel.edu</p>	<p><b>Business Office</b> Gregory P. Martin 1111 N. Dunlap Ave. Savoy, IL 61874 217/356-3182 FAX 217/398-4119 gregm@assoqh.org</p>	<p>John A. Proudman USDA/ARS/GGPL 301/503-8094 FAX 301/504-8546 johnp@pplg.arsusda.gov</p>	<p>Mamduh Sifri ADM Animal Health/Nutrition Division 217/231-2282 FAX 217/231-2335 msifri@moorman.com</p>	

# PSA 1999 Individual Sustaining Members

.....

As of June 7, 1999

## GOLD (\$100.00 or more)

George H. Arscott  
J. James Bitgood  
Roland Chavez  
Henry M. Engster  
Andrew F. Giesen  
Melvin G. Greeley  
John W. Hardiman  
Magdy Hassan  
Harlan W. Hochstetler  
Roland K.C. Low  
Eddie Loyd  
Edwin T. Moran, Jr.  
Yukio Nakata  
Walther H. Ott  
A. Gregario Rosales  
Jerry L. Sell  
Hidesuke Karl Sera  
David C. Snetsinger  
Scott W. Spreen  
Ralph H. Stonerock  
Robert A. Swick  
Gilbert A. A. van Putte

## SILVER (\$50.00 or more)

J. O. Anderson  
Louis C. Arrington  
Mary M. Beck  
Donald D. Bell  
Hans H. Cheng  
R. J. Chernos  
Henry L. Classen  
Donal P. Conway  
Mark E. Cook  
Peter R. Ferket  
Glenn W. Froning  
Henry L. Fuller  
Glenn Stuart Geiger  
Richard W. Gerry  
Bruce Glick  
N. Roy Gyles  
Hobart R. Halloran  
James A. Harper  
Charles H. Hill  
William E. Huff  
Nipat Jiravangsanont  
Harry J. Konen  
Yen-Pai Lee  
James J. Miner  
Edward C. Naber

William J. Owings  
Rodolfo O. Romano  
Nelson Ruiz  
Takashi Sakaida  
William W. Saylor  
Keith R. Schaefer  
Karel A. Schat  
Robert W. Schwartz  
Thomas J. Sexton  
F. Barry Shaw

## BRONZE (\$25.00 or more)

Albert Adams  
Dong Uk Ahn  
William A. Aho  
Daniel K. Andrews  
Victor Arvat  
Dori Carlos Barbieri  
Robert L. Bickford  
Francine A. Bradley  
John T. Brake  
Albert Wade Brant  
Tom Bryan  
Fernando Capela E Silva  
Lyndon B. Carew  
David D. Caveny  
June DeGraft-Hanson  
Florencio Eusebio  
Colin Fisher  
David Galili  
Edward W. Glazener  
Paul Griminger  
Melvin L. Hamre  
Reed S. Hansen  
Virgil W. Hays  
Fredric W. Hill  
Scott W. Hinners  
Robert L. Hogue  
John R. Hunt  
Donald W. Jeannoutot  
Leo S. Jensen  
Chang Won Kang  
Wayne J. Kuenzel  
James E. Marion  
Louis E. Marrett  
Gregory P. Martin  
Greg F. Mathis  
Marvin R. McClung  
Takako Murano  
Talmadge S. Nelson  
Sally L. Noll  
Mary Ann Ottinger  
Enrico Padoa  
John A. Proudman  
William H. Revington  
Richard D. Reynnells  
James S. Rock  
Arnold S. Rosenwald  
Ernest Ross

Paul H. Sammelwitz  
Sheila E. Scheideler  
Simon M. Shane  
George M. Speers  
Paul D. Sturkie  
Ronald J. Thurston  
Nickolas G. Zimmermann

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

## Western Poultry Disease Conference - Vancouver B.C. April, 1999

Some 300 poultry veterinarians from the Western hemisphere attended a four day conference in Vancouver, British Columbia in April. **Ed Moran** and **Henry Classen** were invited speakers at the well-attended preconference session on *Managing Rapid Growth*. Don Bell presented a paper on "Electronic Publishing and the Poultry Science Association" and welcomed the audience to apply for membership in our Association.

PSA currently has approximately 114 veterinarians as members along with 172 Canadian memberships and 1,017 individual and institutional members from other foreign countries.

### DEADLINE FOR ITEMS FOR PSA NEW SLETTER

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The deadline for items to be included in the October 1999 issue of the *PSA Newsletter* is **Sept. 10, 1999**. Send items to *PSA Newsletter*, 1111 N. Dunlap Ave., Savoy, IL 61874 (phone 217/356-3182; FAX 217/398-4119); 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

## Welcome to Arkansas!

### **JAMES DENTON**

Director - Center of Excellence in Poultry Science

The faculty, staff and students at the University of Arkansas look forward with great anticipation to your arrival this summer. We believe that our efforts in planning a memorable program for the youth and spouse activities and tours will result in an enjoyable experience for everyone. Details for these events are contained in the registration materials.

The site for this year's Barbecue is the historic Prairie Grove Battlefield Park. The Park is a great atmosphere for the dinner, complete with an educational museum, playground for children, pony rides for the small ones and carriage rides for the "not so small". Tangles the clown will provide balloon art and local artisans will also be there to display Ozark Mountain Crafts. The opening session will feature Mr. **Bill Lovette**, President of Tyson Foods International Group. He will address the "Implications of a Global Poultry Market in the Next Decade". This topic should stimulate lively discussion given the critical importance of the evolving reliance on foreign trade by the poultry industry.

Following the opening session the Ice Cream Social will be held on the front lawn of the John W. Tyson Building, which houses the faculty and staff of the Poultry Center. This will give us the opportunity to showcase our new home on the University of Arkansas campus and provide tours to our friends and colleagues. We are extremely fortunate to have this marvelous teaching and research facility and want to share our excitement with the entire Poultry Science Association family. Our Graduate Student Association is also caught up in the enthusiasm by hosting the first ever PSA Graduate Student cookout on Tuesday evening.

The state of Arkansas has received a lot of attention during the past seven years for various reasons. The Northwest corner of the state is one of the most beautiful areas in the U.S. and one of the best kept secrets. It is home to several of the largest poultry companies in the nation, including Tyson Foods, George's, Simmons Foods, Peterson Farms, Cobb Vantress, Cargill Turkey and Cal-Maine Egg, as well as the largest retailer in the U.S., Wal Mart. The area is one which is a classic case study of the great contributions to the economy made by agriculture which resulted in the initial development of the area. Yet it is also one which illustrates the need for balancing environmental and water quality issues against economic development in an area which is becoming increasingly urban with a total population of approximately 300,000. The area is noted for its beautiful rivers, including the White and Illinois, as well as Beaver Lake and Bull Shoals Lake in Arkansas and Table Rock Lake in Missouri. It is also home to many housing and retirement communities with over 25 golf courses.

The impact of the poultry industry is noted throughout the entire state with complexes in the Western, Central, Southern, North Central and River Valley areas. The state of Arkansas is the largest poultry state in the nation, ranking second in broiler, third in turkey and eighth in table egg production. The economic contribution of the poultry industry to the state economy is in excess of \$2.58 billion annually which accounts for approximately 45% of the annual agricultural income in the state.

The Poultry Science Program at the University of Arkansas has experienced phenomenal growth during the 7 years since we hosted the 1992 annual meeting of the Poultry Science Association. The hardy group of 12 faculty members who comprised the Department of Poultry Science that year have now grown to 22 members plus 5 USDA scientists for a total of 27 faculty members. The only negative we experienced in 1999 was the untimely death of **Dr. Kirk Skeeles** while visiting China. We anticipate the hiring of four additional faculty members during the next year plus Dr. Skeeles' replacement for a total of 32 faculty members in the Poultry Center. We are very excited to share the story of our growth and have the chance to welcome you into our "new home" to visit our new facilities. We hope to make the experience of PSA 1999 one which will be the most enjoyable ever.

## Tips on Using the Online Annual Meeting Program

The scientific program to PSA '99 can be found at [www.psa.uiuc.edu/meet/psa99/program99.html](http://www.psa.uiuc.edu/meet/psa99/program99.html). To keyword search the entire program, use the "find" function of your browser (control + F on most programs). A popular use of the online program is the creation of a custom itinerary for use during the meeting. To use, highlight the paper you wish to see and "copy" the text (control + C on most programs) and then "paste" the text (control + V on most programs) into your favorite text editor and print. Section titles and other headings can be copied as well.

## Career Resource Center

As a continuing service to its membership, the association will be hosting a career center, where position announcements and resumes will be posted. Over forty CV's & resumes were posted last year. Institutions can request packets of resumes from the Association, by contacting us. Members of the Association can send in their resumes now for inclusion in institutional packets and posting at the meeting. Send 15 copies of your resume to PSA Career Center - CV's, 1111 N. Dunlap Ave., Savoy, IL 61874. Position announcements to be posted during the meeting will be online in a special edition of the placement center one month prior to the meeting at no cost. Send the position opening to PSA Career Center - Positions, 1111 N. Dunlap Ave., Savoy, IL 61874.

An interview room with two interview cubicles will be available on a first come, first served basis. A signup sheet for reservation of a cubicle will be posted on the door to the room.

## Informal Nutrition Symposium

### VISIONS OF CHANGE IN POULTRY SCIENCE: THE INDUSTRY, THE SCIENCE AND THE FUTURE

Chair: Mamduh Sifri, ADM Animal Health and Nutrition  
Symposium Team: Roslina C. Angel, Lynn G. Bagley, Roy Brister, Nicholas M. Dale, and Henry M. Engster

Sunday, August 8, 1999 1:00 p.m. – 5:00 p.m.  
Northwest Arkansas Convention Center/Holiday Inn  
John Q. Hammons Hall III  
Springdale, Arkansas

- 1:00 p.m. Decisions and Indecisions in Poultry: Science and Practice  
*Mamduh Sifri, ADM Animal Health & Nutrition*
- 1:15 p.m. Role of Research in the Poultry Industry  
*Don Jackson, Seaboard Farms*
- 1:45 p.m. Integration and Application of Technical Knowledge:  
A Practitioner's Viewpoint  
*Bob Galbraith, Cargill, Inc.*
- 2:15 p.m. Matching College Graduates with Future Needs in the  
Poultry Industry  
*Russell Tooley, Tyson Foods, Inc.*
- 2:45 p.m. Break
- 3:10 p.m. Vision for the Future in the Poultry Industry  
*Randy Day, Perdue Farms, Inc.*
- 3:45 p.m. Adoption of New Technologies in the Poultry Industry  
*David Calabotta, ANH-TECH, Inc.*
- 4:15 p.m. Conclusions, Recommendations and Visions of Change in  
Poultry Science  
*Alan Emsley, International Agricultural Consultant*
- 4:30 p.m. Discussion
- 5:00 p.m. Adjourn with a Better Perspective of the Poultry Industry  
and its Future Needs

Contact:

Dr. Mamduh Sifri  
ADM Animal Health & Nutrition  
1000 North 30<sup>th</sup> St  
Quincy, IL 62305-3115  
Ph: 217-231-2281  
Fax: 217-231-2335  
E-Mail: [msifri@moorman.com](mailto:msifri@moorman.com)

## The final slate of nominees for PSA Board election is as follows:

### SECOND VICEPRESIDENT

Murray R. Bakst - USDA/ARS (Beltsville)

James David May - USDA/ARS/SCPRL (Mississippi State)

### DIRECTOR 1

Billy M. Hargis - Texas A&M University

Michael P. Lacy - University of Georgia

### DIRECTOR 2

Wayne J. Kuenzel - University of Maryland

E. Ernest M. Pierson - Finnfeeds International Inc (Wentzville, MO)

### Murray R. Bakst

**Murray R. Bakst** graduated from the University of Georgia and has been an avian reproductive physiologist with the Agricultural Research Service (ARS), USDA for the past 22 years. Here he gained international recognition in the areas fertilization, early embryonic development, oviductal sperm storage and transport, and artificial insemination technology. To date, he has authored or co-authored over 145 scientific publications including journal articles, book chapters, proceedings, and trade journal articles. In addition, he has received over 75 invitations to give seminars, and participate in national and international meetings sponsored by the poultry industry, academia, and professional organizations. Of particular significance is that he was the principal organizer and senior author of the *Proceedings - First International Symposium on the Artificial Insemination of Poultry*, and its companion laboratory manual, *Techniques for Semen Evaluation, Semen Storage, and Fertility Deter-*

*mination*. For this work, and past research Dr. Bakst was recipient of the National Turkey Federation Research Award in 1994.

Other honors/recognition for his work in the field of poultry reproduction include recipient of The George A. Nicholas Memorial Fellowship” provided by Cuddy International Corporation, member of the National Avian Genetic Resources Task Force, member-elect to the International Committee on Avian Anatomical Nomenclature, and adjunct faculty member in the Department of Poultry Science, North Carolina State University. In addition, Dr. Bakst has been the recipient of USDA Certificates of Appreciation for participation in USDA-sponsored affirmative action and outreach programs.

From an administrative perspective, Dr. Bakst served details as Acting Associate Area Director in the Midwest Area within the ARS and a second detail as an Acting Laboratory Director, Avian Diseases and Oncology Laboratory (ARS, East Lansing, MI). For his leadership in East Lansing Dr. Bakst received the USDA Certificate of Merit Award.

Dr. Bakst has been active in both FASS and PSA. As a member of PSA, Dr. Bakst served in the following capacities: Committee on Animal Care (1987-90; Chair, 1990); Representative to AAALAC, International (1989-98); Ad Hoc Ancillary Scientists’ Committee (1992-97) and co-organized, “Symposium on Genetic Selection - Strategies for the Future” (1996); National Turkey Federation Research Award Committee (1996-98); co-founder and first chair of the Helene C. Cecil Leadership Award Committee; Physiology Section Chair, PSA `97; Scientific Programme Committee (Reproduction and Breeding Technology), World’s Poultry Congress - Montreal (August 2000); and, Program Chairman, PSA `99 (1998-99).

### James D. May

**James D. (David) May** is Research Leader for the USDA Agricultural Research Service, Poultry Research Unit, located at Mississippi State, Mississippi.

The Unit’s six scientists conduct research on the production environment, mycoplasma diseases, and waste management. He received an MS from Mississippi State University under Bruce Glick and a PhD in physiology from North Carolina State University under Charles Hill. He has been a scientist for ARS since 1969 and was Research Leader for the Poultry Research Unit at Georgetown, Delaware, from 1978 to 1983. His research has been primarily in environmental physiology with emphasis on feed intake, gut clearance, and the thyroid.

Dr. May has been a member of the Poultry Science Association since 1963 and served Poultry Science journal for two terms as associate editor in physiology and reproduction. He was the general program chair for the 1990 meeting. Dr. May is Past President of the Southern Poultry Science Society and is currently Vice President of the U.S. Branch of WPSA for a term that ends in 2000. He is a member of the American Physiological Society and is adjunct Professor of Poultry Science at Mississippi State University.

### Billy M. Hargis

**Billy M. Hargis** received his undergraduate education at the University of Minnesota (B.S. 1980), his Master of Science Training at the University of Georgia (Poultry Science, 1983) and his D.V.M. and Ph.D. training at the University of Minnesota (Ph.D. 1987 under Dr. Mohammed El Halawani). Since 1987, Dr. Hargis has been a faculty member in the Departments of Veterinary Pathobiology and Poultry Science, where he currently holds the position of Professor. Dr. Hargis teach heavily in the undergraduate poultry science program and within the veterinary training at Texas A & M. He has an active research program in the area of food safety with interests in poultry immunology and endocrinology. During the last 11 years, Dr. Hargis has advised or co-advised more than 45 M.S. and Ph.D. students and has published numerous papers relating to poultry health and physiology.

### Michael P. Lacy

**Michael P. Lacy** is a Professor in the Department of Poultry Science at the University of Georgia. Dr. Lacy received his Ph.D. from Virginia Tech in 1985 and joined the faculty at UGA the same year. His primary assignment is in extension where he works in the area of broiler management. His current interests include management of broilers in hot climates, poultry house ventilation and mechanical harvesting of broilers.

Dr. Lacy received the PSA Pfizer Extension Award in 1994. In addition, he was a recipient of the National Association of Agricultural County Agents Achievement Award in 1993, and the Walter B. Hill Award for Excellence in Public Service in 1996.

A member of PSA since 1983, Dr. Lacy has served the association as an Associate Editor, Physiology Section; Section and Session Chair, Extension and Instruction; and Session Chair, Environment and Management. He has chaired the Broiler Research Award Committee, the Pfizer Extension Award Committee, and the Resolutions Committee. Dr. Lacy is also a member of the Southern Poultry Science Society, World's Poultry Science Association, Sigma Xi and Epsilon Sigma Phi.

### Wayne P. Kuenzel

**Wayne J. Kuenzel** is a Professor of Poultry Physiology, Department of Animal and Avian Sciences, University of Maryland with appointments in research and teaching in the areas of avian physiology and neurobiology. He joined the faculty at Maryland in 1974 after completing a postdoctoral fellowship in the Department of Poultry Science at Cornell University from 1971-74. Prior to that he served in the U.S. Army Medical Service Corps and received a Ph.D. in Zoology from the University of Georgia.

Dr. Kuenzel has been an active member of the Poultry Science Association since 1976. Past service to the association has included Associate Editor, *Poultry Sci-*

*ence*, 1979-1985; PSA Annual Meeting Physiology Section Chair, 1991; and Judge, Graduate Student Oral and Poster Presentations and Chair, Physiology Sessions on several occasions. In addition, he organized two symposia that were held at PSA Annual Meetings. Awards received from the Poultry Science Association include a Purina Teaching Award, 1988 and a Merck and Co. Award for Achievement in Poultry Science, 1998.

### E. Ernest M. Pierson

**E. Ernest M. Pierson** is a native of Arizona and received a B.Sc. in Agriculture from the University of Arizona. He later obtained a M.S., in Poultry Nutrition from Virginia Polytechnic Institute and State University and a Ph.D. in Avian Physiology from Auburn University.

Dr. Pierson has held nutritionist, research and technical positions with Central Soya, Monsanto Company, and Novus International, Inc. He is currently the Manager of Technical Service for North, South and Central America for Finnfeeds International. In addition to the Poultry Science Association, he is an active member of numerous professional societies including the Southern Poultry Science Society, AFIA, World's Poultry Science Association (USA Branch), St. Louis Academy of Science, Gamma Sigma Delata Honorary Society, Alpha Zeta Agriculture Scholastic Fraternity and Alpha Gamma Rho Social/Professional Fraternity.

Dr. Pierson's objectives in running for Director of the Poultry Science Association are to focus on ways to increase membership in the society and the industry; develop programs which encourage the professional and personal development and growth of members; explore ways to increase the educational value of the scientific meetings; and encourage dialogue with other societies/groups leading to concrete actions.

Dr. Pierson is married and has two children.

## Exhibitors

Alltech, Inc.  
Alternative Design Manufacturing  
ARPAS  
Biosentry  
Brill Corporation  
Colorado Quality Research, Inc.  
FASS  
Fats and Proteins Research Foundation  
Griffin Industries, Inc.  
Heartland Animal Health  
Isogen (A Monsanto Company)  
Jones-Hamilton Company  
National Cottonseed Products Association  
Omega Protein  
PSA  
Roslin Institute  
Star-Labs  
WPSA

## Annual Meeting Donors

### GOLD

(\$5000 - \$11999)

Novus International, Inc.  
Roche Vitamins, Inc.

### SILVER

(\$2000 - \$4999)

BASF  
Pfizer  
Optimum Quality Grains/Pioneer JV

### BRONZE

(\$1000 - \$1999)

Alltech, Inc.  
Archer Daniels Midland Co.  
BioSentry  
Cobb-Vantress  
Hoechst Roussel Agri. Vet.  
Hubbard Farms  
Hy-Line International  
Hybrid Turkeys/Euribrid  
IMC-Agrico  
O.K. Industries  
Poultry Litter Treatment

### DONOR

(\$500 - \$999)

Alpharma, Inc.  
Degussa  
DuCoa  
Flax Council of Canada  
Finnfeeds  
Kemin Industries

### FRIEND

(up to \$500)

Embrex, Inc.  
Jones Hamilton  
Perdue Farms, Inc.  
Water Tech, Inc.

Donors as of June 9, 1999.

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## ANCILLARY SCIENTISTS SYMPOSIUM: SKELETAL BIOLOGY AND RELATED PROBLEMS IN POULTRY

Co-Chairs: Narayan Rath, Roland Leach  
August 7-8, 1999 - John Q. Hammons Hall I

Saturday, August 7, 1999

5:30-6:45 pm Reception

7:00 pm *Keynote Address:* Bone morphogenetic protein and genetic control of skeletal development.  
A. H. Reddi, University of California-Davis, Sacramento, CA

Sunday, August 8, 1999

8:00-8:15 am *Introduction:* Poultry Skeletal Problems:  
M.E. Cook, University of Wisconsin, Madison, WI

### Session I: Cell and Developmental Biology

8:15-8:45 am Chick limb development: A model system to study patterning and morphogenesis.  
J. F. Fallon, University of Wisconsin, Madison, WI

8:45-9:15 am Potential role of the extracellular matrix in skeletal development.  
S. Vellman, Ohio State University, Wooster, Ohio

9:15-9:45 am Cartilage turnover in embryonic chick tibial explant cultures.  
M. W. Orth, University of Michigan, East Lansing, MI

### Session II: Bone Cells and Matrix

10:15-10:45 am Chondrocytes and longitudinal growth of bones.  
C. Farquarson, Roslin Institute, Edinburgh, Scotland

10:45-11:15 am Perspectives on osteoblast and osteoclast function.  
C. V. Gay, Penn State University, State College, PA

11:15-11:45 am Gene expression and tibial dyschondroplasia.  
R. M. Leach, Penn State University, State College, PA

11:45-12:15 pm New insight into eggshell formation.  
M. Pines, Agricultural Research Organization, Israel

### Session III: Environment, Nutrition, and Bone Health

1:30-2:00 pm Nutrition and skeletal problems in poultry.  
H. M. Edwards, University of Georgia, Athens, GA

2:00-2:30 pm Management of poultry skeletal disorders.  
H. L. Classen, University of Saskatchewan, Saskatoon, Canada

2:30-3:00 pm Factors regulating bone strength and maturity.  
N. C. Rath, USDA, ARS, Fayetteville, AR

### Session IV: Skeletal Diseases

3:30-4:00 pm Osteoporosis in cage layers.  
C. C. Whitehead, Roslin Institute, Edinburgh, Scotland

4:00-4:30 pm Molecular pathogenesis of osteomyelitis.  
M. Smeltzer, University of Arkansas Medical School, Little Rock, AR

4:30-5:00 pm Turkey osteomyelitis complex.  
G. R. Huff, USDA, ARS, Fayetteville, AR

5:00 pm Summation and conclusion

## NATIONAL POULTRY EXTENSION WORKSHOP

Chair: Scott Beyer, Kansas State University

Moderator: Jacquie Jacob, University of Florida

Sunday, August 8, 1999 - John Q. Hammons Hall III

8:00-8:05 am Welcome, Announcements: Scott Beyer, Kansas State University  
8:05-8:20 am Washington Update: Richard Reynolds, USDA/CSREES/PAS  
8:20 - 9:50 am Panel: What is the Future of Production Animal Agriculture at Land-Grant Universities—Is it Necessary?  
8:20-8:40 am Overview: James Marion, Dean, Auburn University  
8:40-9:00 am Recruitment/Youth Programs: John Carey, Texas A&M University  
9:00-9:20 am Alternative Agriculture: John Horne, Kerr Center for Sustainable Agriculture, Inc.  
9:20-9:50 am Beef and Swine: Jack Riley, Kansas State University (invited)  
9:50 - 10:20 am Field Research: Successes and Failures  
9:50-10:05 am Industry: Ken Kruger, Diamond K Research and Consulting Service  
10:05-10:20 am University: Bud Malone, University of Delaware  
10:20-10:40 am BREAK  
10:40-12:00 noon Panel: Animal Welfare: Making Progress?  
10:40-11:00 am European Situation: Dorothy McKeegan, Roslin Institute, Edinburgh, UK  
11:00-11:20 am Canadian Experience: Peter Hunton (invited), Ontario Egg Producers, Canada  
11:20-11:40 am Animal Welfareist Viewpoint: David Brubaker, GRACE Inc.  
11:40-12:00 noon United States Efforts: Janice Swanson, Kansas State University  
Noon Informal Discussion

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## From Your Newsletter Editor

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GLENN CARPENTER  
PSA Newsletter Editor

I recently completed a four-week stay in Bangladesh on a project to train poultry consultants (basically Extension specialists) to work on poultry projects for the Bangladesh government. The project was coordinated through the Agro-Technology Development Project (Bangladesh government) and US-AID, by Winrock International (Morrilton, Arkansas). The program was a three-week intensive course on all aspects of poultry management—meat and egg production, processing, marketing, nutrition, breeding, hatchery management, disease management, and business management (I always knew that my career path as a generalist would be of benefit someday, somehow).

Twenty-five individuals took part in the training. Most were veterinarians, one was a Ph.D. geneticist, two held M.S. degrees in animal nutrition, and one was a Ph.D. economist. Because of the high degree of education and experience in the group, it left me scrambling to present information which was new and “cutting edge”, on a daily basis. Because of the mix of backgrounds and experience of the group, it helped me, because many in the group could “feed” off the one or two (in addition to myself) who had background in a particular area.

The Bangladesh government is putting a great deal of effort in “Poultry Villages”—a number of small producers in a given area—which can easily be serviced by suppliers, marketers, and government poultry consultants. Having a large number of producers in an area puts in place a situation that facilitates the natural movement toward cooperative efforts in purchasing, hatching, feed milling, and marketing. Small-scale production (by U.S. standards) allows the profit to be spread around to a number of producers, and allows for maximum dispersal of the accompanying multiplier effect. A thousand bird broiler house will net (profit) over 3,000 dollars per year (not very different from a 25,000 bird broiler house in the U.S.), and a thousand caged laying hens will net

about a cent per egg (not the cent per dozen long-term industry average of the U.S.). This level of profitability on a small unit of production can quickly change the economic picture for entrepreneurs, in a country where the average per capita income is about 300 dollars per year.

Bangladesh has tremendous problems. It has few natural resources, and few ways to generate foreign capital to purchase outside inputs. The country is about the same size as Wisconsin (just a little bigger than North Carolina), and has a population about equal to half that of

the entire U.S. Despite the triple crops (two rice, one wheat) produced on most of the land, there is still tremendous hunger. Poultry and egg production will be very important in supplying animal protein to the diet of the people as the country develops, over time.

This was a tremendous experience, and I would encourage all PSA members to take part in some similar project, at some period during their career. You help a little, learn a lot, learn to appreciate what you have as an American, and learn to love your home. See you all in Arkansas.

## From Your Business Manager

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GREG MARTIN  
PSA Business Manager

This year’s annual meeting arraignments are moving forward. The Host Committee, chaired by **Diana Bisbee** and **Bill Huff**, has planned events that will prove to be interesting and enjoyable to all that attend. **Murray Bakst** and the Program Committee has arranged an interesting program, with room assignments and seating to provide comfort and efficiency in attending the presentations. Guides to oral and poster presentations, along with the new scoresheet to the student presentation award program, have been placed on the meeting website, in addition to the program. The Program Committee would like all members to review these documents, as they contain new as well as revised information.

There is a change in the way we will be sending you information pertaining to the meeting. A combined program/registration book will be offered this year. This allows for savings in printing and postage. Please, **bring the program book with you to the meeting!** Extra copies are limited at the meeting site. Early registration is appreciated, as it helps the host committee in their planning, etc, and registration materials will be found in the back of the book. Please read all instructions, as there are at times two or more forms required for complete registration. Abstracts will be posted online as well as mailed to all members *prior* to the meeting. Online versions will be keyword searchable for ease of reading.

If you are planning on having a meeting during the annual meeting, please contact either myself or Diana as soon as possible, so that arrangements can be made. Most of the standing annual group meetings are set, as well as lunches and breakfasts.

I would like to thank our sponsors for their generosity this year in sponsoring the meeting. Their contributions make things a little easier for us, and a little more enjoyable.

Your comments are always important. In that spirit, I will be working with the Long Range Planning Committee, Careers Committee, and Membership Committee in drafting a survey to be included with your registration materials. Please take the time to complete this survey for our planning use. Thank you.

## News & Notes

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### AOAC International

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#### 1999 Harvey W. Wiley Award Winner

AOAC INTERNATIONAL has named **James Lawrence** as the 1999 AOAC INTERNATIONAL Harvey W. Wiley Award winner in recognition of his outstanding contribution to analytical methodology. Lawrence will accept this prestigious AOAC award at the opening session of the 113<sup>th</sup> AOAC INTERNATIONAL Annual Meeting & Exposition to be held in Houston, Texas, September 26-30, 1999. He will also deliver the keynote address at the Wiley Award Symposium. The subject of his presentation is *Immunochemical Techniques in Food Contaminant Analysis*.

Lawrence, head of the Food Additives and Contaminants Section in the Food Research Division of the Health Protection Branch of Health Canada, receives this award in acknowledgment of his work in food additives and contaminants, particularly high pressure liquid chromatography and residue analysis.

AOAC INTERNATIONAL has released the 8<sup>th</sup> Edition of the *FDA Bacteriological Analytical Manual (BAM)*, current through Revision A, 1998 on CD-ROM. In an easy to use format that allows the user to search by words or phrases, this CD-ROM contains the most current methodology used in U.S. Food and Drug Administration (FDA) laboratories for the detection of microorganisms and certain of their metabolic products in foods, beverages, and cosmetics.

The current version of the 8<sup>th</sup> Edition contains revised material including updates to selected *BAM* chapters on *Campylobacter*, Staphylococcal enterotoxins, yeasts and molds, and parasitic animals in foods; as well as updated appendixes featuring commercially available test kits and Most Probable Number enumeration of bacteria. New material also incorporates editorial corrections to the 8<sup>th</sup> Edition published in 1995 and an up-to-date list of contact personnel for each chapter, including e-mail addresses.

The CD-ROM uses the latest Adobe Acrobat™ software which allows users to view and print fully formatted text—complete with formulas, tables, and images. Acrobat™ also contains hypertext links that allow users to click on highlighted references to jump easily to other chapters and related material.

In addition to *BAM*, the CD-ROM features the FDA *Foodborne Pathogenic Microorganisms and Natural Toxins Handbook*, also known as the “Bad Bug Book,” which provides basic facts regarding foodborne pathogenic microorganisms (bacteria, viruses, and parasites) and natural toxins. The intent of each chapter is to provide essential information regarding these organisms and toxins, including their characteristics, habitat or source, associated foods, infective dose, characteristic disease symptoms, complications, recent and/or major outbreaks, and any susceptible populations.

For more information, or to request a review copy, contact AOAC INTERNATIONAL by phone: +1-301-924-7077, fax: +1-301-924-7089, Internet: [pubsales@aoac.org](mailto:pubsales@aoac.org), or mail: 481 North Frederick Avenue, Suite 500, Gaithersburg, MD 20877-2504 USA. Visit AOAC's World Wide Web site: <http://www.aoac.org>.

#### New Books

AOAC INTERNATIONAL has announced the publication of a new book, *Analytical Techniques for Inorganic Contaminants*, by **Kim Anderson**. The book is scheduled for release this spring.

This manual is intended to provide chemists and analysts in the fields of veterinary toxicology, agriculture, and environmental chemical analysis with a compilation of new, selected, and proven techniques for determining inorganic compounds with detailed insight and comprehensive step-by-step instructions. These techniques were chosen on the basis of recent technical and instrumental advancements for a particular inorganic analyte in the selected matrices.

For more information, or to request a review copy, contact AOAC INTERNATIONAL by phone: +1-301-924-7077, fax: +1-301-924-7089, Internet: [pubsales@aoac.org](mailto:pubsales@aoac.org), or mail: 481 North Frederick Avenue, Suite 500,

Gaithersburg, MD 20877-2504 USA. Visit AOAC's World Wide Web site: <http://www.aoac.org>.

AOAC INTERNATIONAL has announced the publication of a new book, the Spanish language translation *Pesticides Laboratory Training Manual*. Edited by **Clifton E. Meloan**, the manual was originally prepared in 1996 under cooperative agreements among the U.S. Agency for International Development (USAID), the U.S. Environmental Protection Agency (EPA), and the U.S. Food and Drug Administration (FDA). These agencies recognize the importance of the pesticide analytical laboratory in promoting safe, effective use and management of pesticides. The translation was prepared by **Rebeca Weinstein**.

This manual covers the techniques and methods considered to be the basic tools needed by a pesticide laboratory to conduct general residue analysis satisfactorily at the parts-per-billion range. For situations in which the analysis is for official purposes, the book covers proper documentation of the process from beginning to end. It covers sample collection; sample preparation; extraction, cleanup and concentration; instrumentation; separation and detection; data handling and reporting; and quality control, quality assurance, and safety.

For more information, or to request a review copy, contact AOAC INTERNATIONAL by phone: +1-301-924-7077, fax: +1-301-924-7089, Internet: [pubsales@aoac.org](mailto:pubsales@aoac.org), or mail: 481 North Frederick Avenue, Suite 500, Gaithersburg, MD 20877-2504 USA. Visit AOAC's World Wide Web site: <http://www.aoac.org>.

## North Carolina

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### NC State Poultry Science Honors Alumni

Faculty members in the Department of Poultry Science at **North Carolina State University** honored two Alumni during the Department's Annual Scholarship and Awards Banquet, April 23, 1999. This is the second year that the faculty have honored alumni who in their careers

have made very significant contributions to both the industry and the Department.

**David W. Anderson**, Director of Genetic Programs and Breeder Operations for Perdue Farms, Salisbury, MD, was named as the recipient of the Department's **Distinguished Young Alumnus Award**. David graduated a B.S. degree in NCSU Poultry Science in 1981. He was an excellent student and a very active participant in the Poultry Science Club and other student activities. He has continued to be very supportive of the Department and its students following his move to the industry. He began working for Perdue in its Statesville, NC, breeder operations as a breeder service person, and subsequently rose through the breeder division and into his current position where he is in charge of all Perdue genetic and breeder programs. He and his wife Becky and their three children live in Salisbury, MD.

**Donald Wilson Mabe**, retired, was named as the recipient of the Department's **Distinguished Alumnus Award**. Don received a B.S. degree in

Poultry Science from NCSU in 1953, and subsequently led a long and distinguished career in the poultry industry. Immediately following graduation, he served for two years in the U.S. Infantry. He then joined the sales and service staff at Fair Acre Feeds in Winder, GA, where he worked for two years. In 1957, Don joined Perdue Farms, Salisbury, MD, as a sales and service agent. Upon his retirement, he had risen to the position of CEO and President of Perdue Farms. Don was one of those individuals who worked in a time when the entire industry was undergoing a complete transformation. He seized the opportunity to help shape how broilers were produced, processed and marketed. When he joined Perdue, sales for the company were \$3 million and the company employed 100 people. When he retired, sales were \$2.5 billion and more than 18,000 associates were working for Perdue.

In 1988, the Mabe Scholarship Endowment was established for deserving students in Poultry Science at NC State. It has since grown to become the second

largest endowment for the Department. Don Mabe has also received several other industry awards, including the DELMARVA poultry industry's Distinguished Service Award (1983), the Outstanding alumnus for the NCSU College of Agriculture and Life Sciences (1986) and he was named as a member of the NC Poultry Hall of Fame in 1995.

### NC State University Annual Poultry Science Awards Banquet

The NCSU Poultry Science Department Awards Banquet was held April 23, 1999 at the McKimmon Center in Raleigh. The banquet was attended by over 125 faculty, students and industry guests and scholarship donors.

The banquet was a milestone for the Department's Scholarship program with over \$50,000 awarded to current and incoming students. Poultry Science students continue to do well academically with 27 of the awardees having grades above a 3.0 on a 4.0 scale.

## 1999-2000 NC State Poultry Science Scholarships

Scholarship	Awardee(s)	Scholarship	Awardee(s)
SEPEA	Caitlin Boon, Huntersville, NC Christopher Trivette, Union Grove, NC James Severt, Monroe, NC Jonathan Baker, Mooresville, NC	Don Mabe	Teresa Redfern, Indian Trail, NC Jeremy Gupton, Enfield, NC Joshua Hudgins, Statesville, NC Nathan Wells, China Grove, NC Robby Mills, Farmville, NC Alison Cuddy, Marshville, NC
Wilkes Area Poultry	Caitlin Boon, Huntersville, NC	H.B. Craig	
Wilkes Endowed	Eric Deal, China Grove, NC	Tom Hester	Archie Miller, Belvidere, NC
Frost & Co. Hubbard Farms	Andrea Sinclair, Hickory, NC Heather Christenberry, Apex, NC	Robert E. Cook	Eric Cline, China Grove, NC
BASF-Tyson	Amelia Speaks, Statesville, NC Nathan Walters, Crumpler, NC Carla Williams, Goldsboro, NC	Connor Kennett	Jamie Wilson, Thomasville, NC Lynn Johnson, Fuquay-Varina, NC
Carolina Turkey	April Killibrew, Rocky Mount, NC	NC Turkey Federation	Nicholas Allen, Siler City, NC
Carolina Feed Industry Assn.	Rosemary Stowers, Greensboro, NC Janna Franklin, Carolina Beach, NC Jennifer Little, West Jefferson, NC Kelly Parks, Drexel, NC	NC Mutual Hatchery Assn.	Kevin Jones, Albemarle, NC
Wampler Long Acre Foods	Garrett Howell, Harrisonburg, NC Rebecca Casto, Richmond, VA	Freeman Cook	Sharon Williams, Murphy, NC
		Holly Farms	Angela Sturges, Enfield, NC Amelia White, Apex, NC
		Tom Morris	Sarah Martelle, Charlotte, NC Kevin Lastowski, Sanford, NC
		Centra Soya	Ronnie Safrit, Rockwell, NC
		M.B. Gardner	Kathryn Jones, Charlotte, NC

## Incoming NC State Freshman

Scholarship	Awardee(s)
Freeman Cook	Randolph Carothers, Grover, NC Melissa Smith, Denver, NC James Swanner, Salisbury, NC Wesley Stephens, Council, NC Alexandra Hutton, Memphis, TN

A total of forty-two NC State Poultry Science students will receive some financial aid from the Department Scholarship program for the 1999-2000 academic year.



# WPSA: Your International Connection

## WPSA - USA Branch News

The Board of the USA Branch of WPSA will meet at 1:00 p.m. on Monday, August 9, 1999 at the PSA Meeting in Springdale, Arkansas. The Annual Meeting for the General Membership of the USA Branch will be held at noon on August 10. Plan to attend and be brought up to date on activities of both the USA Branch and WPSA.

## World Congress Organizing Committee

Plans for the XXI World's Poultry Congress are progressing well. Almost all of the 120 invited speakers who will lead the Symposium have confirmed their attendance. An internationally acclaimed journalist, **Gwyn Dyer**, has been invited to present the plenary lecture on *The Politics of Food*, and **Rob Etches**, Scientific Program Chairman, has been invited to present the WPSA lecture (normally a part of the PSA Annual Meeting) to complement her presentation. The final part of the first session of the Congress will consist of the presentation of the WPSA Awards, courtesy of The Netherlands Branch, WPSA, and reports from the 1996 Award recipients.

The exhibition, which will be located in the same building with the Congress is also progressing well, and about half of the exhibition space has been reserved. Sponsors get pride of place for location, but there are still many good spaces available, and prospective exhibitors are encouraged to book now. Contact **Martine Coutu** at Events International (see information below)

The first announcement was mailed in December, 1998 to all WPSA members (additional copies are available from Events International). The second

announcement is in preparation and should be mailed to all WPSA Members in October, 1999.

The Organizing Committee has been meeting twice and the Executive Committee four times annually. Committee members are attending a number of international events to promote the WPC 2000. Committee Members will be at the PSA meeting in Springdale, AR, on August 8-11, 1999, where they will be offering registration for the joint meetings in Montreal of PSA and the WPC in 2000.

The Organizing Committee has not forgotten the social and accompanying persons= programs, and some attractive events are being planned. Look for details in the second announcement or on the Congress web site <http://www.wpc2000.org>

National branches are being assisted in the planning of group tours before and/or after the Congress. The German Branch is planning a tour that will include not only the Congress, but Western Canada and Southern Ontario (Niagara Falls) as well.

For more information about the Congress, consult the web site or:

Events International Meeting Planners Inc., 759 Victoria Square, Suite 300, Montreal, Quebec. H2Y 2J7 Canada.

## USA Branch Member Travel Grants for the Montreal WPSA Congress 2000

As in the past, the USA Branch of WPSA will be offering a limited number of travel grants for the XXI WORLD'S POULTRY CONGRESS, to be held August 20-25, 2000, in Montreal, Canada. These travel grants are aimed at assisting as many participating scientists as our funds allow with partial financial support. The primary purpose is to encourage

USA Branch member scientists to actively participate in the WPSA congress. It is hoped that this award would partially help offset the cost associated with attending this meeting and also help to leverage additional funding. The USA Branch travel grants will be limited to a maximum of \$1,000.00 per person.

Eligibility for Travel Award: Eligibility requirements for the 2000 WPSA travel award are:

Applicants must be a dues-paying member of the USA BRANCH of WPSA during 1999 and 2000.

Poster presentations must be acceptable by the Congress Scientific Program Committee.

Applicant must be the presenting author and participate in the Congress.

Each applicant is limited to one poster for travel grant consideration.

Travel awards are not transferable.

Invited speakers, funded by the Congress, are not eligible.

Authors requesting travel support from the USA Branch of WPSA must submit 4 copies (not originals) of the abstracts no later than **March 1, 2000** for evaluation by USA Branch Travel Awards Committee. The abstract must be prepared in accordance with the guidelines provided by the Scientific Program Committee of the XXI World's Poultry Congress. Abstracts not prepared in close accordance with these guidelines will not be considered for an award. The papers will be evaluated for scientific merit and timeliness.

Deadline for submission to the Canadian Branch is also March 1, 2000

This deadline should allow ample time for scientists to make their submission plans based on the need for partial travel support. Scientists, regardless of award status, must submit their own papers (using the original abstract submission forms) directly to the XXI World's Poul-

try Congress Secretariat by the deadline of March 1, 2000.

All travel awards will be contingent upon notification of acceptance of the paper by the Scientific Program Committee of the XXI World's Poultry Congress and actual participation of the scientist at the Congress. Participants will be responsible for making all of their own registration, travel, and lodging arrangements.

Send four (4) copies of the completed abstract submission forms, prepared according to Scientific Program Committee guidelines, to Chairman, USA Branch of WPSA Scientific Papers and Travel Awards Committee no later than March 1, 2000 to:

Dr. Sarge Bilgili  
Department of Poultry Science  
Auburn University  
Auburn, AL 36849-5416

### **USA Branch Youth Travel Grants for Montreal WPSA Congress 2000**

The USA Branch will again be sponsoring the Cliff D. Carpenter Youth Program Essay Contest for Poultry Science students to compete for two or more travel for attendance at the XXI World's Poultry Congress in Montreal, Canada on August 20-25, 2000 (see eligibility criteria listed below). Award recipients will be selected based on an essay submitted by the applicant, and evaluated according to guidelines established by the WPSA - USA Branch Youth Committee. Selection will be based on specific requirements for the Youth Program from the Congress Organizing Committee.

#### Eligibility Requirements

Applicant's birthday must be on or after September 1, 1974 and on or before September 1, 1980 (age 19 to 25 on September 1, 1999)

Applicant must be a full or part-time student having a major in Poultry Science or poultry emphasis in a merged Animal Sciences or related department at any institution of higher education. For clarification, students in DVM, Ph.D., M. S., B.

S. or A. S. or similarly qualified degree programs with emphasis on poultry are eligible for this competition.

Applicants must be **U.S. CITIZENS**.

Details regarding essay development, essay topics, submission dates, etc. will be available by the time of the Springdale, AR, PSA Meeting.

### **From Herbert Siegel, Vice President WPSA and WPSA Newsletter Editor**

The Spring Issue of the world-wide WPSA Newsletter is going to press, and should reach the various Branch Secretaries by the end of May. We request that the Branch Secretaries copy and distribute the Newsletter to their branch membership.

The Executive Council of WPSA will meet on September 19, 1999 in Bologna, Italy during the European Symposia on Quality of Poultry Meat and Quality of Eggs and Egg Products. Any issues of concern by members of the U.S. Branch that should be brought before the Executive Committee should be conveyed to me as a representative of the U.S. Branch.

### **Membership Applications**

Just a gentle reminder for those of you who have procrastinated and who have not yet paid your WPSA dues for 1999. A membership application form was included in the January, 1999, PSA Newsletter. If you can't locate a form, contact Richard Forsythe, USA Branch Secretary/Treasurer at the following e-mail address and he will send you one: forsythe@comp.uark.edu

Remember, you must be a dues paying member during the years 1999 and 2000 to be eligible to compete for the USA Branch Travel Grants to the WPSA Congress in Montreal. Please encourage your colleagues and graduate students to join the USA Branch. Membership is a real bargain, and some of the advantages of membership were provided in the January PSA Newsletter.

## **Congratulations - Greg Martin**

**DON BELL**  
PSA President

I am pleased to announce that **Greg Martin**, PSA's business manager, has successfully defended his dissertation *The Effects of Feeding Management on Growth and Production of Broiler Breeder Females* at Texas A & M University. Greg's committee included **C.A. Bailey** and **R.C. Fanguy**. By the time this letter is published, we will be addressing him as "Dr. Martin".

**Reminder:**  
**Pre-Register for the meeting by July 30th to avoid long lines at on-site registration. Forms are in the back of the Program Book and on the PSA website.**

## National Poultry Database Project

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The National Poultry Database (NPD) will provide educational materials for all aspects of the poultry industry in an organized manner. The National Poultry Database will help students, research scientists, extension educators, and poultry industry personnel to find the information needed, when they need it, to make informed decisions. The National Poultry Database project will be conducted as one of a family of national projects under the umbrella program, Agricultural Databases for Decision Support (ADDS). As an ADDS project, the National Poultry Database project will take advantage of more than ten years of research and development that have already resulted in several successful products for the dairy, pork, beef, and sheep industries. The NPD will be available on the World Wide Web and on compact discs. A demonstration NPD may be seen

at: [www.reeusda.gov/adds/pouларay.htm](http://www.reeusda.gov/adds/pouларay.htm)  
Except for the FARAD button, this site is nonfunctional. Educational materials including articles from trade and professional journals, meeting handouts, pamphlets, newsletters, mass-media, and other sources of information will be placed in each array. Educational materials placed in each array will be selected by a committee of university, government, and industry representatives having expertise in each subject array. The "Editorial Leader" of each subject array will distribute materials to the committee members, they will vote on the acceptability of the material. This project needs your help. We are interested in receiving educational materials for review, especially if they are in electronic format. We also need volunteer editors to review and vote on materials for inclusion into the NPD. For more information contact: **Nick Zimmermann** (E-mail: [nz6@umail.umd.edu](mailto:nz6@umail.umd.edu), Phone: 410-651-9111), **Mickey Latour** (E-mail: [gator@purdue.edu](mailto:gator@purdue.edu), Phone: 765-494-8011), or **Richard Reynnells** (E-mail: [rreynnells@reeusda.gov](mailto:rreynnells@reeusda.gov), Phone: 202-401-5352).

## ANNUAL MEETING PROGRAM UPDATES

Since the printing of the program we have received some cancellations and changes, please mark these in your copy of the program. Abstracts number 228, 229, 251 and 253 have canceled their oral presentations. Due to these cancellations abstract number 252 will now be presented at 3:30 pm on Monday, August 9. Abstracts number 400, 401, 402, 403 and 404 were omitted from the program and will be presented as posters, please visit our website for full titles and actual times of presentation for these abstracts. We will be posting any further cancellations and changes on the website as well as putting them in the meeting newsletter.

## Alliance for Environmental Stewardship

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Misperceptions exist in the public and legislative bodies, at the state and federal levels, regarding the relative importance of various nutrient sources in the degradation of our water resources. A workshop, "*Alliance for Environmental Stewardship: A Comprehensive Approach*," will be held September 26-28, 1999, in St. Louis, Missouri. The intended audience is public and private sector professionals who are involved in the practical and public policy areas of the management of all nutrient sources. Workshop goals include: 1) to provide an opportunity for a comprehensive, objective, and science-based analysis of the impact on our environment by nutrients, primarily nitrogen and phosphorous; 2) to promote sound decision making processes that require scientific and comprehensive evaluation; 3) to provide an opportunity to cooperate with representatives for all sources of nutrients, and persons who influence policy (e.g., media) to discuss ways in which we can work together to protect the environment; 4) to create recognition that all sources of nutrients impact the environment; 5) to define and implement proactive programs through commercial agencies, government agencies and universities. A General Session will be followed by five sessions on sources of nutrients (animal agriculture, biosolids, commercial fertilizer, urban components, on-site/sewage treatment). Work Group Discussions will develop a set of prioritized recommendations for decision makers to use as a basis for comprehensive policy development, and establishment of research and economic priorities that will correct or ameliorate pollution problems. Complete information including the program, registration form, and poster abstract submission is available at: [www.inform.umd.edu/ManureNet/workshops/workshop.htm](http://www.inform.umd.edu/ManureNet/workshops/workshop.htm) or contact **Nickolas Zimmermann** (Phone: 410-651-9111, Fax 410-651-9187, E-mail: [nz6@umail.umd.edu](mailto:nz6@umail.umd.edu)).

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**WHOM ARE WE MISSING?**

Are you aware of any of your peers who would benefit from membership in PSA?  
We would like to invite them to join the Poultry Science Association, but we need you help finding out who they are.  
Take a few seconds to jot down the names of colleagues who would make good PSA members. Simply send us their names, and we'll do the rest. It's that easy. There is nothing more to do.  
Think about young professionals you know who could gain great networking advantages as they take their first step out into the working world. Consider the poultry scientist who is new on the job...what better way to get established than by joining PSA?  
Don't forget veteran scientists...PSA membership puts invaluable resources at their fingertips.  
So, while you help PSA to grow, you also introduce colleagues to the many benefits of PSA membership.  
Detach the portion below to send your recommendations. Thank you for your help!

✂ \_\_\_\_\_  
I recommend the following colleagues for membership in PSA:

Name \_\_\_\_\_ Title \_\_\_\_\_

Business Name & Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name \_\_\_\_\_ Title \_\_\_\_\_

Business Name & Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name \_\_\_\_\_ Title \_\_\_\_\_

Business Name & Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*(Feel free to send extra pages with additional names if necessary.)*

May we use your name in our membership invitation?    \_\_\_\_\_Yes    \_\_\_\_\_No

Your name \_\_\_\_\_

E-mail \_\_\_\_\_

Return this form to:

PSA Recruitment or    FAX: 217-3968-4119  
1111 N. Dunlap Ave  
Savoy, IL 61874

# Coming Events!

## JULY 8-9, 1999

**INTERNATIONAL BLOOD TESTING WORKSHOP.** Amsterdam, Holland. For information and reservations contact organizer: Elaine Robson, Telephone: +44 (0) 1377 256316; FAX: +44 (0) 1377 254663; E-mail: er@positiveaction.co.uk

## JULY 9-16, 1999

**INTERNATIONAL WORKSHOP AND MINISYMPOSIUM 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; E-mail: dfung@oz.oznet.ksu.edu

## AUGUST 8-11, 1999

**88TH POULTRY SCIENCE ASSOCIATION ANNUAL MEETING.** University of Arkansas. Holiday Inn Conference Center. Springdale Arkansas. For information, contact Diana Bisbee at the Center of Excellence for Poultry Science at the University of Arkansas. Telephone: 501-575-4952; FAX: 501-575-3026; E-mail: dbisbee@comp.uark.edu. Visit the Web site at: [www.uark.edu/depts/posc/PSA99.html](http://www.uark.edu/depts/posc/PSA99.html)

## 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, Telephone: +31 317 484082; FAX: +31 317 494260; E-mail: 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. Phone: +61-3-9328-2399. FAX: +61-3-9328-4116. E-mail: icr99@airah.org.au.

## SEPTEMBER 21-22, 1999

**SEMEN CRYOPRESERVATION & ARTIFICIAL INSEMINATION SYMPOSIUM.** Sponsored by the American College of Theriogenologists and the Society for Theriogenology. Double Tree Hotel, Nashville, TN. Contact the SFT Headquarters, 530 Church Street, Suite 700, Nashville, TN 37219, or Phone: 615-244-3060.

## SEPTEMBER 23-24, 1999

**ANNUAL CALIFORNIA POULTRY INDUSTRY FEDERATION (CPIF) CONFERENCE AND BOARD OF DIRECTORS MEETING.** Piccadilly Inn, Fresno, CA. Contact Mark Looker, Communications Manager of CPIF for more information. Phone: (209)576-6355. E-mail: mllooker@ainet.com

## SEPTEMBER 27-29, 1999

**ALLIANCE FOR ENVIRONMENTAL STEWARDSHIP. A COMPREHENSIVE APPROACH.** Contact Nickolas G. Zimmermann, University of Maryland LESREC-PAF, Princess Anne, MD 21853-2905. Phone: 410-651-9111. E-Mail: nz6@umail.umd.edu.

## OCTOBER 3-8, 1999

**10TH WORLD CONGRESS OF FOOD SCIENCE AND TECHNOLOGY.** Sydney, Australia. For information contact: AIFST Inc., PO box 1493, North Sydney, NSW 2059 AUSTRALIA. Phone: +61-29-954-4499. FAX: +61-29-954-4327. E-mail: 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 Department, University of Wisconsin, River Falls, WI 54022; Telephone: 715-425-3150; FAX 715-425-3372; E-mail: [Purnendu.C.Vasavada@uwrf.edu](mailto:Purnendu.C.Vasavada@uwrf.edu)

## FEBRUARY 7-9, 2000

**2000 AUSTRALIAN POULTRY SCIENCE SYMPOSIUM.** University of Sydney, Sydney, NSW, Australia. Where required, overseas participants should make application for a tourist visa at least 12 weeks prior to their proposed date of travel. Contact R.A.E. Pym, Animal Health and Production, School of Veterinary Science and Animal Production, University of Queensland, St. Lucia, Queensland, 4072, Australia. FAX: 61-7-3365-1288; E-mail: r.pym@mailbox.uq.edu.au

## 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, Quebec, Canada, H2Y 2J7.

## Future PSA Meetings

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