From Your President

DON BELL
PSA President

Mid-Year Board of Directors Meeting

Each year in January, your Board of
Directors meets in Atlanta to review the
year’s activities and to finalize plans for the Annual
Meeting. This year’s meeting lasted for one
and one-half days and was as busy as ever, with committee reports, long-range plans, Journal
Editor’s update, budget reports, Constitutional issues, Annual Meeting progress, Finance Committee presentations, and an assortment of other items.

Each member of the Board serves as liaison to several different award and special committees. In this capacity, they work closely with the various chairs to maintain communications and to facilitate the operations of the various committees.

As of February 16, we have received 44 award nominations for 12 awards. Hopefully, we’ll have a minimum of 4 nominations for each major award. Committee chairs are working hard to encourage additional nominations.

Herb Siegel, Editor-in-Chief of the journal Poultry Science, reported on the progress of the “electronic journal”. Individual members can now access full-text papers (with the use of member passwords) at least 2 wk earlier than the paper copy (in the U.S. and Canada) and 4 to 6 wk earlier overseas. Fifty-one symposium papers were published in 1998—a total of 275 pages from five Annual Meeting symposia. This represents 14% of the total journal. A comparison of page charges with ADSA and ASAS shows that PSA charges are only 40% of the other two societies ($55 vs $135). A total of 290 papers were published in the journal in 1998 compared to 237 in 1997. Upon the recommendations of the Editor-in-Chief, the Board voted to combine the Immunology and Molecular Biology sections due to relatively few journal submissions.

The Long Range Planning Committee report by Mary Beck continued our discussion of membership trends and Annual Meeting formats. The 2000 (Montreal) and 2001 (Indianapolis) Annual Meetings are currently in the planning stages, and we’ve made contacts with three institutions for future meetings.

Directors Tony Pescatore and Bob Wideman represent PSA on the Federation of Animal Science Societies (FASS) Board. Their report included comments about the new FASS committee structure, which would include the following committees with our representatives listed:
1) Animal Care (Murray Bakst and Bruce Webster); 2) Food Safety/Drugs
United States Poultry and Egg Association’s PSA Booth

PSA’s booth at the U.S. Poultry and Egg Association’s exposition in Atlanta was a big success this year thanks to Greg Martin and the many individual members of the Association who helped to man it. I spent several hours at the booth and stopped by from time to time and always found the booth busy with prospective members from around the world, as well as PSA members taking care of renewals or asking questions. Several new members were signed up on the spot. PSA shares this booth with the WPSA, and the exhibit space is provided to us free from USPEA. We thank them for this courtesy.

Western Poultry Disease Conference (WPDC)

This year’s meeting of veterinarians with significant programs in poultry meets in Vancouver, B.C. in late April. This conference is usually attended by 250 or more veterinarians with a strong contingent from Latin America. Ed Moran and I will be presenting papers. My paper, titled “The Poultry Science Association’s Electronic Journal and Other Outreach Programs”, is intended to promote and encourage membership in PSA.


PSA 1999 Individual Sustaining Members

As of February 25, 1999

GOLD ($100.00 or more)

J. James Bitgood
Rolando 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
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
Peter R. Ferket
Glenn W. Froning

BRONZE ($25.00 or more)

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. Cavens
June DeGraft-Hanson
Florencio Eusebio

From Your Newsletter Editor

GLENN CARPENTER
PSA Newsletter Editor

At this writing (early February), the first signs of spring are already beginning to show here in central North Carolina. Daffodils, forsythia, and flowering quince are all starting to bloom. I came to the office today in a short sleeved shirt—no jacket. These are just a couple of the pleasures of living in the South, that my Northern friends can envy.

We have another good issue for April. President Don Bell provides details of the mid-year meeting, which was held in Atlanta. Nick Zimmermann talks about the WCC-59, Alliance for Environmental Stewardship meeting that is being planned for early this fall. We have an update on WPSA from Dan Fletcher.

I hope everyone is making plans to attend the PSA meeting in Arkansas. I think that the meeting will be a very good one. The Symposia, as outlined in the January and April PSA Newsletters, will all be excellent. The University of Arkansas has done a great job of organizing this event.
Campylobacter as a Food Safety Hazard in Poultry*
Sponsored by the PSA Food Safety Committee, D.E. Conner, Chairman

August 10, 1999

3:30–3:35 pm  Welcome and Overview
Donald E. Conner, Department of Poultry Science, Auburn University

3:35–3:45 pm  Regulatory Issues Related to Campylobacter on Poultry
James E. Marion, Department of Poultry Science, Auburn University and National Chicken Council, Washington, DC

3:45–4:05 pm  Campylobacter as a Foodborne Pathogen
Amy Waldroup, Department of Poultry Science, University of Arkansas

4:05–4:25 pm  Ecology of Campylobacter in the Live Production Environment
Eric Line, USDA-ARS RRC, Poultry Microbiology Safety Research Unit, Athens, GA

4:25–4:45 pm  Persistence and Spread of Campylobacter During Processing
J. Allen Byrd II, USDA-ARS, FAPRL, College Station, TX

4:45–5:05 pm  Methods for Detection, Isolation, and Identification of Campylobacter
Omar Oyarzabal, Novus International, Inc., St. Louis, MO

5:05–5:25 pm  Significance of Antibiotic-Resistant Campylobacter
Paula Cray, USDA-ARS RRC, Poultry Microbiological Safety Research Unit, Athens, GA

*NOTE: As of March 2, 1999: Tentative titles. Speakers confirmed.

The Career Center at PSA '99

As in past years, PSA will have a Career Center at the Annual Meeting. This program helps members in position postings and position searches. Over 44 resumes (CV) were posted last year along with over 10 position openings. A few firms conducted formal interviews, as well as several impromptu meetings by institutions.

If you wish to be included in this year's center, you should send 15 to 20 copies of your resume to: PSA Career Center - CV, 1111 N. Dunlap Ave., Savoy, IL 61874, by July 23, 1999. After that date, you may still participate by bringing copies of your resume along with you to the meeting to post in the Center. Institutions will ask for resumes prior to the meeting, and all of these received on or before the deadline will be included in the mailing. Posting of CV’s online is available via the PSA on-line career center. This will be highlighted prior to and after the meeting.

If you wish to post a faculty position, post-doc, internship or other position opportunity for your firm or institution, please send a full description of the opportunity, including contact information for applicant correspondence, to: PSA Career Center - OPS, 1111 N. Dunlap Ave., Savoy, IL 61874, by July 23, 1999. A special meeting website with position announcements to appear at the Career Center will be enabled two weeks prior to the beginning of the meeting. Send text of the position announcement in either Word or WordPerfect file format to the PSA Career Center, along with the paper copy of the announcement if you wish to have this posted online. If you wish to have a packet of resumes sent to your institution or firm for consideration, please send correspondence to the address above or contact us directly (jennig@assochq.org) to make those arrangements. Formal arrangements for interview rooms are possible; please contact PSA to reserve time in the interview room.
We’re Doing Our Part To Keep Your Association Moving.

Meeting attendees can enjoy 5% off the lowest published fare or 10% off the full coach fare on American. Low-rate “Zone Fares” also available depending on date ticketed and your departure city. Plus, receive an additional 5% discount when you purchase your tickets 60 days in advance.

The Airline Of Poultry Science Association’s 88th Annual Meeting.
Call American At 1-800-433-1790 Or Your Travel Agent
And Ask For STARfile #9389UE.

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Bringing The Poultry Science Association Meeting Together One Person at a Time

Certificates are available to members or you can call Northwest Airlines World Meeting and Incentive Reservations directly at 1-800-328-1111, 7:30 a.m.-7:30 p.m. (CT), Monday-Friday to make your reservations. Give the operator NW Worldwide code: NY453 for US and Canada and NW Worldwide code: RB250 for passengers inbound from Europe and Asia.

Association Dollars Off Certificate (ADOC)

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It was fun to visit with all who stopped by the PSA booth in Atlanta this January. I would like to thank Bernard Leonard and Ed Cox of the U.S. Poultry and Egg Association for their continued support of the PSA booth at the International Poultry & Egg Exposition. PSA will be exhibiting at the Midwestern Poultry Federation Convention in St. Paul, Minnesota, as well as the PSA Annual Meeting. If you haven’t seen the booth lately stop by; Janet Brown has done an excellent job of redesigning the booth to bring to focus our mission and activities.

Please make your plans now to attend the Annual Meeting Aug 8–11 in Springdale, AR. Our hosts at the Center for Excellence in Poultry Science at the University of Arkansas are working hard to make for an excellent experience for all. Of special note is the poultry cookbook being produced by the Poultry Science Department. There is a recipe form available at the host committee website at: www.uark.edu/depts/posc/PSA99.html

Recipes are due to Shawnna Brannon at the Center of Excellence by June 1, 1999.

Murray Bakst, Program Chair for PSA ’99, has forwarded materials to me that I will post soon to the meeting website. Included is the Graduate Presentation scoresheet to be used at the meeting this year and tips to making successful oral and poster presentations. Copies of these documents will be available upon request to PSA Headquarters.

Hotel reservations for PSA ’99 should be made by calling the hotel directly. Be sure to mention that you are attending the PSA Annual Meeting in order to get a room from the reserved block of rooms for PSA ’99. A listing of participating hotels, along with airlines, etc. can be found on the PSA website at: www.psa.uiuc.edu/meet/psa99/psa99.html

Discounts for airfares have been secured, and the group numbers have been distributed to the membership in several mailings. You can get the group numbers for airfare and car rentals (if desired) from the PSA website.

A Career Center will be featured again at PSA ’99. Please check elsewhere in this newsletter for information about this program. The PSA Careers Committee (S. C. Riche, Chair) is assisting and advising in this effort.

Space for exhibiting at PSA’99 is still available. If you are planning to exhibit, please call the Headquarters Office for an exhibitor’s prospectus.

I would like to thank those who have graciously contributed to and sponsored PSA’99 activities. From their generous donations, our sponsors have helped keep the cost of running Annual Meetings (and registration fees) at the lowest possible cost and made for a more enjoyable experience. If haven’t done so yet, please consider sponsorship of this year’s meeting, by contacting PSA.

Lastly, one of my goals as Business Manager is to collect feedback from the membership on issues of concern and services for the Board of Directors to consider during our monthly board conference calls. I would like to thank those members who have commented on a variety of subjects. I am currently soliciting feedback about the online abstract submission system that has been refurbished by FASS. One of the key features of this improved system is that the program committee can review papers online, shortening the time spent in distributing paper copies of the abstracts. Let us know how the system performed this year, as well as suggestions for next year. Thank you.

PSA Constitutional Amendment To Be Voted On at PSA ’99

The proposed change relates to Article 7, Section 4. The Constitution presently reads “No two elected officials shall be from the same institution or organization at the time of their election.”

The proposed change reads “No more than two elected officers shall be from the same institution or organization at the time of their election.”
More on the 1998 National 4-H Poultry & Egg Conference

When the PSA Newsletter went to press last January, photographs from the Conference were not yet ready for publication. Here are this year’s winners.

The winning team for overall poultry judging is from Florida. Pictured from left to right are: Pebbles Fulford, Amy Upton, Krista Renner (coach), Bob Renner (coach), and presenter Larry Brown of USP&EA.

The winner of the Chicken Barbecue contest was Stephen Brannon (left) from Arkansas. Presenting the award is Erin Weaver, representing the broiler industry.

The California team won the 1998 Avian Bowl. Pictured left to right are Tom Schaffer of Perdue Farms, presenting the awards, and team members Arial Smoke, Maryanne Duttarer, Buck Cundiff, Bryant Helvey, and Jan Duttarer (coach).

The winner of the Egg Cooking contest, Kara Thompson (middle) from Alabama. On her right is coach Marsha Moorhead. On her left is Linda Francis of Cal-Maine, who presented the award.

The overall top individual in the Poultry Judging Contest is Pebbles Fulford (left) from Florida. Presenting the award is Larry Brown of USP&EA.

DEADLINE FOR ITEMS FOR PSA NEWSLETTER

The deadline for items to be included in the July 1999 issue of the PSA Newsletter is May 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@assochq.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

Ken Koelkebeck (right), University of Illinois, presents a 4-H Lifetime Achievement Award to Charles Wabek of the University of Maryland.

The Turkey Barbecue contest was won by Laron Edwards (left) from Arkansas. Presenting the award is Bob Hogue, representing the turkey industry.
The Board of Directors for the USA Branch of the World’s Poultry Science Association met on Wednesday, January 20, 1998, at the World Congress Center in Atlanta, Georgia, with several new Board members in attendance. New officers were elected, and planning was begun for the Branch’s participation in the World’s Poultry Congress to be held in Montreal, Canada, on August 20–25, 2000.

**Board of Directors: New Structure and Recent Elections**

Beginning with the year 2000, the President and Vice President of the USA Branch of WPSA will be elected directly from the general membership. Terms of office will be four years, coinciding with the scheduling of the World Poultry Congresses. This is in contrast to the current structure in which the President and Vice President are members of the Board who are elected by the Board to serve in those capacities. Under the new structure, a total of eight Directors will be elected by the general membership to four-year terms. Board elections will be staggered every two years to elect four Directors each. To be eligible for President or Vice President, a candidate must have served at least two years on the board at the time of election. The purposes of these changes were to put the election of the officers directly in the hands of the general membership, to improve continuity, and to coordinate officer terms with the major Branch function of participation in the World’s Poultry Congress.

In Fall of 1998, five new board members were elected to the USA Branch of WPSA Board of Directors. Four will serve a full four-year term, and one will serve a two-year term to balance the Board in the year 2000. We congratulate Sarge Bilgili, Bill Weaver, Andrew Giesen, Ralph Ernst, and Karl Nestor on their election.

**Message from the Past-President, Daniel L. Fletcher**

As the outgoing President of the USA Branch of WPSA, I would like to formally thank the Board of Directors and the membership for their support and hard work. I would like to especially thank the outgoing board members who completed their four-year terms this past fall. It was a pleasure and an honor to work with such a dedicated group of professionals as Don Bell, Richard Reynolds, Richard Forsythe, Ken Kruger, Milt Sunde, and the late Art Maurer.

One individual who deserves special recognition and has earned the gratitude of the entire USA Branch is Richard Reynolds. In addition to his duties as a member of the Board, he also selflessly took on the added duties of Secretary-Treasurer when the Branch was in dire need of a replacement. Rich was also responsible for handling our youth programs for the past two congresses and did an outstanding job. I hope each member will join me in thanking Rich for his efforts on behalf of our Branch.

During the past four years, the Branch has sometimes struggled, has undergone a number of changes, and has experienced several major successes. We had a very successful participation in the World’s Poultry Congress in India in 1996, with the USA having the largest foreign delegation. The USA Branch supported the travel of approximately 20 scientists and two graduate students to participate in the congress. In addition, two of our members were elected as WPSA officers: Francine Bradley as Treasurer of WPSA and Herb Siegel as Vice President of WPSA. The board and new officers are well on their way to organizing our Branch participation in the next congress in Montreal in the year 2000.

In addition to a restructuring of the Board and officer elections, we have also contracted membership management services with the Federation of Animal Science Societies (FASS). This change was necessary due to problems associated with maintaining voluntary Secretary-Treasurer duties, membership information, collection of dues, and general business functions for a modern society. Leading this transition is the current Secretary-Treasurer, Richard Forsythe, whose long term commitment, service, and history with the USA Branch is so fundamental to our future success. Hopefully, this restructuring will help to eliminate some of the membership problems experienced by many of our members over the past six years. The journals are now arriving on time, dues collections are going smoothly, and communications have been improved. I thank those members who stood by us during some of these more difficult times.

I am proud to have had the opportunity to serve as President of this organization for the past four years. The Branch is fiscally healthy, membership is on the rise, and the future looks bright indeed. I thank all of the members for their support and will be forever grateful for the honor of having been allowed to serve as your President.
USA Branch Board

Gerald Havenstein, President, NC State University, Raleigh, NC (2000)*
David May, Vice President, USDA Poultry Research Unit, Mississippi State, MS (2000)
Richard Forsythe, Secretary/Treasurer, Arkansas Research Management, Fayetteville, AR (2000)
Dan Fletcher, Past-President, University of Georgia, Athens, GA (2000)
Keith Rinehart, Perdue Farms, Salisbury, MD (2000)
Jerry Sell, Iowa State University, Ames, IA (2000)
Bill Weaver, Retired, Gloucester, VA (2000)
Sarge Bilgili, Auburn University, Auburn, AL (2002)
Ralph Ernst, University of California, Davis, CA (2002)
Karl Nestor, The Ohio State University, Wooster, OH (2002)

Ex Officio Members of the USA Branch Board

Herb Siegel, Vice President WPSA, Pennsylvania State University, University Park, PA
Francine Bradley, Treasurer WPSA, University of California, Davis, CA
William Stadelman, USA Branch Historian, Purdue University, West Lafayette, IN
Kris Fritts, Student Representative, University of Arkansas, Fayetteville, AR
Charles Sapp, FASS, Savoy, IL

Several Congress Committees have been appointed, including:

The Participation Committee: This committee will consist of all current USA WPSA Board members. Board members (or their proxies) will serve as voting delegates at the official WPSA Council Meeting during the Montreal Congress.

The Youth Participation Committee: Michael Darre, Chair, University of Connecticut, Storrs, CT
Gary Davis, North Carolina State University, Raleigh, NC
John Carey, Texas A&M University, College Station, TX
Jesse Lyons, University of Missouri, Columbia, MO

Travel Grants Committee:
Sarge Bilgili, Chair, Auburn University, Auburn, AL
Daniel Fletcher, University of Georgia, Athens, GA
Herb Siegel, Pennsylvania State University, University Park, PA
Karl Nestor, The Ohio State University, Wooster, OH

The Travel Grants Committee will provide submission dates, submission guidelines, and the timeframe for the travel grant reviews to the membership before the Arkansas PSA Meeting. The Board approved travel grants, up to a maximum of $1,000 per recipient, for the Montreal Congress. All grants will be based on poster submissions for the Congress. The recipient must be a dues-paying member during 1999, must be the presenting author, must actually participate in the Congress, must have the poster accepted by the Canadian Branch for inclusion in the Congress Proceedings, and must follow all of the requirements of the Congress in order to receive the travel grant money.

Dues Increase
USA Branch dues have been increased by Board action from $20 to $25 beginning with the year 2000 in order to cover a $5 increase in WPSA dues.

Condolences
Our sympathies go out to Wade Brandt, a charter member and former president of the USA Branch Board, as well as former Treasurer and Assistant Secretary of the WPSA (1978–96), on the death February 6, 1999, of his wife of 58 years, Verna Mae. Remembrances can be sent to the University Farm Circle Scholarship Fund in care of Elizabeth Sagehorn, 43377 Walnut Lane, Davis, CA 65616.

*Year term expires.

Youth Participation in WPSA
First of all, I would like to introduce myself. My name is Chris Fritts, and I am a graduate student at the University of Arkansas. I am also the student representative to the Board for the USA Branch of the WPSA. The objectives of the WPSA are to promote the advancement of knowledge of all aspects of poultry science and the poultry industry.

As a graduate student, I want to encourage university students (graduate or undergraduate) to become members of WPSA. Student membership dues are only $10 a year. The benefits you gain as a member are numerous. First, you receive the World’s Poultry Science Journal four times per year. This journal publishes review articles, which provide excellent opportunities to keep informed on current issues in poultry science. Graduate students have the opportunity to publish their own literature reviews in the WPSA Journal. By becoming a member this year, you will also be eligible to compete for a travel grant to attend the WPSA Congress in Montreal, Canada (August 20-25, 2000). Membership in WPSA can also be placed on your resume to show your interest in international agriculture.

Again, I want to encourage all students with an interest in poultry science to become members of WPSA.

WPSA Lecturer at the Arkansas PSA Meeting:

Bruce Sheldon, CSIRO, NSW, Australia, has agreed to be the speaker for the WPSA Lecture at the PSA Meeting in Arkansas this summer. The title of his presentation is “Research and Development in 2000: Directions and Priorities for the World Poultry Science Community.”

Reminder
In order to be considered for a WPSA Travel Grant to the Montreal Congress, one must be a dues-paying member of the USA Branch during calendar year 1999. The membership application form is available in the January 1999 PSA Newsletter.
**News & Notes**

**Maryland**

Hyun S. Lillehoj, research immunologist with The Immunology and Disease Resistance Laboratory, Agricultural Research Service, USDA, Beltsville, was recognized by the agency for developing and transferring technologies that will lead to more effective vaccines against poultry diseases, particularly coccidiosis. Lillehoj received a cash award and a plaque from the agency for getting research results into the marketplace pipeline. Internationally, coccidiosis costs the poultry industry an estimated $600 million in low carcass weights and prophylactic drugs. The drugs are losing their effectiveness as the coccidia parasites are rapidly developing resistance. Lillehoj custom-built molecules called monoclonal antibodies (mAb). These antibodies bind to chicken lymphocytes — infection-fighting cells — indicating how the bird’s immune system operates before and after infection. The agency patented the invention, and the technology has been licenced to a U.S. company. Lillehoj was the first to develop a new technology to make hybrid cells that produce chicken mAb, rather than conventional mAb from the mouse. She found that one of these antibodies detects a protein on the coccidia parasite that promises to be useful in controlling infection. This discovery opens up a whole new area of poultry disease control because researchers can now identify the molecules on infectious agents that actually trigger a chicken’s immune system. Lillehoj is a member of the Poultry Science Association and has served on its Editorial Board. She is also a member of the American Association of Immunologists and The American Association of Avian Pathologists.

**Wisconsin**

Owen R. Fennema, professor emeritus in the Department of Food Science, University of Wisconsin, was recently appointed as Scientific Editor of the Institute of Food Technology’s (IFT) *Journal of Food Science (JFS)*. In the near future, he will focus on increasing the number of manuscript submissions, determining the feasibility of publishing *JFS* monthly, expediting the manuscript review process, and initiating ways to elevate the status and relevance of major sections of *JFS*, perhaps by creating separate journals. Founded in 1939, IFT is a nonprofit scientific society with 28,000 members working in food science, technology, and related professions in industry, academia, and government. As the society for food science and technology, IFT brings sound science to the public discussion of food issues, such as food safety and food engineering.

**New Edition of Animal Care Guide**

The Federation of Animal Science Societies (FASS) is pleased to announce the completion of the first revised edition of the *Guide for the Care and Use of Agricultural Animals in Agricultural Research and Teaching*. The first edition of the *Guide* was published in 1988 and was developed as a voluntary guide for agricultural researchers, instructors, and technicians. In the past 10 years, the *Guide* has served as a primary reference on the care and use of major agricultural animal species in the United States in research and teaching that must be conducted in simulated or actual agricultural production settings. The first revised edition, published by FASS, has resulted from a complete and deliberate update of the original *Guide*, although the overall purpose and format of the original work remain the same. The cost of the 150-page reference is $10 (postage and handling included), and copies can be ordered through FASS at 1111 North Dunlap Avenue, Savoy, IL 61874 (217/356-3182; FAX: 217/398-4119; e-mail: fass@assochq.org).

**Workshop on Poultry Neonatal Health and Disease**

The Ontario Association of Poultry Practitioners and the Ontario Veterinary College, Department of Pathobiology, at the University of Guelph, in association with the American College of Poultry Veterinarians, will present a Workshop on Poultry Neonatal Health and Disease. The workshop will be held on June 10–12, 1999 at the Life Learning Center at the Ontario Veterinary College at the University of Guelph. Topics include neonatal physiology, immune competence and vaccinology, the impact of the breeder flock, incubation, hatchery, and management on the health of the young bird, normal behavior, and an extensive overview of critical diseases in the neonatal period. In addition, Dick Julian will be opening his extensive library of Kodachrome slides to hold an informal review session of gross and histological avian pathology. For information, contact Bruce Hunter at 519-824-4120.
Coming Events!

May 16-19, 1999
Genetics Vision Symposium. Iowa State University, Ames, IA. For information, contact Visions, 2255 Kildee Hall, Ames, IA 50011-3150; Telephone: 515-294-6202; FAX: 515-294-2401; e-mail: visions@iastate.edu; web site: www.public.iastate.edu/~ans/graduate/visions.html.

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; Telephone 1-800-359-2968.

June 10-12, 1999
Workshop on Poultry Neonatal Health and Disease. Life Learning Center, Ontario Veterinary College, University of Guelph, Guelph, Ontario. For information contact Bruce Hunter, Department of Pathobiology, Ontario Veterinary College, Guelph, Ontario, N1G 2W1; Telephone: 519-824-4120, ext. 4625.

June 15-18, 1999

July 8-9, 1999
International Blood Testing Workshop. Amsterdam, The Netherlands. 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: 785-532-5681; 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

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, 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.

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. University of Wisconsin, River Falls. For information, contact P. C. Vasavada, Animal and Food Science Department, University of Wisconsin, River Falls, WI 54022; Telephone: 715-425-3150; Telephone: 715-425-3372; e-mail: Purnendu.C.Vasavada@uwrf.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, Quebec, Canada H2Y 2J7.
Techniques for Semen Evaluation, Semen Storage, and Fertility Determination

M. R. Bakst and H. C. Cecil, editors

PSA is excited about its newest publication - a lab manual! This manual is a companion volume of the book, First International Symposium on the Artificial Insemination of Poultry, and workshops held during that symposium (University of Maryland-College Park, 1994). It is a comprehensive, 100-page manual that provides a step-by-step approach to the commonly used semen evaluation and storage procedures. The more novel techniques that assess semen quality and fertility are also described in detail.

The Lab Manual contains sections on the following topics:

* Semen Collection and Dilution
* Determination of Sperm Concentration
* Sperm Viability
* Sperm Motility and Metabolism
* Evaluation of Semen from Nondomestic Birds
* Semen Cryopreservation
* Predicting Fertility

It is ideal for use in the classroom and laboratory, and is a must for educators, commercial breeders, research scientists, geneticists, managers, and producers.

The manual can be purchased for $12, and there is a 25% discount for orders of 10 or more. Buy the book and manual for only $40 (a savings of $7)! Pre-order your copy of the manual by completing the following form and sending it to: PSA, 1111 North Dunlap Avenue, Savoy, IL 61874, phone 217-356-3182, or fax 217-398-4119.

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