

The Pennsylvania Academy of Science



The Pennsylvania Academy of Science



News from the cave... (office of PAS President Mike Campbell)

PAS Meeting News

My term at the helm of PAS has passed swiftly and thanks to the generous service of our hard-working all-volunteer Board, we have an excellent program in place for the 88th Annual Meeting, to be held on March 30-April 1 at the campus of Cedar Crest College in Allentown. Check-out the program schedule here or on the PAS website and make sure you deliver your registration and fees payment before **March 15!** You can go to the PAS website at <http://pennsci.org> for details about meeting and hotel registration. An optional field trip to Hawk Mountain is planned for Friday afternoon, and other special program features including a workshop for teachers at the DaVinci Science Center, and much more. Please check out all the activities in the meeting overview posted herein. Thanks much to Joy Karnas and Andre Walther of Cedar Crest College for all of the hard work they put into planning this excellent slate of activities! And it looks like we will be shifting our meeting location west to the campus of Pitt-Bradford for our 2013 meeting – with events and symposium focusing on energy issues in Pennsylvania.



Historic changes to PAS Journal in the works

Since the initial establishment of the Pennsylvania Academy of Science (PAS) in 1924 by a diverse group of distinguished Pennsylvania scientists in academia and state government agencies, the organization has defined its mission as the promotion of dialogue between persons engaged in scientific work especially relevant to the Commonwealth and to provide means for publishing reports of those investigations. The PAS has faithfully carried out this mission for 87 years through the venues of its annual meeting and regular publication of its journal. The first 61 volumes of the printed journal were published under the title of the *Proceedings of the Pennsylvania Academy of Science* from 1925 through 1987, and since 1988 (23 additional volumes) as the *Journal of the Pennsylvania Academy of Science*.

The year 2012 will be a new milestone in the history of the PAS, as our organization abandons the costly tradition of a print journal to plunge into the modern (and more environmentally sound) waters of digital publication. The current leadership of the PAS believes that this change makes sense for the PAS for many reasons. We hope that the new venue will increase the journal's accessibility and use as a publication outlet for Pennsylvania scientists in government, industry, and academia, and that the citizens of Pennsylvania will benefit by gaining open access to reports of PA-relevant scientific work.

The Pennsylvania Academy of Science

An invitation to submit manuscripts to the open-access *Journal of the Pennsylvania Academy of Science*

Dear Colleagues,

I want to thank Dr. Shyamal Majumdar for his dedicated service as journal and book editor. His breadth and depth of knowledge about publishing scholarly works is truly astounding.

As the new editor for the journal I would like to extend an invitation to publish in the *Journal of the Pennsylvania Academy of Science*. Instructions for manuscript submission can be found on the academy's web site and on the following page.

In 2012 the journal will be open-access. It will continue to feature works of significance, originality, and relevance in all areas of biological science, chemistry, physics, geography, geology, curriculum and pedagogy. The journal will be published quarterly and will be found on the academy's web site. It will continue to disseminate significant research and original papers, research notes and case studies that can be of interest to a wide audience of scientists.

Scientists submitting manuscripts will benefit from:

- Open access to all published contents ensuring the widest possible, barrier-free distribution of works at no charge to any readers
- Online submission and editorial management system, professional review and editorial assistance, typesetting, proofreading and publication.

Address all inquiries relating to publication in the *Journal* to the Editor:

Jane E. Huffman
Department of Biological Sciences
Northeast Wildlife DNA Laboratory
East Stroudsburg University
East Stroudsburg, PA 18301
Phone: 570-422-7892
e-mail: jhuffman@esu.edu



The Pennsylvania Academy of Science Annual Meeting

at CEDAR CREST COLLEGE
MARCH 30 – APRIL 1, 2012



Meeting Features:

- Conveniently located on the beautiful [Cedar Crest College](#) campus in Allentown, PA
- Friday Field Trip to [Hawk Mountain](#) (additional fee)
 - Learn about turkey vulture migration and see raptors up close
- Friday Night Reception at the [Da Vinci Science Center](#)
 - Be inspired by science's "ExSCItIng Possibilities"
- Saturday and Sunday Student, Faculty, and Affiliate Presentations
 - New for this year: student poster and presentation awards
- Saturday Panels for Students (lunch Included)
 - Discover graduate school and career possibilities
- Faculty Data Blitz
 - PI's overview recent advances in their labs
- Saturday Night Keynote Speaker: [Laura L. Mays Hoopes](#), Ph.D. (dinner included)
 - Author of the memoir "*Breaking Through the Spiral Ceiling: An American Woman Becomes a DNA Scientist*"
- Saturday PJAS Teachers Workshops
 - A joint venture of PAS, PJAS, and The Da Vinci Science Center
- Sunday Awards Ceremony for Student Presentations (lunch available for additional fee)

Meeting Details:

Location: Cedar Crest College, Allentown, Pennsylvania

Member Cost: \$110 (includes \$35 membership)

Student Cost: \$82 (includes \$17.50 membership)

Meals: Saturday lunch and dinner included in registration

Hotel: [Wingate by Wyndham](#) (\$79 per night, includes breakfast)

Look for more information on the PAS website
(www.pennsci.org/).



**The Pennsylvania Academy of Science Annual Meeting: March 30-April 1, 2012
Cedar Crest College, Allentown, PA**

Meeting Location: Cedar Crest College

- Located in the Lehigh Valley in Allentown, PA
- Close to I-78, I-22, and the PA Turnpike
- Beautiful campus that is a nationally recognized arboretum
- Meeting rooms: technology-equipped large lecture halls arranged in a single building complex
- Poster session: large gymnasium in building adjacent to the meeting halls
- Restaurants and hotels located within 1-2 miles of campus

Field Trip: Hawk Mountain Sanctuary (Additional Cost \$10)

- Open start time (arrive at your own convenience)
- 15 minute drive off of I-78
 - En route for points west
 - About 40 minutes from Cedar Crest campus
- Rain plan: stay indoors at Visitor Center

Field Trip Schedule:

- 12-2pm: North Lookout
 - Self-guided hike
 - About 1 mile (with other trail possibilities)
- 2pm: South Lookout – Guided hike
 - About 300 yards
 - Learn about the history of Hawk Mountain and migration
- 3pm: Raptor Program at the Visitor Center
- 4pm: Turkey Vulture Migration Research Findings



Friday Night Social Mixer: Da Vinci Science Center

- Tour the science center
- Mingle with other scientists
- Hors d'oeuvre served
- Welcoming remarks to kick-off the 88th Annual Meeting

**The Pennsylvania Academy of Science Annual Meeting: March 30-April 1, 2012
Cedar Crest College, Allentown, PA**

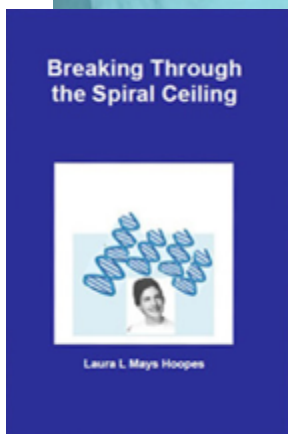


Molecular Biologist

Laura L. Mays Hoopes

Plenary Session Speaker

Dr. Laura L. Mays Hoopes will deliver the plenary talk on Saturday, March 31st at the Pennsylvania Academy of Science Annual Meeting at Cedar Crest College. Dr. Hoopes is the author of the memoir *Breaking Through the Spiral Ceiling: An American Woman Becomes a DNA Scientist* and is currently the Halstead-Bent Professor of Biology at Pomona College in Claremont, CA.



Dr. Hoopes received the AB from Goucher College in biological sciences and an NSF Graduate Fellowship for her PhD from Yale University. She was then an NIH Postdoctoral Fellow at Scripps Clinic and Research Foundation and at the University of Colorado Medical School. In 1973, she joined the faculty at Occidental College and rose through the ranks there until 1993, when she

moved to Pomona College as VP for academic affairs and dean of the college; she served in that capacity until 1998 when she returned to the faculty.

Dr. Hoopes research focuses on the molecular mechanisms of aging in yeast and how the aging clock can be reset. Her laboratory uses a variety of molecular techniques – including 2D gel electrophoresis, microarray analysis, and real time PCR methods – to investigate genomic instability and alteration of gene regulation.

**The Pennsylvania Academy of Science Annual Meeting: March 30-April 1, 2012
Cedar Crest College, Allentown, PA**

Student Poster and Oral Presentation Competitions at 2012 PAS meeting

This year will be the first year in which students (undergraduate and graduate) presenting posters and oral presentations will be able to compete for prizes for best poster and oral presentation. Prizes will be given for the top three posters in each poster session and for the top three oral presentations by students for the meeting. Students in the poster session will be judged based on the visual quality of their poster and their ability to describe their project and answer questions about it. Oral presentations will be judged on the quality of the oral presentation. To be eligible, the student must be the presenter and first author.

Judges needed for PAS Student Poster and Oral Presentation Competition

Numerous judges are needed to judge the posters and oral presentations of student competitors at this year's PAS meeting. Judges will be needed in each oral session as well as poster session. Faculty, senior researchers, and senior level graduate students who are not enrolled in the competition are eligible to judge. The more volunteers we have, the less work per individual judge. You can volunteer to be a judge by indicating your availability when you pick up your registration packet.

PJAS Teacher Workshop

Plans are under way for the PJAS Teacher Workshop, "Winds of Change" to be held during the PAS 88th Annual Meeting at Cedar Crest College, Allentown, PA, 30 March to 1 April 2012. Once again, Act 48 credits will be available for teachers who meet the criteria.

The PJAS Teacher Workshop will meet on Saturday, 31 March 2012, in the Da Vinci Science Center, which is located across a parking lot from Cedar Crest College. Workshop sessions are scheduled from 9:00 AM through 4:00 PM. Speakers include PJAS members and education specialists from the Da Vinci Science Center. Current topics include: School Science Fair, Inquiry, and Science Notebook. The workshop theme is "Celebrating Women in Science."

In its second year, the PJAS Teacher Workshop is a new partnership between PAS and PJAS. Last year's workshop at Penn State-Altoona was a great experience for those in attendance. The outstanding speakers included two PJAS members, Sue Morgan and Alice Flarend, and two of Sue's students.

All registered PJAS and PAS members are eligible to attend the PJAS Teacher Workshop. The fee for the workshop is \$25.00, which includes a bag lunch, and the registration form and full program can be accessed on the PAS website (www.pennsci.org/) or on the following pages of this newsletter.

For more information, please contact Vivian Coxe, Liaison for PAS/PJAS Teacher Workshop, at vivian.coxe@comcast.net.



**88th Annual Meeting
Pennsylvania Academy of Science
Cedar Crest College – Allentown, PA
Winds of Change: PJAS Teacher Workshop
31 March 2012 – Da Vinci Science Center**

- Topics:**
- 1. Developing Critical Thinking Skills**
 - 2. Celebrating PA Women in Science**

Presider: Vivian B. Coxe, Liaison for PAS/PJAS Teacher Workshop
Vivian.Coxe@comcast.net

Program

Session I: 9:00 am – 10:30 am, Da Vinci Science Center

- | | |
|----------------------------|--|
| 9:00 am – 9:10 am | Sign-in, meet and greet |
| 9:10 am – 9:20 am | Welcome, introduction |
| 9:20 am – 9:30 am | Spotlight on PA Women in Science: Sue Morgan, 6-8 Middle School Science Teacher, St. Elizabeth's Elementary School, Pittsburgh, PA |
| 9:30 am – 10:15 am | Sue Morgan – “A School Science Fair: Positive Outcomes for Everyone” |
| 10:15 am – 10:30 am | Robert B. Coxe - Ecologist, Delaware Natural Heritage and Endangered Species Program – “To Have a Control or Not” |
| 10:30 am – 10:45 am | Break |

Session II: 10:45 am – 12:00 pm, Da Vinci Science Center and Cedar Crest College

- | | |
|----------------------------|---|
| 10:45 am – 10:55 am | Spotlight on PA Women in Science: Rachel Carson (1907-1964) – Writer, biologist, and ecologist, *started environmental movement |
| 10:55 am – 12:00 pm | Poster Sessions – Lee's Gym, Cedar Crest College |
| 12:00 pm – 1:00 pm | Bag lunch (complimentary with registration) – Cedar Crest College near Lee's Gym |

Session III: 1:00 pm – 2:30 pm, Da Vinci Science Center

- | | |
|--------------------------|--|
| 1:00 pm – 1:30 pm | Special tour of Da Vinci Science Center, meet in lobby |
| 1:30 pm – 1:35 pm | Spotlight on PA Women in Science: Vanoka Morris-Smith, Horticulture Teacher at Blaine School, Strawberry Mansion Environmental Learning Center, Philadelphia, PA |
| 1:35 pm – 2:30 pm | David Smith, Ph.D, Director of Professional Development, Da Vinci Science Center - “Inquiry” |
| 2:30 pm – 2:45 pm | Break |

Session IV: 2:45 pm – 4:00 pm, Da Vinci Science Center

- | | |
|--------------------------|--|
| 2:45 pm – 2:50 pm | Spotlight on PA Women in Science: Lena Fleming Deemer, Chemist (retired), worked with Isaac Asimov during WWII |
| 2:50 pm – 3:45 pm | David Smith, Ph.D, Director of Professional Development, Da Vinci Science Center - “Science Notebook” |
| 3:45 pm – 4:00 pm | Wrap-up, Act 48 forms, evaluation, 2013 workshop |
| 4:00 pm | Adjourn |



88th Annual Meeting
Pennsylvania Academy of Science

“Winds of Change”

FOR HOTEL
REGISTRATION
INFO, GO TO
PAS WEBSITE:
<http://pennsci.org>

**PJAS TEACHER SCIENCE EDUCATION WORKSHOP
REGISTRATION FORM**

March 31, 2012
Cedar Crest College

****PLEASE FILL OUT ONE FORM FOR EACH ATTENDEE!****

**Please provide name & affiliation as you prefer them to appear on your badge. Print clearly.*

*Name: _____

Address: _____

City, State, Zip: _____

*Employer/Affiliation: _____

Email Address: _____ Phone: _____

Pennsylvania Department of Education ID Number: _____

REGISTRATION FEES

- **THERE WILL BE NO ON-SITE REGISTRATION!! YOU MUST PRE-REGISTER BY MARCH 15!**
- Forms **must** be postmarked by **March 15** and sent with payment (payable to *Pennsylvania Academy of Science*) to: Jennifer White, PAS Treasurer, Dept. of Biology, East Stroudsburg University, East Stroudsburg, PA 18301.
- Alternatively, pay using PayPal (fees **must** be submitted on-line by **March 15**) and e-mail this form as an attachment to: jwhite@po-box.esu.edu, or mail it to the above address. Contact Jennifer White with any questions.

Form of Payment (underline one) **1. Check. 2. PayPal** (see <http://pennsci.org/>).

| | |
|--|---------|
| Please check the appropriate box: | |
| Registration <input type="checkbox"/> | \$25.00 |

MEALS

- Saturday lunch is included in the workshop registration. Saturday dinner, which is optional, will include the banquet, speaker, and other fun meeting activities. Please indicate if you plan to attend these meals.

| | |
|---|--|
| <input type="checkbox"/> I will purchase and attend Saturday dinner | <input type="checkbox"/> vegetarian option requested |
|---|--|

- Please list any food allergies _____

FRIDAY FIELD TRIP & RECEPTION (*IF YOU PLAN TO ATTEND, PLEASE REGISTER BY MARCH 1*)

There will be an optional field trip to Hawk Mountain (\$10 additional trail and program fee) on Friday afternoon, and a reception Friday evening at the Da Vinci Science Center (cost is included with registration). Please indicate whether you plan to attend the field trip and/or the reception by checking one or both boxes so that we can plan accordingly.

| |
|---|
| <input type="checkbox"/> I have enclosed \$10 for the Friday field trip |
| <input type="checkbox"/> I will attend the Friday reception |

PAYMENT

Registration \$ _____ + Saturday Dinner \$ _____ + Field Trip \$ _____ :

TOTAL AMOUNT ENCLOSED: \$ _____



**88th Annual Meeting
Pennsylvania Academy of Science
MEETING REGISTRATION FORM**

March 30 – April 1, 2012
Cedar Crest College

FOR HOTEL
REGISTRATION
INFO, GO TO
PAS WEBSITE:
<http://pennsci.org>

****PLEASE FILL OUT ONE FORM FOR EACH ATTENDEE!****

**Please provide name & affiliation as you prefer them to appear on your badge. Print clearly.*

*Name: _____

Address: _____

City, State, Zip: _____

*Employer/Affiliation: _____

Email Address: _____ Phone: _____

REGISTRATION FEES (registration fee *includes* membership this year)

- **THERE WILL BE NO ON-SITE REGISTRATION!! YOU MUST PRE-REGISTER BY MARCH 15!**
- Forms **must** be postmarked by **March 15** and sent with check (payable to *Pennsylvania Academy of Science*) to: Jennifer White, PAS Treasurer, Dept. of Biology, East Stroudsburg University, East Stroudsburg, PA 18301.
- Alternatively, use PayPal (fees **must** be submitted on-line by **March 15**) and e-mail this form as an attachment to: jwhite@po-box.esu.edu, or mail it to the above address. Contact Jennifer White with any questions.

Form of Payment (underline one) **1. Check. 2. PayPal** (see <http://pennsci.org/>). **3. Included in faculty payment**
(provide faculty member's name): _____

| Please check the appropriate box: | dues included | dues already paid |
|-----------------------------------|---------------|-------------------|
| MEMBER | \$110.00 | \$ 75.00 |
| STUDENT | \$ 82.00 | \$ 64.50 |

MEALS

- Saturday lunch and dinner are included in the meeting registration. Saturday dinner will include the banquet, speaker, and other fun meeting activities. Please indicate if you plan to attend these meals. Sunday lunch will be held during the awards ceremony, and will cost an additional \$10.

| | |
|--------------------------------------|---|
| I will attend Saturday lunch | vegetarian option requested |
| I will attend Saturday dinner | vegetarian chicken beef |
| I will purchase Sunday lunch | vegetarian option requested |

- Please list any food allergies _____

FRIDAY FIELD TRIP & RECEPTION

There will be an optional field trip to Hawk Mountain (\$10 additional trail and program fee) on Friday afternoon, and a reception Friday evening at the Da Vinci Science Center (cost is included with registration). Please indicate whether you plan to attend the field trip and/or the reception by checking one or both boxes so that we can plan accordingly.

| |
|---|
| I have enclosed \$10 for the Friday field trip |
| I will attend the Friday reception |

DATA BLITZ

As a new feature for this year's meeting, we are planning a Data Blitz. Active members are encouraged to sign up to provide a 5 minute overview of their research activities. Please indicate if you are interested in participating, and you will be contacted with more information.

| |
|--|
| I would like to participate in the Data Blitz |
|--|

PAYMENT Registration \$ _____ + Sunday Lunch \$ _____ + Field Trip \$ _____ :

TOTAL AMOUNT ENCLOSED: \$ _____

Academy Officers Nominated

Officer nominations to be approved by a vote of the membership at the Spring Business Meeting include the following (terms for two years starting at that meeting):

- a. Past-President: Michael Campbell
- b. President: Robert Coxe
- c. President-Elect: K. Joy Karnas
- d. Recording Secretary: Position Open
- e. Treasurer: Matt Wallace
- f. Treasurer-Elect: Jennifer White
- g. Book Treasurer: Amy Diegelman-Parente
- h. Journal and Books Editor: Jane Huffman
- i. Newsletter Editor: Michael Elnitsky
- j. Directors at Large: Jane Cavender and Alyssa Bumbaugh

Nominee for President – Besides serving as President-Elect for the past two years, Robert Coxe has held other positions in the Pennsylvania Academy of Science, including Corresponding Secretary, Membership Chair, Time and Place Chair, and Affiliates Chair. Robert worked for several years as an ecologist for the Western Pennsylvania Conservancy, contributing to Natural Heritage Inventories for eight different Pennsylvania counties, and has worked most recently as the state ecologist for Delaware.

Nominee for President – Elect K. Joy Karnas has served the PAS Board for five years as Recording Secretary, and led the effort to organize this year's meeting at Cedar Crest. Joy is an Associate Professor of Biology at Cedar Crest College and Director of the Genetic Engineering Program.

Nominee for Past – President Mike Campbell is the current PAS President and previously Recording Secretary. He is Professor of Biology at Mercyhurst University.

Nominee for Editor of PAS Journal and Books – Jane Huffman is already serving as Interim-Editor, and served the PAS previously as President, Newsletter Editor, and Book Treasurer. Jane is Professor of Biology at East Stroudsburg University and works with the Northeast Wildlife DNA Laboratory.

Nominee for Recording Secretary – Ed Levri is currently serving as Director at-large, and was the primary site organizer for the 2011 PAS meeting held at Penn State Altoona, where he is an Associate Professor of Biology.

Nominee for Treasurer – Matt Wallace has currently been serving as Treasurer-Elect and served previously as Treasurer; he is also Chair of the Constitution and Bylaws Committee. Matt is an Associate Professor of Biology at East Stroudsburg University.

Nominee for Newsletter Editor – Mike Elnitsky has already been serving as Interim Newsletter Editor over the past year: he is an Assistant Professor of Biology at Mercyhurst University.

PROPOSED CHANGES TO THE PAS CONSTITUTION AND BY-LAWS
Matt Wallace and Robert Coxe

The proposed changes will be voted upon by PAS members at the spring business meeting held at the Annual Meeting of PAS (March 30-April 1, 2012).

PROPOSED CONSTITUTION CHANGES:

ARTICLE II – MEMBERSHIP

OLD LANGUAGE: SECTION 1 Membership to the Academy shall be made up of the following classes: a. active members; b. student members; c. life members d. honorary members; e. emeritus members; f. sustaining members; and g. institutional members; and h. libraries

EXPLANATION: Part “h” was deleted since the journal will be open access accessible by all:

REVISED LANGUAGE: SECTION 1 Membership to the Academy shall be made up of the following classes: a. active members; b. student members; c. life members d. honorary members; e. emeritus members; f. sustaining members; and g. institutional members.

OLD LANGUAGE: SECTION 5 Any library and/or other subscriber interested in receiving the Journal and Newsletter shall receive the publications when paying the Library Rate.

EXPLANATION: This section was re-written since the journal will be open access:

REVISED LANGUAGE: SECTION 5 Members in current standing will be allowed to attend the annual meeting.

OLD LANGUAGE: SECTION 12 The privilege of voting in the Academy shall be restricted to the classes of: active, life, sustaining, emeritus and honorary membership who are in good standing prior to the Annual Meeting. The privilege of speaking from the floor at meetings of the Academy shall be available to all classes of membership.

EXPLANATION: To accommodate students as voting members, appropriate changes were made.

REVISED LANGUAGE: SECTION 12 The privilege of voting in the Academy shall be restricted to the classes of: active, life, sustaining, student, emeritus and honorary membership who are in good standing prior to the Annual Meeting. The privilege of speaking from the floor at meetings of the Academy shall be available to all classes of membership.

ARTICLE VII - DUTIES OF COUNCILS AND COMMITTEES

The Pennsylvania Academy of Science

OLD LANGUAGE: SECTION 4 The Editor shall study all manuscripts submitted to determine their quality and suitability for publication in the *Journal*. The Editor shall appoint an Editorial Committee. The purpose of the Editorial Committee will be to advise the Editor.

EXPLANATION: “Manuscript” changed to “submissions” (Electronic documents can be collections of various forms of media and can include more than a manuscript, which generally refers to a paper report.)

REVISED LANGUAGE: SECTION 4 The Editor shall study all submissions to determine their quality and suitability for publication in the *Journal*. The Editor shall appoint an Editorial Committee. The purpose of the Editorial Committee will be to advise the Editor.

ARTICLE IX – PUBLICATIONS

OLD LANGUAGE: SECTION 4 As a privilege of membership, the *Journal* and Newsletter shall be distributed gratis to all Academy members in good standing. Emeritus members receive the Newsletter but not the *Journal*. Books and other publications shall be sold to members at a predetermined price.

EXPLANATION: The opening sentence was edited to accommodate for an open access journal:

REVISED LANGUAGE: SECTION 4 Current members will be able to publish in the open access *Journal of the Pennsylvania Academy of Science*, as a privilege of membership. Books and other publications shall be sold to members at a predetermined price.

**ARTICLES OF INCORPORATION FOR
THE PENNSYLVANIA ACADEMY OF SCIENCE AND
CONSTITUTION AS ADOPTED MAY 2, 1975
AND
AS AMENDED APRIL 11, 1983
APRIL 13, 1987; APRIL 16, 1988; and April 5, 1992**

Articles of Incorporation

OLD LANGUAGE: 1. The initial registered office of the corporation is in Easton, Pennsylvania with post office address as follows: Lafayette College, Easton, Pennsylvania.

EXPLANATION: Since the address of the current Journal Editor, Treasurer, and Treasurer-Elect are all at East Stroudsburg University, it is proposed that the registered office of the academy be changed accordingly:

The Pennsylvania Academy of Science

REVISED LANGUAGE: 1. The registered office of the corporation is in East Stroudsburg, Pennsylvania with post office address as follows: Biological Sciences, 200 Prospect Street, East Stroudsburg, Pennsylvania 18301.

PROPOSED BY-LAWS CHANGES:

Article II. MEMBERSHIP (ref.: Article II, PAS Constitution)

OLD LANGUAGE:

A. Active members: Members whose current dues are paid are Active Members in Good Standing and shall enjoy all rights, privileges, and responsibilities of membership in the Academy including subscription to the Academy's Journal and Newsletter.

B. Emeritus members: In order to obtain emeritus status, a member shall request it in writing indicating the length of membership in the Academy and the activities in which the member participated. Such a request shall be forwarded to the Corresponding Secretary no later than September 1 if it is to take effect on January 1 of the following calendar year. The request shall be presented for action at the Fall meeting of the Board of Directors. The action of the Board shall be conveyed to the applicant no later than 30 days after the meeting. With the exception of receiving the Journal, emeritus members shall have the same rights and privileges as active members, but are not required to pay dues.

D. Institutional members: Any institution (business, educational institution, foundation, or governmental agency) may join the Academy by making annual contributions of no less than five times the active membership fee. Institutional members are entitled to receive the *Newsletter*, the *Journal* and an annual choice of one book published by the Academy. A non-profit scientific or educational organization may become an institutional member by paying the library dues rate. Such an institutional member will be entitled to receive the *Newsletter* and *Journal*. The gratis book is NOT applicable. For meetings of the Academy, each institutional member may designate one person as its representative who will be registered at the standard member rate.

EXPLANATION: Since the journal will be open access, appropriate changes were made:

NEW LANGUAGE:

A. Active members: Members whose current dues are paid are Active Members in Good Standing and shall enjoy all rights, privileges, and responsibilities of membership in the Academy including the Academy's Journal and Newsletter.

B. Emeritus members: In order to obtain emeritus status, a member shall request it in writing indicating the length of membership in the Academy and the activities in which the member participated. Such a request shall be forwarded to the Corresponding Secretary no later than September 1 if it is to take effect on January 1 of the following calendar year. The request shall be presented for action at the Fall meeting of the Board of Directors. The action of the Board shall be conveyed to the applicant no later than 30 days after the meeting.

D. Institutional members: Any institution (business, educational institution, foundation, or governmental agency) may join the Academy by making annual contributions of no less than five times the active membership fee. Institutional members are entitled to receive an annual choice of one book published by the Academy. A non-profit scientific or educational organization may become an

The Pennsylvania Academy of Science

institutional member by paying the library dues rate. The gratis book is NOT applicable. For meetings of the Academy, each institutional member may designate one person as its representative who will be registered at the standard member rate.

OLD LANGUAGE:

E. Library membership: Libraries may become library members by payment of the library rate as set by the Board of Directors. They are entitled to receive the Newsletter and the Journal. They may purchase books published by the Academy at the regular prices. Representatives of libraries are welcome at the meetings of the Academy. If they are not personally members of the Academy, they shall register as the standard non-member rate.

EXPLANATION: This by law should be deleted since there will be no library memberships.

OLD LANGUAGE: F. Student members: Full-time undergraduate and graduate student members may participate in the discussions at meetings, but have no vote. Their dues are set at half of the dues paid by active members. They are entitled to receive the Newsletter and the Journal.

EXPLANATION: Changes were made since the journal will be open access. Students should be given the right to vote to encourage participation:

NEW LANGUAGE: F. Student members: Full-time undergraduate and graduate student members may participate in the discussions at meetings, and they have the right to vote. Their dues are set at half of the dues paid by active members. They are entitled to publish in the Newsletter and the Journal.

Article VI. PUBLICATIONS (ref: Article IX, PAS Constitution)

OLD LANGUAGE: A. Page Charges: At the Fall meeting of the Board of Directors, the editor of the *Journal* together with the Treasurer shall submit an analysis of the cost of publishing the most recently completed volume of the *Journal* and the amount of page charges collected. At that time, page charges for the following year's volume shall be set. A preferential rate is given to members.

EXPLANATION: Since there will be no page charges other than membership fees, this by-law should be deleted.

ADDENDUM:

PROPOSED BY-LAWS CHANGES:

Article II. MEMBERSHIP (ref.: Article II, PAS Constitution)

OLD LANGUAGE:

D. Institutional members: Any institution (business, educational institution, foundation, or governmental agency) may join the Academy by making annual contributions of no less than five times the active membership fee. Institutional members are entitled to receive the *Newsletter*, the *Journal* and an annual choice of one book published by the Academy. A non-profit scientific or educational organization may become an institutional member by paying the library dues rate. Such an institutional member will be entitled to receive the *Newsletter* and *Journal*. The gratis book is NOT applicable. For meetings of the Academy, each institutional member may designate one person as its representative who will be registered at the standard member rate.

F. Student members: Full-time undergraduate and graduate student members may participate in the discussions at meetings, but have no vote. Their dues are set at half of the dues paid by active members. They are entitled to receive the *Newsletter* and the *Journal*.

EXPLANATION: After recent new language for the BY-LAWS was proposed via the PAS newsletter, the wording of some new language was questioned by members. One concern was that Institutional members cannot pay a “library dues” rate because there is no longer such a rate as a result of the PAS journal changing to an online format. Another concern was that the category of student members shouldn’t be limited to full-time undergraduate and graduate students only. Changes are reflected below.

NEW LANGUAGE:

D. Institutional members: Any institution (business, educational institution, foundation, or governmental agency) may join the Academy by making annual contributions of no less than five times the active membership fee. Institutional members are entitled to receive an annual choice of one book published by the Academy. A non-profit scientific or educational organization may become an institutional member by paying \$45.00. The gratis book is NOT applicable. For meetings of the Academy, each institutional member may designate one person as its representative who will be registered at the standard member rate.

F. Student members: Students at an educational institution that are members of the academy may participate in the discussions at meetings, and they have the right to vote. Their dues are set at half of the dues paid by active members. They are entitled to publish in the *Newsletter* and the *Journal*.

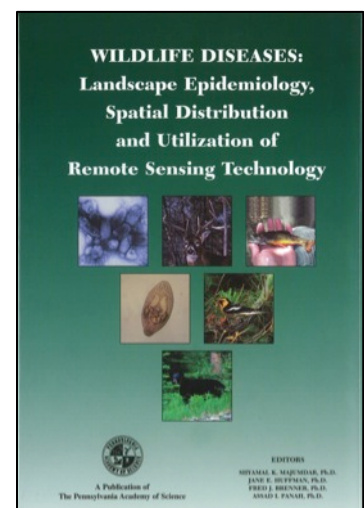
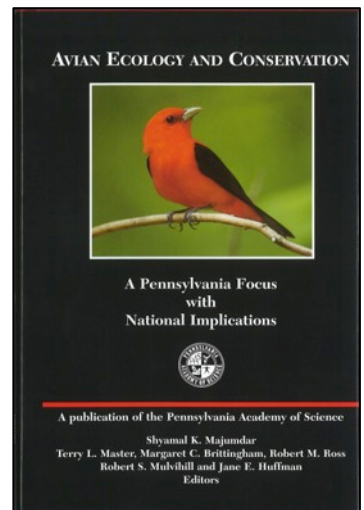
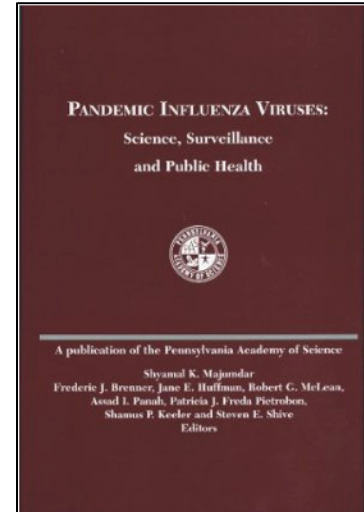
The Pennsylvania Academy of Science

PAS Books on the Move

The PAS recent book publication is now available for purchase through Amazon and the PAS web-site! *Pandemic Influenza Viruses: Science, Surveillance and Public Health*, edited by Shyamal Majumdar (Lafayette College), Frederic Brenner (Grove City College), Jane Huffman (East Stroudsburg University), Robert G. McLean (National Wildlife Research Center), Assad I. Panah (University of Pittsburgh), Patricia J. Pietrobon (Sanofi Pasteur), Shamus P. Keeler (University of Georgia), and Steve Shive (East Stroudsburg University) features introductory chapters on the history and science of influenza diseases, plus contributions on surveillance and tracking technology, public health strategies and planning, and vaccines. This book is a compilation of up-to-date scientific information of pandemic influenza with particular focus on the 2009 pandemic H1N1 virus and the 2005 highly pathogenic H5N1 virus, and contains chapters on the biology, ecology, immunology, and genetics of influenza viruses.

Check out the other recent PAS books on sale through Amazon. *Avian Ecology and Conservation: A Pennsylvania Focus with National Implications* (edited by Shyamal Majumdar, Terry Master, Margaret Brittingham, Robert Ross, Robert Mulvehill, and Jane Huffman) published in 2010 offers 27 chapters by dozens of ornithological experts from Pennsylvania and other states, with cutting edge insights on habitats of PA breeding birds, migration and wintering ecology, conservation issues and challenges, and emerging issues such as climate change, wind power development, contaminants, and emerging diseases. The other recent book to buy is *Wildlife Diseases: Landscape Epidemiology, Spatial Distribution and Utilization of Remote Sensing Technology*, published in 2005. It has been a great seller, but a few copies are still available.

Finally, a unanimous vote at the Fall Meeting of the PAS Board approved advancement of next book project, tentatively entitled *Ecology and Conservation of Pennsylvania's Bats in a Time of Crisis*, with editors Howard P. Whidden (East Stroudsburg University), DeeAnn Reeder (Bucknell University), with Cal Butchkoski and Greg Turner (Pennsylvania Game Commission).



The Pennsylvania Academy of Science

PAS Grant and Prize Opportunities

Darbaker Prize - \$1000

The Darbaker Prize is a Pennsylvania Academy of Science (PAS) award given for outstanding scholarly contributions, which use microscopic techniques and present microscopic illustrations in the reporting of biological research. The award is competitive amongst qualified papers submitted in association with the Academy's annual meeting.

The Pennsylvania Academy of Science established the Darbaker Prize in 1952. Funds for the award are made available through a bequest of the late L.K. Darbaker, 1939 PAS President. Referring to the award, Dr. Darbaker stated: "Any sum applicable to the Pennsylvania Academy of Science shall be for grant or grants in Microscopical Biology."

To qualify for the Darbaker Prize, a scientist or scientists must: (1) have used microscopy (light, SEM, TEM or other technologies) in the research they report, (2) submit in proper format a manuscript reporting the results of the completed study for consideration to be published in the *Journal*, (3) specifically state a request to the Editor of the *Journal* to have their manuscript considered for the Darbaker Prize for the current calendar year, and (4) be a member of the Pennsylvania Academy of Science. Darbaker Prize competition manuscripts are expected to be presented and submitted at the PAS annual meeting, but if not, manuscripts will be accepted for consideration within four weeks (28 calendar days) following the last day of the annual meeting. Only manuscripts that have successfully completed the review process and have been accepted for publication in the *Journal* will be eligible for the award.

For further information contact:
Jane Huffman, PAS Past-President
jhuffman@po-box.esu.edu

PAS Research Grants

Make sure you check out the PAS web-site (under "funding opportunities") for announcements, instructions, and deadlines for our *college and high school student research grants*.

Contact Jane Cavender (Elizabethtown College) for details at cavender@etown.edu

The Pennsylvania Academy of Science

Reminder of PAS Mission

The mission of PAS is to “encourage scientific research; to promote interest in the teaching of science; to stimulate exchange of ideas among those engaged in scientific work especially in Pennsylvania; to assist in the development and distribution of information about the material, educational, and other resource and riches of the Commonwealth; and to arrange and prepare for publication such reports as may further these objectives, all of which purposes do not contemplate pecuniary gain or profit, incidental or otherwise, to the members of the corporation.” *Excerpt from PAS Constitution*

Pennsylvania Academy of Science Annual Fund Campaign

Fellow members of the Pennsylvania Academy of Science:

I would like to thank all of those who contributed to our Annual Fund Campaign and to ask for your continued support. In order to adequately fund our undergraduate research program, we need to increase our Undergraduate Research Endowment. Currently we are funding the Journal with the operating fund of the Academy, but we would like to be able to create a sufficient endowment so that the interest can be used to support our excellent peer reviewed journal. The executive board of the Academy established the annual fund drive to increase our endowment for undergraduate research and to endow the Journal of the Pennsylvania Academy of Science. It is our desire to have the journal be self-sufficient and to be supported entirely through interest from our recently established Journal of the Pennsylvania Academy Endowment.

If you would like to contribute to either of these endowment funds please print off and complete the form on the following page.

Thank You. Fred J. Brenner, Past PAS President

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**2012 Annual Dues Notice
Pennsylvania Academy of Science**

- ___ Active Membership, active or associate \$35.00
___ Sustaining Membership \$40.00 or more
___ Student Membership \$17.50
___ Library or Institutional Membership \$45.00
___ Life Membership (installment plan available) \$525.00
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I am a member of ___ AAAS, ___ PSTA, ___ PASA, ___ Pa. Wildlife Society
___ SCST (Pa.), ___ Pa. Biol Survey, ___ PAEP
(This information influences our grant support for research)

Name: _____ Institution: _____

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Please print this sheet and mail with check payable to **Pennsylvania Academy of Science** to:

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