The Pennsylvania Academy of Sciences Celebrates Research at Cedar Crest: A College for Women

The 2012 Conference Theme: Women in Science

- The conference is being held on the Cedar Crest College campus, a college for undergraduate women that has a strong science program with specialty majors in Genetic Engineering, Neuroscience, Biodiversity and Conservation Biology, and Biochemistry, as well as a concentration in Forensic Science, and traditional majors in Biology and Chemistry.
- A lunchtime career panel will feature women scientists who will speak about their careers and educational backgrounds.
- The “Winds of Change” PJAS Teacher Workshop will spotlight Pennsylvania Women in Science.
- The Keynote Speaker, Laura L. Mays Hoopes, Ph.D., will discuss issues that she has faced as a female scientist, using her book “Breaking Through the Spiral Ceiling: An American Woman Becomes a DNA Scientist.”
Support provided by the following

Donated items from:

Sigma-Aldrich
Carolina®
New England Biolabs Inc.
Fisher Scientific International Inc.

Cedar Crest College Beta Beta Beta Honor Society
Cedar Crest College Chemistry Club
Cedar Crest College Forensic Science Student Association
Cedar Crest College Genetic Engineering Club
East Stroudsburg University Biology Club
Ritterbin Photography
Wild Resource Conservation Program

Food Services (& discounts) by:

Cactus Blue
Emmaus Bakery
La Dolce Vita Italian Bakery
Parkhurst Dining Services

A special thanks to the many, many Cedar Crest student volunteers who made this event possible!
**Saturday Lunch Panels**

Don’t miss these exciting events:

- **Interested in going to graduate school?** Hear about local programs from students and faculty, and learn more about NSF Graduate Fellowships at our lunchtime graduate panel.

- **Considering a career in science?** The Women in Science Career Panel highlights the range of possibilities available to you. Hear from women in the field as they talk about their experiences.

- **Already have a career in science?** Attend the PAS Business Meeting to learn about ways that you can become more involved and discover exciting changes for the Academy as we enter the electronic era.

---

**Symposium: Conservation and Ecology of Pennsylvania’s Bats**

Sandy Whidden, editor of the Academy’s forthcoming text on Bat Conservation and Ecology, will chair a session examining this topic. Presentations will range from a historical survey of research in Pennsylvania to white-nose syndrome and its effect on the survival of the population. Speakers include professionals from the Pennsylvania Game Commission as well as faculty from universities such as East Stroudsburg and Bucknell.

---

**Women in Science Keynote Talk: Laura Mays Hoopes**

Laura L. Mays Hoopes, Ph.D. will deliver the plenary talk on Saturday night. Dr. Hoopes is the author of the published 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.

“...a woman in science should not need to reject family life and teaching to succeed in finding interesting and important new [scientific] findings”

~ Dr. Hoopes

---

**Science Education Initiatives**

In alignment with the goal of the Academy to support science education, the Academy has two initiatives that will enhance this year’s meeting:

- A PJAS Teacher Workshop will run in parallel with the PAS Annual Meeting. This year’s we will spotlight Pennsylvania Women in Science.

- For the first time, the meeting will conclude with an Awards Ceremony to honor the achievements of undergraduate and graduate students. The Anne Spychala Family Foundation has provided an endowment to fund both oral and poster presentation awards.
SCHEDULE OF ACTIVITIES AT A GLANCE
88th Annual Meeting of the Pennsylvania Academy of Science
March 30 – April 1, 2012
Cedar Crest College

Friday, March 30, 2012
3-5:00  Field Trip(s)  Hawk Mountain
4-6:00  Board Meeting  President's House
6-7:00  Board Dinner  President's House
6-9:00  Da Vinci Social Mixer  Da Vinci Science Center

Saturday, March 31, 2012
Symposium: Conservation and Ecology of Pennsylvania’s Bats  Miller 33
9:00 am – 12:00 pm  Oral Presentations
9-10:30
I.  Cancer Biology I  SC 136
II. Cell & Developmental Biology  OBC 1
10:30-10:45  Break  Lees Gym
10-12:00  Poster Session I: Cell Biology  Lees Gym
10:45-12:00  Oral Presentations
III. Aquatic Ecology I  SC136
IV. Education  SC 139
V. Animal Physiology  OBC 1
12-1:30  Lunch + Business Meeting  SC 136
Lunch + Women in Science Careers Panel  OBC 1
Lunch + Grad School and NSF Fellowships  Miller 33
1:30-2:30  Data Blitz  SC 136
2:30-2:45  Break  Lees Gym
2:30-4:30  Poster Session II: Explorations in Science  Lees Gym
2:45-4:00  Oral Presentations
VI. Algal Biology  Miller 33
VII. Animal Ecology  SC 136
VIII. Genetics  OBC 1
6-9:00  Dinner + Keynote  HBB

DATA BLITZ PARTICIPANTS
SCIENCE CENTER 136, SATURDAY 1:30—2:30
MODERATOR: ALAN B. HALE, PH.D.

Fred J. Brenner (Grove City College), J. Michael Campbell (Mercyhurst University), John Cigliano (Cedar Crest College), Clay Corbin (Bloomsburg University), Sherry Fuller-Espie (Cabrini College), Greg George (Delaware Valley College), Ken Klemow (Wilkes University), Amy Parente (Mercyhurst University), Sarah Turner (Mercyhurst University), Jana Villemain (Indiana University of PA), Yuan Zhong (Millersville University)
SCHEDULE OF ACTIVITIES AT A GLANCE
88th Annual Meeting of the Pennsylvania Academy of Science
March 30 – April 1, 2012
Cedar Crest College

Sunday, April 1, 2012
8-9:00  Board Meeting  SC 138
9-10:30  Oral Presentations
  IX.  Plant Interactions  Miller 33
  X.  GIS/Ocean Systems  SC 136
  XI.  Parasitology  OBC 1
  XII. Phage Biology  SC 139
10:30-10:45  Break  Lees Gym
10-12:00  Poster Session III: GIS, Ecology, and Environmental Biology  Lees Gym
10:45-12:00  Oral Presentations
  XIII. Aquatic Ecology II  Miller 33
  XIV. Cancer Biology II  SC 136
  XV. Forensics  OBC 1
12-1:00  Awards Ceremony and Lunch  OBC1

WOMEN IN SCIENCE CAREERS PANEL
OBERKOTTER CENTER 1
SATURDAY 12—1:30
MODERATOR: AUDREY J. ETTINGER, PH.D.

Rebecca Anewalt, B.S.
Research Specialist, University of Pennsylvania
Angela Caravella, B.S.
Regulatory Affairs Specialist, B. Braun Medical, Inc.
Michelle Dawes, M.S.
Associate Research Scientist II, Bristol-Myers Squibb
Rachel Lightfoot, B.S.
Field Investigator, Crop Management Strategies, Inc.
Kimberly Moran, M.S.
Research Specialist, University of Pennsylvania
Kimberly Michalik, M.S.
Forensic Scientist I, NJ State Police Office of Forensic Sciences DNA Laboratory
Lori-Lynn Predmore, B.S.
Analytical Chemist, Sanofi-Pasteur
Stefanie Weber, M.S.
Prenatal Genetic Counselor
Megan Zellner, M.S.
Senior Analytical Chemist, L’Oreal USA Research and Innovation

GRADUATE SCHOOL & NSF FELLOWSHIPS PANEL
MILLER 33
SATURDAY 12—1:30
MODERATOR: AMY J. REESE, PH.D.

Johnathan Cox, M.S., MS.Ed.
Admissions Recruiter, Philadelphia College of Medicine
Lindsay Horvath, B.S.
Ph.D. Graduate Student, Pennsylvania State University College of Medicine
Thomas Rounsville, B.S.
M.S. Graduate Student, East Stroudsburg University
Richard Kliman, Ph.D.
Professor, Cedar Crest College
Former NSF Program Director
Michelle Schmidt, M.S.
Ph.D. Graduate Student, Seton Hall University
Marc Stearns
Director, Admissions and Recruitment, Thomas Jefferson University
Larry Quarino, Ph.D.
Associate Professor, Cedar Crest College
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 – Lees Gym, Cedar Crest College
12:00 pm – 1:00 pm  Bag lunch (included with registration) – Cedar Crest College, Lees 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
To get to Cedar Crest College from the hotels:
- Take Rt 222 (Hamilton Blvd) east
- Turn left onto Cedar Crest Blvd
- Turn right onto the campus driveway
- Park in Lot C
- The Science Center Complex is across the campus driveway

LEAVING CAMPUS: It is preferable that you exit campus from the Da Vinci Center driveway. This will put you directly onto Hamilton Blvd, heading towards the hotels. To get to Comfort Suites, you will have to take the jug-handle on your right, just past Dorney Park. To get to the Wingate Hotel, take a right at the light after the hotel.

IMPORTANT NOTE: Hamilton Blvd is a one way road circling counter-clockwise around the shopping center on the south end of the College campus, with Cedar Crest Blvd bisecting the circle. There are u-turn areas at either end of this section to allow you to go the opposite direction. Be careful to NOT enter Hamilton Blvd in the wrong direction!!!

SHOPS ADJACENT TO CAMPUS: Weis Markets & Pharmacy, Rite Aid, Bamboo Asian Cuisine & Sushi Bar, Pistachio Bar & Grille, Boston Market, T.G.I. Fridays, Wendy’s, Friendly’s, Carrabba’s, Teppan Hibachi Steakhouse, Subway, Mario’s Pizza & Café, Office Depot
The Science Center Complex, where all oral presentations will take place, consists of three joined buildings (Oberkotter Center, Poole Science Center, and the Miller Family Building). All of these buildings are continuous with one another; only the names and room numbers change.

Lees Gym, where the coffee breaks and poster sessions will be held, adjoins the Science Center Complex, but does require you to exit one building to access the other.

The Hamilton Blvd Building, where dinner will take place on Saturday night, is a short walk from the Science Center Complex. Alternatively, you can drive to the building, which is accessible from Hamilton Blvd and has its own parking lot. DO NOT park in the adjacent Atrium parking lot. This is a private building that is not associated with the College, and your car will be towed!
OUR VISION
The Pennsylvania Academy of Science serves as a valuable and vital resource for science professionals, faculty, and students within the Commonwealth of Pennsylvania. Towards this end, the Academy will strive to embrace all disciplines of science and help ensure the scholarly and ethical pursuit of all scientific endeavors.

THE PENNSYLVANIA ACADEMY OF SCIENCE CONTINUES TO ACHIEVE ITS GOALS:
- Advance the pursuit and application of science within the Commonwealth, both in academic and industrial settings,
- Enhance the professional development of its members,
- Facilitate forums for professional dialogue among junior and senior scientists at all academic levels
- Promote scientific research, presentation and discussion among its members and the public at large, and
- Support educational initiatives devoted to the development of scientific skills and knowledge.

Save the Date
April 5, 2013 to April 7, 2013

2013 PAS Annual Meeting
At
University of Pittsburgh-Bradford
Bradford, Pennsylvania

Special Symposium: Marcellus Shale