



# BioSynthesis

Volume 5, Issue 5 (December 2006)

BioSynthesis On-Line: <http://departments.bloomu.edu/biology/>

## Fall Semester Dates

**DEC 2:** BAHS Club Trip to Hersheypark /CandyLane.

**DEC 8:** COST Student Research Presentations, 79 HSC.

**DEC 11– 16:** Final Exams.

**DEC 14:** Mock Interviews, 178 HSC, 9:30 a.m.

**DEC 15:** Graduate Commencement, Haas, 6:00 p.m.

**DEC 16:** Undergraduate Commencement, Colleges of Science and Technology and Liberal Arts, Haas, 10:00 a.m.

**DEC 22:** Fall Semester Grades available on STINF; official transcripts available.

**JAN 16 (Tues):** Spring Semester 2007 classes begin.



## Look what's inside:

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## BAHS Students Up the Creek!



Students in Dr. Williams' Ecology class were caught up Chillisquaque Creek sampling invertebrates. Our field biologists are from left: **Brock Solomon, Jordyn Lorentz, Mallory Garnett, Jaskaran Singh, Brett Malinson, Brian Kriebel** and **Dr. Williams**.



## Congratulations to December Graduates!

Best wishes for continued success. Stay in touch!

### B.S. Biology

Colleen Baumunk  
Phuoc Ba Ho  
Heidi Hoelper  
Brian Kempsey  
Jodie Miller  
Jonathan Snavelly

### B.A. Biology

Tanita Eliam  
Mark Kamenetz  
Sheena Ravenel  
Laura Yost

### Medical Imaging

Michelle Blandina  
Kathleen Gavala  
Sharla Gettler  
Jenna Ghiringhelli

Chaz Loblein  
Kimberly Rotell  
Michael Thompson  
Eileen Wolf

### B.S. Secondary Education and B.A. Biology

Rachel Jacobs, magna cum laude  
Eric Weathers



## Spring Semester Electives for Biology Majors

Have you scheduled your biology electives for spring 2007? Here is a snapshot of some of the cool stuff you'll be learning!



### Invertebrate Zoology (50.211 )

**Dr. Klinger**

**Prerequisites: Concepts in Biology II (50.115)**

Studies the principal phyla of invertebrate animals in relation to their anatomy, classification, and behaviors in the ecosystems in which they participate. Three hours lecture/2 hours laboratory per week. Does not count for a biology minor.



### Medical Microbiology (50.342)

**Dr. Kipe-Nolt**

**Prerequisites: Microbiology (50.242) and Cell Biology (50.271)**

Provides a study of microorganisms capable of causing disease in humans. Emphasizes epidemiology, laboratory diagnosis, principles of pathogenesis, treatment, and prevention. The course utilizes medical models and projects, group and individual, to attain this goal. Two hours of lecture and three hours of discussion/laboratory per week.



### Developmental Biology (50.431)

**Dr. Hansen**

**Prerequisites: Cell Biology (50.271), Organic Chemistry I (52.231) or Fundamentals of Organic Chemistry (52.230)**

*Developmental Biology is at the core of all Biology. It deals with the process by which genes in the fertilized egg control cell behavior in the embryo and so determine its pattern, its form and much of its behavior.* Lewis Wolpert, 1999

The development of multicellular organisms from a single cell - the fertilized egg- is a brilliant triumph of evolution. During embryonic development, the egg divides to give rise to many millions of cells, which form structures as complex and varied as eyes, arms, the heart, and the brain. In developmental biology we will address a diversity of interrelated questions, such as:

- How do cells arising from division of the fertilized egg become different from each other?
- How do they become organized into structures such as limbs and brain?
- What controls the behavior of individual cells such that highly organized patterns emerge?
- How is the organizing information embedded in the egg and, in particular, the genetic material?

We will examine these processes in lecture and in a hands-on-lab. In lab we will learn novel microscopy techniques, collect gametes from sea urchins and follow fertilization, perform micro-surgery on chicken embryos, and examine developmental changes in gene expression.



### Virology (50.442)

**Dr. Nolt**

**Prerequisites: Microbiology (50.242) and Cell Biology (50.271)**

Examines the common strategies viruses employ to infect diverse hosts as well as the unique characteristics of viral pathogenesis in the human host. Topics will include the nature of viruses, how viruses are classified, the molecular events in the infection and replication of viruses in prokaryotic and eukaryotic cells, how viruses cause disease in humans, the host response to virus infection, and the spread and control of viruses infecting humans. Prions and other subviral agents will also be examined. Three hours of lecture/week.

## More spring electives...



### **Tissue Culture (50.444)**

**Drs. Brubaker and Davis**

**Prerequisites:** Cell Biology (50.271), Organic Chemistry I (52.231) or Fundamentals of Organic Chemistry (52.230), or permission of the instructor

Explores the practical and theoretical aspects of plant and animal tissue culture. Primary focus will be on the development of laboratory skills to a level sufficient to enable the student to gain an entry-level position in a cell culture laboratory. Topics include: regeneration of plants from tissue culture, hybridoma technology, animal tissue culture techniques, establishing primary cell cultures, and maintenance and storage of cell cultures. One hour of lecture/discussion per week, three hours lab.



### **Introduction to Pharmacology (50.445)**

**Dr. Till**

**Prerequisites:** Cell Biology (50.271) AND Anatomy & Physiology II (50.174) OR Vertebrate Systems Physiology (50.474)

This is a NEW BIOLOGY ELECTIVE for Spring 2007. Introduction to Pharmacology is a particularly relevant class for allied health/BA Biology and Medical Science majors. The course examines the basic principles of pharmacology and medication for commonly used drugs. The drug's effects on physiology and disease are specifically discussed.



### **Animal Cell Physiology (50.472)**

**Dr. Brubaker**

**Prerequisites:** Cell Biology (50.271), Organic Chemistry I (52.231) or Fundamentals of Organic Chemistry (52.230) or permission of the instructor

Multi-cellular organisms depend upon the homeostasis of cells to maintain their existence. Since cells are the fundamental units of life, a basic knowledge of cell physiology is essential for understanding how organisms work. This course will emphasize topics such as cell-cell and cell-matrix interactions, membrane transport and trafficking, cell signaling, and cell cycle. In addition, processes needed for cell functions such as metabolism and DNA replication will be examined.



### **Plant Physiology (50.477)**

**Dr. Williams**

**Prerequisites:** Cell Biology (50.271), Organic Chemistry I (52.231), or Fundamentals of Organic Chemistry (52.230)

How do plants convert radiant energy into chemical energy? How do plants move water hundreds of feet in the air without a pump? Why and how do plants make nifty drugs like aspirin and cardiac glycosides? Why don't plants have kidneys? How do plants "know" when to drop their leaves, and why do those leaves turn those strange colors in the fall? These and other secrets of how the green world works are exposed in Plant Physiology.



### **Methods in Biotechnology (50.484)**

**Dr. Davis**

**Prerequisites:** Introduction to Molecular Biology (50.333) or Biochemistry II (52.422) and permission of instructor

This is an investigation-based course in which students undertake a project of their own design employing methods used in biotechnology. Projects can involve a variety of molecular biology, genetic, and physiological approaches to address questions on almost any organism - bacteria, plants animals and yes, even fungi. Students will meet as a research group once per week to learn techniques and problem solve issues related to their research project. Much of the project will be performed by the student independently through out the week.



## ALLIED HEALTH NEWS

### Medical Imaging Students: Apply NOW to Clinical Programs

Medical Imaging Students are encouraged to submit their applications to clinical programs as soon as possible. Apply to at least five hospitals—there is a lot of competition. Go on line or call schools for applications.

### Internships for Medical Imaging Students

Internship experiences for Medical Imaging students have been established at Bloomsburg Hospital and Geisinger Medical Center in Danville, PA. Interns at Bloomsburg Hospital may observe in the areas of nuclear medicine and MRI. Interns at Geisinger Medical Center may observe all imaging areas and meet both a radiologist and a hospital supervisor. Interns spend about one-half to two-thirds of the semester visiting the internship site under the guidance of the on-site supervisor and the remainder of the semester writing a 10-20 page internship report. Applications for the medical imaging internships at Bloomsburg Hospital and Geisinger Medical Center can be obtained from **Dr. Hranitz**. The deadline to submit applications is November 27, 2006.

### Microbes at Columbia Hall!

Over 20 students explored *Microbes Among Us* at the final session of the Fall into Health Program Series sponsored by the Health Science and Science Learning Community. **Dr. Nolt** led the session in Columbia Hall to an eager group of inquisitive students. Students reviewed data to answer burning questions such as “Are there more microbes in the guys’ rooms or the girls’ rooms? Which elevator has the most microbes? Are there microbes on that sofa in the lounge? A good time was had by all!

### Mock Interviews

Applying to clinical programs this fall? Worried about how to prepare for spring interviews? Would a practice interview help? Sign up for a mock interview with **Drs. Hranitz** and **Kipe-Nolt**. Interviews will be held Thursday, December 14 in 178 Hartline from 9:30 to 10:30 a.m.



### Fall COST Student Research Day

You are invited to attend the Fall COST student research presentations on Friday, December 8 in the afternoon. The following BAHS students and faculty are presenting:

**Laura Halon**, John Hranitz, Kristen Brubaker, and John Barthell. A Comparison of 70 kD and 90 kD Stress Protein in Three Species of Bees.

**Jithendar Gundawar** and John Hranitz Characterization and Analysis of 70 kD and 90 kD Stress Proteins in the Solitary Bee *Megachile fidelis*.

**Joel Gyimesi**, **Danielle Wartko**, John Hranitz, and Troy Baird. Territoriality Leads to High Reproductive Success in Collared Lizards (*Crotaphytus collaris*).

**Danielle Wartko**, **Joel Gyimesi**, John Hranitz, and Troy Baird. Variance in Reproductive Success Among Collard Lizard (*Crotaphytus Collaris*) Females.

**Melissa Scubelek** and Clay Corbin. Morphological integrity of African Blue Flycatcher subspecies (*Elminia longicauda* subspecies).

**Justin Dion**, John Hranitz, and Clay Corbin. Optimization and Screening of DNA isolation and PCR Techniques for a Population Genetic Study of African Blue Flycatchers (*Elminia longicauda*).

**Jennifer Biddinger** and Steven Rier. Effects of acid mine drainage on microbial extracellular enzymes in streams

**Braden Ott** and Carl Hansen. Sequence analysis of Heterotrimeric G Protein Gamma Subunits from Fish.

**Usha Mandapati** and Carl Hansen. Sequence analysis of Heterotrimeric G Protein Alpha Subunits from Fish.

**Zachary Wert** and Clay Corbin. Habitat selectivity and foraging behavior in four species of non-breeding woodpeckers (Picidae).



### Save the Dates!

Commonwealth of Pennsylvania University Biologists (CPUB) will hold its annual meeting at April 13 to 15, 2007 at the Tom Ridge Environmental Center at Presque Isle State Park. The event is being hosted by Edinboro University. CPUB is an organization of biology faculty from the fourteen universities in the State System of Higher Education.

CPUB holds annual meetings to highlight student and faculty research. The annual meeting of the Pennsylvania Academy of Science (PAS) is in Monroeville, PA (near Pittsburgh) on March 29 to April 1, 2007. The meeting features a keynote address and research posters and presentations on a wide variety of topics. Deadline for abstracts is December 15, 2006. For more information see <http://pennsci.org/index.htm>. These are good meetings for students to present the results of their research.



# Opportunity is Knocking!

## Summer Research Internships

Penn State College of Medicine is sponsoring its annual Summer Undergraduate Research Internship Program (SURIP) for students between their sophomore and senior years. The program runs from May 30 to August 10, 2007. Students will have the opportunity to conduct research with a scientist and will present a research poster at a mini-symposium at the end of the program. Deadline for applications is February 16, 2007. For more information and applications see: <http://www.hmc.psu.edu/summerresearch>



## UNCF-Merck Offers Undergraduate Science Research Scholarships

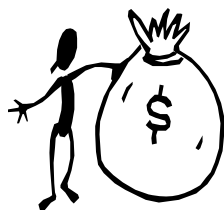
Applications are now available for the 2007 UNCF-Merck Undergraduate Science Research Scholarship. This scholarship program is sponsored by The Merck Company Foundation and is administered by The United Negro College Fund. The goal of the program is to encourage African American students to pursue careers in biomedical science and related scientific fields. The award provides tuition support of up to \$25,000 and offers opportunities for paid summer internships at a Merck research facility in New Jersey, Pennsylvania, or Massachusetts. To be eligible, students must be African American, enrolled in a life science or physical science program at a four year college, a junior, and have a 3.3 GPA. The deadline is December 15, 2006. The scholarship program web site is [www.uncf.org/merck/programs/undergrd.htm](http://www.uncf.org/merck/programs/undergrd.htm)

## Field Opportunities

Ecology Project International is a non-profit organization dedicated to providing academically rigorous, field-based conservation science programs. Students have the opportunity to collaborate with scientists on a real-world conservation project which focuses on protecting species, collecting data, and restoring threatened ecosystems. These site-based research partnerships are used to build an understanding of local, regional, and global environmental issues. EPI sponsors field courses in Costa Rica, Baja California Sur, the Galapagos, and Montana. The Costa Rica projects aims at saving endangered leatherback sea turtles. Island and whale ecology are the focus of the project in Baja California Sur. The Gallapagos course includes a field-based research project and classes in ecology, island biogeography, and evolution. The Montana course is housed at Yellowstone National Park and includes courses in wildlife biology and terrestrial ecology, in addition to an individual research project. For more information, see: [www.ecologyproject.org](http://www.ecologyproject.org)



## PA-AWWA Scholarship



The Pennsylvania Section of the American Water Works Association is seeking applicants for the 2007 David Long Scholarship. To be eligible for this \$1500 scholarship, students must be a biology, chemistry, engineering, or business major enrolled in a Pennsylvania college. Students must have completed one semester of their junior year, or be a college senior, or be a graduate student. For additional information or application, contact Diane Cox at [dianecox@paawwa.org](mailto:dianecox@paawwa.org). The deadline to submit applications is February.

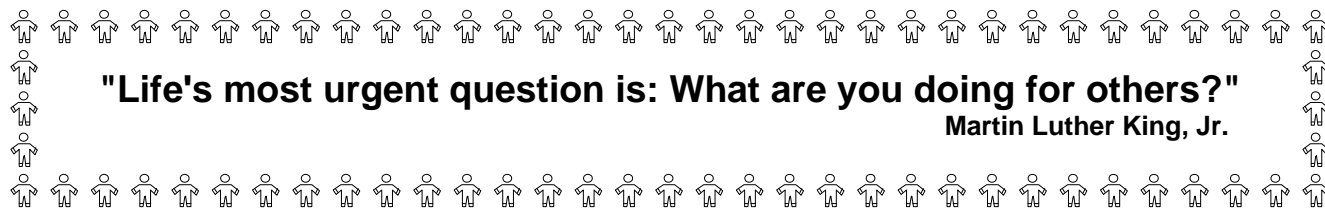
## Opportunities in Ecology and Environmental Biology



If you are interested in receiving e-mails regarding internships, summer jobs, graduate school, and career opportunities in the fields of Ecology and Environmental Biology, send **Dr. Rier** an e-mail ([srier@bloomu.edu](mailto:srier@bloomu.edu)) and he will put you on the list.

# Opportunities for Community Service

The SOLVE office lists several opportunities for students to serve others in Bloomsburg and the surrounding communities.. Here are some opportunities related to health science and biology.



**"Life's most urgent question is: What are you doing for others?"**

**Martin Luther King, Jr.**

**AMERICAN CANCER SOCIETY** (1-888-227-5445). The organization is dedicated to eliminating cancer as a major health problem. Many opportunities available to volunteer.

**AMERICAN HEART ASSOCIATION** (570-286-0663). Dedicated to reducing disability & death from cardiovascular diseases. There are many opportunities available to volunteer.

**AMERICAN RED CROSS** 119 E7th St. Bloomsburg, PA (784-1395). Opportunities to utilize your talents & provide training to serve your community, especially with blood drives.

**BERWICK ADULT DAY CARE CENTER** 208 W. Eleventh St., Berwick, PA 18063 (752-2882). [bwkaduldaycarecenter@juno.com](mailto:bwkaduldaycarecenter@juno.com) Provide a positive environment for elderly individuals during the day, allowing them to stay in the community.

**BETHESDA DAY TREATMENT CENTER** 1129 Old Berwick Rd, Bloomsburg PA 17815 (Steve Gaito, 387-1051) [steveg@bdtcpa.org](mailto:steveg@bdtcpa.org) Help troubled youth who are unable to function in society. Become a friend, mentor, teacher, or counselor to help reenter them in society.

**BIG BROTHERS/BIG SISTERS** Bloomsburg (Tracy Byrne, 784-0791). Children of single parent families in need of a mentor, someone they can look up to, or just someone to play with. \* ***Year long commitment***

**BOY SCOUTS OF AMERICA** 5 Audubon Court Bloomsburg (784-2700). [mcinquin@bsamail.org](mailto:mcinquin@bsamail.org) Need general laborer for work days, "Learning for Life" program and ecology camp – COPE Certified, ecology instructors, and kitchen help.

**CARING COMMUNITIES FOR AIDS** (570-714-6323). Provides direct services to improve the quality of life for persons infected and affected by HIV/AIDS; community education and prevention programs.

**CHILDREN'S MUSEUM** 7th St., Bloomsburg, PA 17815 (Deborah Rhodes, 389-9206). Enrich the lives of people in the community by fostering a lifelong love of learning through enjoyable interactive programs. Open weekdays 9-4:30.

**COMPEER PROGRAM** W. Main St. Suite 202, Bloomsburg, (784-9583). Become a friend or mentor on a 1 to 1 match- calling & visiting, Run through the Mental Health Association.

**COL/MONT AREA AGENCY ON AGING SENIOR CENTER** (784-8615). Engage elderly members in conversation relating to their experiences, play work games, assist with the exercise program, or other activities at the center.

**COL/MONT HOME HEALTH & HOSPICE** Bloomsburg (Sandra Hare, 784-1723) Hospice is a team-oriented program of care for terminally ill patients and their families.

**COL/MONT SPECIAL OLYMPICS** (Laura, 387-1978, Debbie, 784-3343). Offers year round sports training to individuals with Mental Retardation. You **DO NOT** need any background in sports-just your enthusiasm and kindness. Must be 18. Scheduling is flexible. Excellent coaching experience.

**DANVILLE STATE HOSPITAL** (Renee Metzger, 570-271-4549). Residential facility for those with chronic mental illness. Volunteer provide activities and interactions with others.

**EOS THERAPEUTIC RIDING CENTER** Dahl Rd, Buckhorn, PA (Lynn Miller, 387-1689; Office 784-5445). Assist disabled individuals by offering therapy through animals and horse riding.

**THE GATE HOUSE** (Cheryl Hornberger, 570-275-6766). Serves the transitional needs of residents who require shelter; focuses on building and restoring the strengths of residents to ensure a successful return into their communities.

**GREATER COLUMBIA MEDICAL TRANSPORT** 549 E Fair St, Bloomsburg (387-2028). Accompany elderly persons to doctor's appointments via an ambulance. The volunteer would sit with the elderly person until their appointment is over.

**HABITAT FOR HUMANITY** PO BOX 273, Bloomsburg, PA 17815. [www.hfhcm.secretcouriers.com](http://www.hfhcm.secretcouriers.com) email: [hfhcm@secretcouriers.com](mailto:hfhcm@secretcouriers.com) (Jeff Foster, 271.2173 (w), 437-2423 (h), Chapter President). The Board meets every 1<sup>st</sup> Monday of the month at 7 PM at the 1<sup>st</sup> Presbyterian Church on Market Street, Bloomsburg. Assist with the physical construction/ rehabilitation of new home (novice and skilled).

**RONALD MCDONALD HOUSE OF DANVILLE** (Joan Williams, 570-214-1792). "Home away from home" for families with ill children. Volunteers needed to cook meals, be desk attendants, special projects, collect tabs, and help with Camp Dost (children with cancer).



## BAHS Student and Faculty Updates

### BAHS Senior Featured as Rising Star

**Laura Halon**, a senior majoring in B.S. Biology, biotechnology option and pursuing a chemistry minor, was featured on the BU website as a rising star. We are very proud of Laura too! Laura is from Frackville and is graduate of North Schuylkill Junior-Senior High School. Last summer she did a research internship at Weis Center for Research in Danville at Geisinger Medical Center. She investigated G-proteins with a goal of making drugs more specific and efficient. With Dr. Kristen Brubaker, Halon is currently working with a prostate cell line investigating how Runx2 affects bone remodeling. She plans to enroll in graduate school with a career goal of pharmaceutical research. Congratulations Laura!



### BAHS Students Honored for Outstanding Freshman Year Performance

Phi Kappa Phi is the nation's oldest, largest, and most selective honor society that recognizes and promotes academic achievement in all fields of higher education. Each year, the Bloomsburg University Chapter of the Honor Society of Phi Kappa Phi presents awards to exceptional students on the basis of their academic performance in the freshman year. This year two BAHS students are among those honored by the Society. Receiving the award at an October 30 ceremony were biology majors **Jade Pickenheim** and **Danielle Yoder**. Congratulations to Jade and Danielle, current BAHS sophomores.

### Faculty Publish Antibiotic Resistance Simulation

**Drs. Wassmer** and **Kipe-Nolt** from the Department of Biological and Allied Health Sciences and Dr. Catherine Chayko, Instructional Designer at the Institute for Instructional Technologies at BU published a paper called "Why Finish Your Antibiotics?" in the October 2006 issue of *The American Biology Teacher*. The paper describes a novel, hands-on classroom approach for teaching the dynamics of antibiotic resistance. (It uses candy!) The paper describes a method for teaching how selection for resistant strains of bacteria occurs and the importance of following your doctor's prescribed antibiotic regimen to minimize this selection. Students in Social Implications of Biology and Microbiology piloted the exercises and were surveyed for the article.



### Greetings from Albuquerque

**Dr. Surmacz** recently attended the annual meeting of the National Association of Biology Teachers (NABT) in Albuquerque, New Mexico. Dr. Surmacz presented a paper entitled "The Road to Inquiry-Based Labs—Steps to Take the "Tried and True" to the "Engaging and New." She attended a variety of featured presentations to update her background on topics as diverse as infectious disease, evolution, global climate change, and cardiology. She participated in some hands-on workshops. (Her favorite was where she learned how to measure the effects of polypeptides on apoptosis in human cheek cells.) She also attended sessions on lab assessment, approaches to teaching metabolism, case studies to introduce bioethics in the classroom, activities for teaching anatomy and physiology, and the use of controversial issues to introduce students to biological topics. Watch out—she came back with lots of new ideas to try out in the classroom!

The NABT meeting coincided with Albuquerque's annual Balloon Fiesta. Dr. Surmacz captured the above image of "the grand balloon ascension" at daybreak. The atmosphere was similar to the Bloomsburg Fair!



## Pre-professional Committee UPDATES

### What is the pre-professional committee?

The BU pre-professional committee assists students in gaining admission to professional schools in areas such as allopathic, osteopathic, podiatric, or veterinary medicine, as well as dentistry, optometry and chiropractic medicine. The committee's mission is to provide advisement, assist with the application process, evaluate student credentials, prepare committee recommendation letters, obtain resources for students relating to professional schools, and establish relationships with professional schools. The co-chairs of the committee are **Drs. Joseph Ardizzi** and **Mark Melnychuk** from BAHS. Other committee members include **Dr. Cindy Surmacz** (BAHS) and **Drs. Christopher Hallen** and **Toni Trumbo-Bell** from Chemistry. Students are encouraged to check the committee's website (<http://departments.bloomu.edu/biology/preprof.htm>) for announcements, current events, information on course selection, pre-professional test materials, and links to relevant web sites. Also, current information is displayed on the bulletin board outside room 106 HSC.

### MCAT News

**Practice MCAT:** Congratulations to the hearty souls who took the practice MCAT exam in November! This is an important step in becoming familiar with the depth and breadth of its questions. After receiving your "practice scores" you will get a better understanding of the content areas that require further study. Thanks to Drs. Hallen and Trumbo-Bell for administering and grading the exam.



**Real MCAT:** Beginning in 2007 the MCAT exam will be computerized. The computerized version of the exam is 30% shorter. The new version will be administered 22 times per year with your choice of a morning or afternoon testing session. Score reports will be available in 30 days. Upcoming dates are: January 27 and 29, April 7, 12, and 16; May 11, 16, 25, and 31; June 15; July 13 and 24; and August 6, 9, 14, 16, and 20. To view a complete schedule of exam dates, see the Pre-Medical Sciences Bulletin Board outside 105 Hartline. Online registration for the MCAT is available 6 months before each test date at <http://www.aamc.org/students/mcat/>

### Sign up for the Pre-Medical Science Option

Students who are interested in the pre-medical science option in the B.S. Biology degree can sign up at the Academic Advisement Office, 216 Student Services Center. For more information, contact your academic advisor. The pre-medical sciences curriculum sheet can be downloaded from [http://departments.bloomu.edu/biology/curriculum\\_sheets.html](http://departments.bloomu.edu/biology/curriculum_sheets.html)

### Interested in Chiropractic Medicine?

Dr. Stuart Hartman (D.C.) visited with the pre-medical sciences club in November to discuss the field of chiropractic medicine. He left extra information packets about careers in chiropractic medicine. If you would like a an information packet, please see **Nick Bixler**, president of the pre-medical sciences club.

### Summer Research Fellowship Program

The Joan and Sanford I. Weill Medical College of Cornell University will conduct a seven-week program during summer 2007 for students from diverse backgrounds who have a major interest in working with underserved populations. The program provides an opportunity for the student to do an independent study-research project under the supervision of a faculty member and to become acquainted with clinical and public health aspects of medicine that have particular impact on underserved and minority populations. This program is designed for juniors. For further information see: <http://www.med.cornell.edu/education/programs> The application deadline is February 1, 2007. For an informational brochure, please see **Dr. Ardizzi**.







## Alumni News

**Daniel Aruscavage** (M.S. Biology) stopped by recently to visit. Dan is completing his Ph.D. at Ohio State University in Food Science. He has been very busy with the recent outbreaks of *E.coli*!

**Lindsey Baglini** (B.S. Biology, 2005) is pursuing a Ph.D. in biochemistry at Wake Forest University. Lindsey returned to BU in October to present a seminar entitled "Investigation of the Relationship between Phosphatidic Acid and p47 phox."

**Michelle McGroarty Brown** (B.S. Biology, 2000) is currently working as a Scientific Recruiter for Kelly Scientific Resources in the Philadelphia area. She would be happy to talk to current students or recent graduates about internship and career opportunities. Her company has corporate contracts with Johnson and Johnson, Wyeth, Rohm and Haas as well as other large and small pharmaceutical and biotech companies. If you are interested in contacting Michelle, please see Dr. Surmacz.

**Paul Farley** (B.S. Biology and Secondary Education, 2006) is teaching biology at Hazleton Area High School, Hazleton, PA.

**Timothy McCloskey** (B.S. Biology, 1975) has joined the department of pediatric pulmonary, allergy, and immunology at the Janet Weis Children's Hospital. He received his DO from Philadelphia College of Osteopathic Medicine and completed residencies at Geisinger Medical Center and Mayo Graduate School of Medicine. He conducted research with **Dr. Phillip Farber**, faculty emeritus, while at Bloomsburg.

**Jennifer Miller** (Biology and Anthropology, 2005) is enrolled in the masters program in primate conservation at Oxford Brookes University, England. She received the prestigious John Henry Brookes International Student Scholarship.

**Stacey Schell** (B.S. Biology, 2006) was recently married and has moved to Georgia to attend Life University for chiropractic medicine.

**Amanda Schompert** (B.S. Biology, 2003) visited recently. She is a third year medical student at Philadelphia College of Osteopathic Medicine and is presently in a clinical rotation in the Emergency Department at Geisinger Medical Center.

**Michelle Sienkiewicz** (B.A., Biology, 2006) sends greetings from the College of Allied Health Sciences at Thomas Jefferson University. Michelle is enrolled in the doctoral program in physical therapy. She reports that she is enjoying her classes and is getting used to Philadelphia.

**Gregory Stringfellow** (B.S. Biology, Chemistry minor, 2000) is currently employed at West Pharmaceutical Services in Lionville, PA where he works as a chemist in the areas of product concerns, microscopy, and investigations. Greg is the assistant chief and training officer at the Hatfield Volunteer Fire Company and has extensive experience as an EMT. He is planning to pursue a career in medicine.

**Christina Yancey** (B.S. Medical Imaging, 2002, Nuclear Medicine) recently married and is currently living near Atlantic City.

**Michael Yohn** (B.S. Secondary Education, 2006) is teaching general science at CW Rice Middle School in Northumberland, PA.

**Sabrina Ziemer** (B.S. Secondary Education) is currently teaching 9<sup>th</sup> graders in Pennridge School District. She will soon be taking over the environmental science class.

### BAHS Future Podiatrists

Several 2006 BAHS graduates have started professional programs in podiatry this fall semester. **Nicole Dalessandro** and **Valarie Van Cleef** have headed to the Temple University School of Podiatric Medicine in Philadelphia. **Frank Sheaffer** is studying at the Scholl College of Podiatric Medicine at Rosalind Franklin University of Medicine and Science in North Chicago, IL.



## Spring Journal Club to Feature Book Discussion

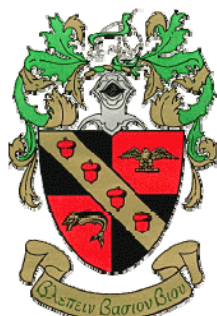
The 2005 book *Endless forms most beautiful: The new science of evo devo and the making of the animal kingdom* by S.B. Carroll will be the focus of next semester's journal club. See **Dr. Corbin** for more details.

# Tri-Beta Induction Ceremony



New and current members of Beta Beta Beta Biological Honor Society pose for a picture following their induction ceremony on November 9, at the Schweiker Room, Andruss Library. Beta Beta Beta (Tri-Beta) is a society for students dedicated to improving the understanding and appreciation of biological sciences and extending boundaries of human knowledge through scientific research. Since its founding in 1922, more than 175,000 persons have been accepted into lifetime membership, and more than 430 chapters have been established throughout the United States and Puerto Rico. The mission of Tri-Beta is: 1) to stimulate scholarship; 2) to disseminate scientific knowledge; and 3) to promote biological research. To fulfill this mission, the national organization of Beta Beta Beta recognizes the accomplishments of outstanding individuals and chapters and publishes a national journal, *BIOS*.

The induction ceremony was led by current Tri-Beta Officers: President, **Laura Halon**; Vice-President: **Trinity Stempko**; Secretary/Historian: **Jessica Teders**; and Treasurer: **Chris Kashi**. Dr. Conrad Quintyn, Department of Anthropology, was the featured speaker. Congratulatory remarks were offered by Dr. James Pomfret, Interim Dean, College of Science and Technology. In addition to the initiates and their families, the following BAHS faculty attended: **Dr. Rier, Dr. Hranitz, Dr. Davis, Dr. Hansen, Dr. Till, Dr. Brubaker, Dr. Kipe-Nolt, Mrs. Mehlbaum, and Dr. Surmacz**. Check out the Tri-Beta Bulletin board adjacent to the Cell Biology/IPL lab for photos and highlights.



Tri-Beta Crest



Tri-Beta Key

## 2006-07 Initiates of Tri-Beta

### Regular Membership

Katura Andrews	Kathleen Jackson
Nicholas Bixler	Rachel Jacobs
Kristi Brinckman	Aubrey Jones
Sarah Bounds	Jennifer Krott
Travis Castleberry	Cory Lavoie
Courtney Dean	Valerie Letukas
Kimberly Dodson	Talia McAlister
Kaylee Fischer	Krista Rae Petruskevich
Jared Geissinger	Sydney Schreck
Allison Grimm	Jonathan Snavely
Robert Grimm	Brock Solomon
Robert Heim	Danielle Wartko
Phuoc Ba Ho	Jamie Willour
Deborah Hunsberger	Ashley Yelinek

### Associate Membership

Jamilah Patton	William Young
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### Faculty: Graduate Membership

Dr. John Hranitz	Mrs. Christine Mehlbaum
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# Biology and Allied Health Club News

The Biology and Allied Health Club has had a very busy semester. The club's recent community service project raised \$280 to help a local child who has progeria, a rare genetic disease that produces rapid aging in children. Volunteers made a poster describing progeria, crafted decorations for the holiday tree, and collected donations in Hartline Lobby. The tree and decorations are on display in Hartline on the green floor in the "BAHS student gathering place." Thanks to all volunteers and donors for your support. The Biology and Allied Health Club recently held an "End-of-the-Semester Holiday Party" and a trip to Hershey's Chocolate World and Candylane at Hersheypark. Details below.) Mock interviews for Medical Imaging Majors will be held on December 14 by Drs. Hranitz and Kipe-Nolt. For more information on any events, please see Biology and Allied Health Club officers:

President: **Talia McAlister:** [tamcalis@bloomu.edu](mailto:tamcalis@bloomu.edu)

VP: **Laura Halon:** [lthalon@bloomu.edu](mailto:lthalon@bloomu.edu)

Secretary: **Rachel Brous:** [rlbrous@bloomu.edu](mailto:rlbrous@bloomu.edu)

Treasurer: **Joel Gyimesi** [jtgyimes@bloomu.edu](mailto:jtgyimes@bloomu.edu)

Activities Coordinator: **Debbie Hunsberger** [dlhunsbe@bloomu.edu](mailto:dlhunsbe@bloomu.edu)

The faculty advisors of the Biology and Allied Health Club are **Drs. Hranitz, Brubaker, and Corbin.**

Photo: **Phuoc Ba Ho** and **Jessica Teders** take a break from studying on first floor Hartline to pose by the Biology and Health Club's Holiday Tree to raise funds to sponsor a child with progeria.



**Join us!**

**Trip to Hershey's Chocolate World and Hersheypark's Candylane**

**When: Saturday, December 2, 2—10 p.m.**

**Cost: Chocolate World is free**

**Candylane: \$9.95.**

## Young Scientists Visit BU

**Dr. Corbin** hosted 8 and 9 year old students from the Gifted Program at Southern Columbia School District. The students had the opportunity to explore animal form and function. The students especially enjoyed comparing patterns of locomotion in fish, amphibians, reptiles, birds, and mammals. The skeletons and living animals were a big hit!







**We Saw You At....**

## **The Great American Smoke-Out Fair**

BU hosted its annual Great American Smoke Out Fair in Multi-Purpose rooms A and B of Kehr Union on Thursday, November 16, 2006. The Fair was held in conjunction with the national event sponsored by the American Cancer Society. The Smoke-Out Fair featured over 10 informational booths aimed at combating smoking and tobacco use. The groups participating include: DAWN, the Student Health Center, and our own **Biology and Allied Health Club**. The BAHS club presented information on normal lung anatomy and physiology and pathologies associated with smoking. Thanks to the following volunteers for staffing the table: **Sarah Carro, Lara McDonough, Autumn Umberger, Joanie Thomas, Lisa Gifford, Nikole Lopata, Natalie Hand, Emily Kinkead, Caitlyn Kluskiewicz, Fran McNamara, Kayla Whitmoyer, Jennifer Dersch, Kelly Bonner, Maria Gallagher, Tammy Matthew-Hunter, and Amanda Peterman**. A favorite at the fair was "Ciggy" posing at right with **Dr. Zareen Amin**.



The Fair also featured posters and brochures prepared by various university classes including **Dr. Till's** Human Biology class, **Dr. Amin's** Human Sexuality class, and **Dr. Hranitz's** Anatomy and Physiology II class. Posters and brochures were judged by members of the Vertebrate Systems Physiology Class and Husky Paws and prizes were awarded to the winners. Students in Concepts in Biology I did poster critiques. The evening keynote address was delivered by Diane Phillips, Director of Government Relations, PA Division, American Cancer Society. Ms. Phillips discussed efforts to introduce Clean Air legislation in Pennsylvania.



**Maria Gallagher** staffs the Biology and Allied Health Club Table at the Great American Smoke-Out. The table featured microscope slides showing various lung pathologies, posters, vital capacity measurements, and a pig lung demonstration!



**Sara Carro, Lara McDonough, Autumn Umberger, and Dr. Hranitz** take a moment from setting up the BAHS Club table to pose with "Ciggy."