



BioSynthesis

Volume 6, Issue 4 (December 2007)

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

Fall & Spring Semester Dates

DEC 7: COST Research Day, 2 p.m. 83 and 79 HSC

DEC 10: Deadline for submitting applications for Spring Semester Internship Scholarship

DEC 10- 15: Final Exams

DEC 14: Graduate Commencement, Haas, 6:00 p.m.

DEC 15: Undergraduate Commencement, Colleges of Science and Technology and Liberal Arts, Haas, 10:00 a.m.

DEC 20: Fall Semester Grades available on STINF; official transcripts available.

JAN 14 (Mon): Spring Semester 2008 classes begin.

JAN 21 (Mon): Martin Luther King, Jr. Day, no classes

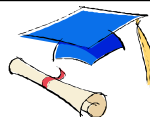


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Biology and Allied Health Club Sponsors a Charity Tree

The Biology and Allied Health Club is raising funds to assist Ian Zilinsky, a local two-year old boy who was diagnosed with leukemia. A large group of club members turned out recently to make decorations and eat pizza. See photo below. The club hung the ornaments with the names of those who purchased candy canes on the tree on first floor of Hartline east wing near the elevator.



Congratulations to December Graduates!

Best wishes for continued success. Stay in touch!

B.S. Biology: Matthew Corridoni, Janese Cook, Michael Dzwonek, Aubrey Jones, Devon Lyons, Kathryn Misel, Jamilah Patton

B.A. Biology: Jovannah Buckels (Natural History), Katura Andrews, Lindsey Ballos, Leah Diltz, Kelly Grella, Jessica Lindenberger, Holly Lorentz, Matthew Mordas, Krista Rae Petruskevich, William Young, Catherine Willis, Ryan Magaskie

Medical Imaging: Melissa Gerst, Nicole Nestico, Nathan Archey, Andrea Lauer, Kelley Laughlin, Robert Vincent Blasko

B.S. Secondary Education and B.A. Biology: Brett Mallinson

Biology Minor: Charles Martin, III

BAHS Club's Fantastic Fall

BAHS Club had a busy fall semester and hosted a variety of activities. There was something for everyone!

In October, **Dr. Corbin** led members of the BAHS Club on a great night Owl Hike through Jakey's Hollow and Summer Hill. Among the highlights of the evening were Old-Growth Hemlock, Eastern Screech Owls, and bioluminescent firefly larvae. The hikers pictured in the photo at right, are from left: **Erin Buckwalter, Deb Hunsberger, Josh Capelli, Jill Anthony, Mike Parker, and Sean Scubelek.**

BAHS Club also sponsored a workshop on "Preparing for Medical Imaging Interviews." **Mrs. Mehlbaum, Dr. Kipe-Nolt, and Dr. Hranitz** presented some of the "dos" and "don'ts" of a successful interview. Ms. Mehlbaum would be happy to meet individually with interested students to discuss tips for a successful interview. See her to schedule an appointment.

The Club hosted a fun holiday party in December for students and faculty. A good time was held by all. The consensus was that Dr. Brubaker makes great meatballs! Enjoying the festivities are at right: **Dr. Ardizzi, Travis Castleberry, Ghaith Ibrahim, Emily Barkanic, Jill Anthony, and Erin Buckwalter.**

The club also sponsored a charity tree to raise funds for a local boy with leukemia. Below left: Hartline 142 is overflowing with ornament makers! Below right: The charity tree. To support its activities, the BAHS club sold candles and held a bake sale in Hartline lobby. Stay tuned for an action-packed Spring Semester!



BAHS Student and Faculty Updates



Four 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 four BAHS students were among those honored by the Society. Receiving the award at a November 7 ceremony were biology majors **Michael Hollman**, **Sandra Newell**, and **James Noll** and medical imaging major **Nicole Seward**. Congratulations to Michael, Sandra, James, and Nicole, current BAHS sophomores. We are proud of you!



Traveling BAHS Faculty

Several BAHS faculty members were "on the road" this semester attending various conferences and workshops:

Drs. Hess and **Till** traveled to The College of New Jersey to attend "Strategies for Success," a Benjamin Cummings Science Workshop. The keynote address by Dr. Iain Campbell, University of Pittsburgh, focused on motivating non-majors science students. A variety of breakout sessions were available on topics such as technology in the classroom, lab simulations, teaching bioethical issues, writing objective exam questions, the human genome project on-line, and incorporating active learning.

Dr. Davis presented a talk with Professor Laura Davis, Finance and Legal Studies, on tenure and promotion at the Decision Sciences Institute in Phoenix Arizona.

Dr. Surmacz attended a workshop entitled "Visualizing the Future of Anatomy and Physiology" in Washington, DC. The meeting was held at the National Geographic Headquarters. The keynote address featured Dr. Spencer Wells, the director of the National Geographic's Genographic Project. This is a five-year, international study to sample and sequence DNA obtained from indigenous peoples and the public in order to determine the migratory patterns and diversity of our ancestors. Workshops were also held on technology use in the classroom, methods to simplify the teaching of anatomy, and new resources for the classroom and lab.

Mrs. Mehlbaum traveled to Albuquerque, New Mexico in November to attend the Radiologist Assistant Educational Council meeting at the American Society of Radiologic Technology Headquarters.

Elementary School Students Visit BAHS

Dr. Williams hosted a group of lively elementary school students from the gifted program at Southern Columbia School District. The group enjoyed the facilities of the IPL lab while learning all about pressure. To that end, students recorded their pulses using pulse pressure transducers and the data acquisition systems.



BAHS Faculty Recognized for Service

Drs. Chamuris and **Kipe-Nolt** were recently recognized by BU for the years of service to the university. Dr. Chamuris and Dr. Kipe-Nolt have served BU for 20 years and 15 years, respectively. Thanks for all your hard work over many years!

COST Students Learn about Graduate School

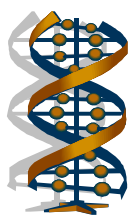
The College of Science and Technology sponsored a program on November 16 to help students prepare for graduate school. The program encouraged students to consider the benefits of graduate education and to consider such issues as cost, standardized exams, course preparation, and types of programs. Among those attending were a number of BAHS students from a variety of programs. **Drs. Hranitz** and **Surmacz** were among the speakers. The program was organized by Dr. Mauch, Director of the Math & Science Resource Center. The program will become an annual event.





Spring Semester Electives for Biology Majors

What biology electives have you scheduled for spring 2008? Here is a snapshot of some of the cool stuff you'll be learning!



Molecular Biology (50.333)

Dr. Davis

Prerequisites: Cell Biology, Microbiology, and Fundamentals of Organic Chemistry or Organic Chemistry I

Investigates the practical and theoretical aspects of molecular biology and gives students an opportunity to explore ontogenic and developmental problems from a molecular perspective. Topics include information processing from DNA to proteins, regulation of gene expression, DNA mutability and repair, and genetic engineering. Two hours lecture/discussion, three hours of lab per week.



Medical Microbiology (50.342)

Dr. Henry

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

Did you ever wonder why malaria is such a world-wide problem but you have never known anyone that has it? Have you ever tried to imagine how the organism that causes necrotizing fasciitis ("flesh-eating" disease) is capable of "eating" flesh (not to mention if it prefers to have it with some fava beans and a nice chianti)? You can learn the answers to these questions and more this Spring by enrolling in Medical Microbiology and learning more about the organisms that cause human disease. In addition to lectures that will cover the epidemiology, pathogenesis, mechanisms and treatment/prevention of disease-causing agents, we will also take a hands-on approach to the diagnosis and testing of many clinically-relevant microbes. Two hours of lecture and 3 hours of discussion/laboratory per week



Immunology (50.343)

Dr. Brubaker

Prerequisites: Cell Biology (50.271) and a background in biochemistry, genetics, or medical microbiology are recommended.

Immunology is the study of how the body responds to infection by bacteria, viruses, and other foreign materials. This class will focus on the mechanisms involved in the immune response. We will address aspects of cell-mediated immunity in health and disease.



Comparative Vertebrate Anatomy (50.361)

Dr. Corbin

Prerequisite: Concepts in Biology II (50.115)

This course is essential for students who are interested in both the health professions and biology careers. In other words, to be a well rounded biologist, you need this course! For most students, this will be an eye-opening course into the adaptive phenomenon that is the vertebrate body plan. Concentrating on the vertebrates, we will cover topics such as anatomy, morphogenesis, evolutionary adaptation, and cutting edge trends in functional and ecological morphology. In the lab we'll focus on dissection/prosection of (at least) lamprey, shark, and cat. Possible field trips include the Marine Science Consortium at Wallops Island, Virginia (additional student cost). Also, we will be digging into the latest primary literature surrounding the ever growing field of CVA. This action-packed course consists of two hours of lecture and three hours of laboratory per week.

Bioinformatics and Genomic Analysis (50.435)

Dr. Hansen

Prerequisites Cell Biology (50.271), Introductory Statistics (53.141) and Genetics (50.332) OR Molecular Biology (50.333)

In this course you will learn to manipulate genomic sequence information (i.e. data files). From this you can learn meaningful information about genes, gene structure, gene regulation, and gene evolution. The course will focus on the kinds of information that can be extracted from large DNA sequences in order to understand gene function. Particular emphasis will be placed on understanding our genetic predisposition(s) to disease and the relationship of the human genome to the genomes of other organisms.



More Spring Biology Elective Offerings



Introduction to Pharmacology (50.445)

Dr. Till

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

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.



Special Topics in Biology: Mutualism (50.489)

Dr. Kipe-Nolt

Multicellular organisms evolved in habitats already colonized by microbes, and mutualistic associations are now common. We will examine a variety of symbioses with emphasis on their shared metabolic capabilities, unique structures, evolutionary history, study techniques, and modes of transmission. Examples will include beneficial microbes that colonize the human body, rizobia that fix nitrogen for legumes, vibrio that produce light for fish, sulfur-oxidizing bacteria that feed giant tube worms on the bottom of the ocean, and cellulose degrading microbes that inhabit ruminants and wood-eating insects.

PHYSIOLOGY OFFERINGS

Either of these courses satisfies the physiology core requirement of the B.A. and B.S. Biology degrees when combined with Integrated Physiology Lab.

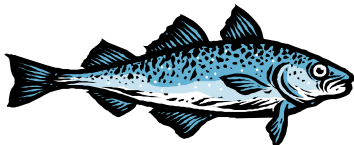


Plant Physiology (50.477)

Dr. Williams

Prerequisites: Cell Biology (50.271) AND 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.



Comparative Animal Physiology (50.480/580)

Dr. Hansen

Prerequisite: Cell Biology (50.271)

This course examines physiological mechanisms as they relate to the diversity of environments in which animals live. Central issues in comparative physiology address adaptive mechanisms related to water balance, energy production, respiration, circulation, temperature, locomotion and sensory perception. Each of these issues is examined in the context of marine, fresh water and terrestrial environments. The course will draw on examples from a wide variety of taxa to emphasize the principles that unify environmental and evolutionary physiology. Three hours of lecture per week.

Other BAHS Offerings

The department offers several classes that meet the Values, Ethics, and Responsible Decision Making requirement. During Spring 2008, Social Implications of Biology (50.254) and Human Sexuality (50.230) will be offered. Writing in Biology (50.290) will also be offered by **Dr. Ardizzi**.



BAHS Students & Faculty Present Research

The BAHS research labs have been busy this semester! Check out the following presentations by BAHS students and faculty:

Directed Study Presentation

Jit Gundawar will present his research on Friday, Dec. 7 at 11:00 a.m. in the conference room (178 HSC). His talk will be on "Chemo-sensitization of lung carcinoma cells by high dose radiation induced bystander signaling."

COST Research Day

Everyone is invited to attend the COST Research presentations on Friday, December 7. All presentation will be in room 83 Hartline except for the 4:00 talk, which will be held in 79 Hartline.

2:15 p.m.	Katherine Huff and Dr. Kipe-Nolt	Potential for <i>Staphylococcus aureus</i> transmission by nursing students: Evaluation of nasal carriage and watchband contamination
2:30 p.m.	Chelsea Barnes, Mike Sedon, and Dr. Hranitz	Geographic variation in stream salamander community structure
2:45 p.m.	Aubrey Jones and Dr. Rier	Enzymatic response of stream microbial communities along a gradient of impact from acidic atmospheric deposition
3:15 p.m.	Amy Savitski and Dr. Hranitz	A tale of two islands: Nectar flow and pollinator diversity
3:30 p.m.	Chris Krum and Dr. Hranitz	Isolation and characterization of 70kD and 90kD stress proteins in the solitary bee <i>Megachile fidelis</i>
4:00 p.m.	Josh Montgomery and Dr. Davis	Isolation and characterization of the iron phytosiderophore transporter from oats, <i>Avena sativa</i>

Biology Seminar Series

Two BAHS students recently presented their research at the new BAHS seminar series. **Chelsea Barnes** presented her thesis proposal, "Investigation of Stream Salamander Diversity in Northeastern Pennsylvania." **Valerie Letukas** presented Studies of *Herpes simplex* virus replication. Val spent the summer doing research on Herpes Simplex type 1 Virus (HSV-1) at the University of Iowa in the laboratory of Dr. Richard Roller.

Faculty & Students Attend 2nd Annual Susquehanna River Symposium



Several students and faculty from Biological and Allied Health Sciences (BAHS) and Geography and Geoscience (G & G) headed to Bucknell University for the 2nd Annual Susquehanna River Symposium. The event was sponsored by the Susquehanna River Heartland Coalition for Environmental Studies and Geisinger Center for Health Research. The symposium provided a forum for communication among the scientific community, citizen groups, mine owners, and regulatory agencies whose collective goals include continuing coal production, environmental protection, and remediation. The symposium provided an overview of mine drainage and remediation efforts in Eastern PA.

Dr. Rier was one of the featured symposium speakers. The happy group of symposium participants include from left: **Dr. Rier** (BAHS), **Dr. Venn** (G & G), **Emily Barkanic** (BAHS), **Dr. Surmacz** (BAHS), **Bernie Svab** (BAHS), **Jared Geissinger** (BAHS) and **Joe Scherry** (G & G alumnus).



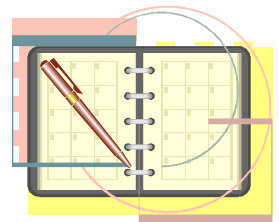
RA Students Undertake Research

Graduate students in the Radiologic Assistant program conduct research as part of their degree requirements. The following research projects are underway by our RA students:

- **Henry Batiste, Jr.:** “The relationship between nephrogenic systemic fibrosis and diabetes mellitus”
- **Chrissy Hollenbeck:** “Thyroid disorders and radiation”
- **Jacqueline Ritz:** “Advantages of multidetector computed tomography compared to conventional autopsy in cases of traumatic death”
- **Brianna Wilkins:** “An investigation of radiologic technology in computer-assisted orthopedic surgeries”

Spring Conferences: Save the Dates!

The Commonwealth of Pennsylvania University Biologists (CPUB) will hold its annual meeting on March 28 and 29, 2007 at Shippensburg 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 Grantville, PA (near Harrisburg) on April 4 to 6, 2007. The meeting features a keynote address and research posters and presentations on a wide variety of topics. Deadline for abstracts is February 1, 2008. For more information see <http://pennsci.org/index.htm>. These are good meetings for students to present the results of their research.

The 2008 Health Sciences Symposium will be held on campus on Thursday, April 10 and Friday, April 11, 2008.



UNCF-Merck Offers Undergraduate Science Research Scholarships

Applications are now available for the 2008 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 17, 2007. The scholarship program web site is www.uncf.org/merck

PA-AWWA Scholarship

The Pennsylvania Section of the American Water Works Association is seeking applicants for the 2008 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 diane-cox@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) and he will put you on the list.

Tri-Beta Initiation Ceremony



New and current members of Beta Beta Beta Biological Honor Society pose for a picture following their induction ceremony on November 1, 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, **Travis Castleberry**; Vice-President, **Kimberly Dodson**; Secretary, **Jennifer Krott**; Historian, **Allison Grimm**; and Treasurer, **Jared Geissinger**. **Dr. Angela Hess** was the featured speaker and addressed "The Summer Sun: The Good, The Bad, and The Ugly." Congratulatory remarks were offered by **Dr. George Chamuris**, BAHS chairperson. In addition to the initiates and their families, the following BAHS faculty attended: **Dr. Hranitz, Dr. Davis, Dr. Hansen, Dr. Hess, Dr. Brubaker, Dr. Kipe-Nolt, Mrs. Mehlbaum, Dr. Allar, Dr. Chamuris, Dr. Williams, Dr. Wassmer, Dr. Nolt, Dr. Rier, and Dr. Surmacz.**

2007 Initiates

Regular Membership

Kyle Bartol
Richard Carter IV
Kelsey Grabert
Christine Hoffman
Anh Hong Ho
Zane Hoover
Pamela Hudock
Joanna Kraynak
Amanda Meholchick
Christopher Ort
Anthony Rigard
Melissa Scubelek
Cara Shellenberger
Kenneth Thomas
Margaret Yesalavage
Danielle Yoder

Associate Membership

Christopher Krum
Kelly Murr
Stephanie Solomon

Graduate Membership

Andrew Paluch
Andrew Troutman

Faculty Membership

Dr. Barry Nolt
Dr. Gary Wassmer

Current Student Members

Katura Andrews
Nicholas Bixler
Travis Castleberry
Kimberly Dodson
Jared Geissinger
Allison Grimm
Deborah Hunsberger
Aubrey Jones
Jennifer Krott
Jamilah Patton
Krista Rae Petruskevich
William Young

Current Graduate Student Members

Chelsea Barnes
Jonathan Snavely
Kendra Sobolesky

Tri-Beta Updates

Tri-Beta has undertaken a number of new activities this semester. Among the most significant was the establishment of weekly tutoring sessions for students in introductory biology courses. Thanks to all of the Tri-Beta members who donated their valuable time to helping their classmates. The group plans to continue this program in the spring semester. New Tri-Beta members are encouraged to participate. Members of Tri-Beta went on a field trip to the Nuclear Power Plant near Berwick for a tour of the area surrounding the plant and the Ecology labs. To fund its activities, Tri-Beta held a successful bake sale in Hartline Lobby. A major event during the fall semester was the initiation of 23 students and faculty followed by a reception for friends and family. The Society will also bring back its popular "Free Coffee and Donuts" during finals week for COST Faculty and Students during Finals Week on Monday and Tuesday, Dec 10 and 11 in 178 Hartline.



Posing in front of the electrofishing unit at the Ecology labs at the Berwick Nuclear Power Plant are **Travis Castleberry, Dr. Surmacz, Kim Dodson, Jennifer Krott, and Emily Barkanic.**

FREE COFFEE AND DO-NUTS
for COST Students and Faculty
Finals Week
Monday, December 10 and
Tuesday, December 11
in the morning



New initiates gather prior to the ceremony.



Danielle Yoder (left) and **Maggie Yesalavage** (right) are initiated.



Some of the Tri-Beta officers pose with Dr. Chamuris.



Drs. Nolt and Wassmer are delighted to be joining Tri-Beta.



Alumni News

Dan Aruscavage (M.S. Biology) received his Ph.D. in Microbiology from Ohio State University in 2007 and has begun a faculty position in microbiology at SUNY Potsdam.

Sarah (Bashore) Meiss (B.S. Biology, 1994) has accepted a tenure track position in the Department of Biology and Environmental Science at California University of PA. She received her Ph.D. in Microbiology from Ohio University in Molecular Environmental and Plant Biology and studied rhizobia. She served as a Visiting Assistant Professor at Denison University in Ohio for three years. She is married and has a daughter Lucy.

Eileen Garvey (B.S. Biology, 2006) is currently employed as pharmaceutical sales representative for Eli Lilly in Spring Lake, NJ. She is planning on attending a physician assistant graduate program in the future.

Michael Getz is a physical therapist at Phoenix Rehabilitation in Bloomsburg. He graduated from Thomas Jefferson University.

Doreen Gill (B.A. Biology, 2003) is currently employed as an Assistant Scientist at Centocor Research and Development, Inc in Spring House, PA. She is working on protein A recovery chromatography of monoclonal antibodies for toxicology, and scale up studies. Doreen plans to pursue a masters degree in biotechnology at Drexel University.

Laura Halon (B.S. Biology, 2007) is currently enrolled in the Pathologist Assistant Program at Drexel University. She has accepted a scholarship and job offer from Geisinger Medical Center as a Pathologist Assistant.

Jennifer Intellicato-Young (B.A. Biology, 2006) is pursuing a Ph.D. in Microbiology at the University of South Carolina.

Jonathan Molinari (B.S. Biology, 2007) is working at Charles River Labs, a pharmaceutical firm, in Malvern, PA. His supervisor is **Jan Kapusta** (B.S. Biology, Microbiology option, 2004) Looks like the Bloom biotechies are taking over!

Lois Kirchner O'Boyle (B.S. Biology, 2003) is pursuing a M.S. degree in Marine Biology at the University of West Florida.

Leon O'Neill IV (B.S. Biology, 1999) is presently serving as a resident in internal medicine at the University of Medicine and Dentistry of New Jersey. He graduated from the Philadelphia College of Osteopathic Medicine.

Amy Risen (B.S. Biology, 2004) is a Ph.D. candidate in the program in Environmental Toxicology at Cornell University. She is examining the biodegradation of pharmaceuticals at waste water treatment plants, specifically ibuprofen breakdown by Sphingomonos species.

Brett Siegfried (B.S. Biology, 2003) has had a busy year. He has purchased his first new home, was married, and completed his MBA in Biotechnology and Health Industry Management. He is currently working at GlaxoSmith-Kline Pharmaceutical.

Kristine Tofts (B.S. Biology, 2006) is a first year medical student at the West Virginia College of Osteopathic Medicine.

Danielle Wargo, formerly Danielle Wartko, (BA Biology, BA Criminal Justice, 2007) was married this summer to Jason Wargo. She is now happily working as a research biologist at Kelsey Nash in Exeter, PA.

Check out the Pre-Medical Sciences Club!

The Pre-Medical Sciences Club welcomes all students interested in any of the medical sciences (allopathic or osteopathic medicine, optometry, podiatry, dentistry, veterinary medicine, etc.) The club has had a busy fall semester and has sponsored a variety of activities. The club hosted two guest speakers, Mr. David Martin from the Philadelphia College of Podiatric Medicine and Mr. Powers from Ross University. A group also headed to the AED conference at Thomas Jefferson University. The Pre-Med Club treated all of us in Hartline to a Halloween bake sale. Leading the club are this year's officers (pictured below): President, **Nick Bixler**; Vice President, **Pam Hudock**; Secretary, **Kyle Bartol**; Treasurer, **Yveny Eustache**; and Public Relations, **Eileen Burkett**. **Dr. Ardizzi** is the club advisor.



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Spring Semester Activities of the Pre-Medical Sciences Club

The first meeting for the Pre-Medical Sciences Club in the spring semester is scheduled for Tuesday, January 22, 2008 at 5:00 PM in room 178 HSC.

The first MCAT review session is scheduled for Monday, January 21, 2008 at 5:00 PM in room 178 HSC. For further details contact Kyle Bartol.

A BU audiologist will attend a meeting during spring semester to talk about aspects of clinical audiology.



Internships = Opportunity

Why do an internship? Internships are a great way to get on-the-job experience and earn credits at the same time! BAHS offers 50.490, Internship in Biology, to eligible juniors and seniors. While internships may vary from 3 – 15 credits, no more than 3 credits may be applied as biology electives. Internships may be paid employment or may be volunteer. To learn about internship opportunities and procedures, contact your academic advisor. Several BAHS interns were featured in the October *Biosynthesis*. Additions to this list include **Kevin Sommers** a summer intern in Physical Therapy and **Allison Grimm**, who is completing an internship at Geisinger in Outpatient Therapy at Woodbine Lane.

New Scholarships Available for Interns

Thanks to a grant from the Pennsylvania State System of Higher Education, awards of \$250 to \$1,000 are available to students to help cover expenses associated with an internship. The money may be used to fund transportation, housing, liability insurance, criminal record checks, immunizations, fingerprinting, or other approved items. To be eligible, students must be full-time undergraduates and have the approval of their department for the internship experience. Students can apply by submitting the following materials to Dean Marande's office: internship scholarship application form, a current transcript, an itemized list of internship expenses, a personal statement describing the benefits of the internship, a completed internship form (509 form), and a job description. The deadline to apply for spring 2008 internships is December 10, 2007. The deadline for summer 2008 and fall 2008 internships is March 21, 2007. Take advantage of this great opportunity!

BAHS at the Great American Smoke-Out

BU recently hosted its annual Great American Smoke Out Fair in Multi-Purpose rooms A and B of Kehr Union. This program was held in conjunction with the annual event sponsored by the American Cancer Society. The Smoke-Out Fair featured informational booths aimed at combating smoking and tobacco use. The groups participating include: DAWN, the Student Health Center, and our own **BAHS Club**. The Fair featured brochures prepared by **Dr. Till's** Human Biology class and posters presented by **Dr. Hranitz's** Anatomy and Physiology II students. Members of **Dr. Wassmer's** Human Biology class assisted with the race held in conjunction with the Smoke-Out. Dr. Francesca M. Kendris, Program Coordinator, Master's of Education in Counseling, Bloomsburg University was the keynote speaker. She presented **"Big Money, Big Business, Big Problems, Tobacco & Health."** Conducting poster critiques were students from Concepts in Biology I. Pictured at left is **Michael Busada**. On the right are **Brittany Walker** and **Megan Dager**.



Calling all Cell Biology Graduates!

The American Society for Cell Biology (ASCB) has launched a free, on-line seminar series featuring leading scientists presenting cutting-edge research topics. The seminars can be viewed on-line at www.ascb.org/ibioseminars. The techno-savvy among you can download them onto a portable device like a video iPod and view them anywhere! So when boredom strikes on this long semester break and you are missing the excitement of Cell Biology class, consider tuning in to one of these programs. Here is a list of topics:



Norma Andrews, Parasitic Disease and Cell Biology
 David Baltimore, HIV
 Mary Beckerle, Adhesion, Signaling, and Cancer
 Joseph DeRisi, Malaria
 Brian Druker, Signaling and Cancer Chemotherapy
 Stan Falkow, Host-Pathogen Interactions and Human Disease
 Elaine Fuchs, Stem Cells
 Cynthia Kenyon, Mechanisms of Aging
 Satyajit Mayor, Lipid Rafts
 John McKinney, Tuberculosis
 Toto Olivera, Cone Snail Toxins and Medicine
 Martin Raff, Size Regulation
 Alejandro Alvarado, Regeneration
 Randy Schekman, Protein Secretion and Vesicle Trafficking
 Lucy Shapiro, Bacterial Cell Dynamics and Global Epidemics
 Chris Somerville, Biofuels
 Julie Theriot, Actin and Cell Motility
 Ron Vale, Molecular Motors
 Xiaodong Wang, Apoptosis

