



BioSynthesis

Volume 4, Issue 6 (December 2005)

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

Fall Semester Dates

DEC 2: Journal Club, 178 HSC, 3:00 p.m.

DEC 10: Classes End

DEC 12: Final exams begin

DEC 15: PA Academy of Science Abstracts due

DEC 16: Graduate Commencement, Haas, 6:00 p.m.

DEC 17: Undergraduate Commencement, Haas, 10:00 a.m.

DEC 22: Official transcripts available

JAN 2 to 18: Electronic registration for Spring Semester 2006

JAN 17: Spring Semester classes begin.



Look what's inside:

Saluting Student Achievement; Journal Club; Announcements 2

Pre-professional & Allied Health Updates 3

Vertebrate Zoology field trip; Secondary Education Scholarships 4

Biology and Allied Health Club Kicks "Butt"



If you were one of the 400+ students who attended the recent Great American Smoke-Out Fair at Kehr Union, it was difficult to ignore the message that smoking is bad for your health! The Biology and Allied Health Club shared information on the harmful effects of tobacco through the use of posters, models, and microscope slides showing lung cancer. Shown above is club president **Valarie Van Cleef**, "Ms. Butt" (actually **Jennifer Lease** from Speech Pathology and Audiology), and club member **Ray Castillo**. Also participating were Biology and Allied Health Club members **Ashley Corwin**, **Kelly Fleming**, **Maria Gallagher**, **Amy Maurer**, **Krissie Tofts**, **Michelle Sienkiewicz**, **Alessa Dalpiaz**, **Joel Gyimesi**, and **Katura Andrews**.

The club also let people demonstrate the effects of smoking on themselves. Remember those vital capacity tests you conducted with the handheld Proper spirometer in Concepts in Biology I and Anatomy & Physiology II? The Biology and Allied Health Biology Club encouraged smokers and nonsmokers to test their vital capacity with Proper spirometers. The objective was to determine whether or not smokers were more likely to have measured vital capacities less than predicted vital capacities (from nomograms that account for age, height, and gender). Most smokers in these relatively uncontrolled trials generally measured vital capacities lower than their predicted values! Still smoking?!

Thank you Biology and Allied Health Club for organizing and participating in this event!

Salute to December Graduates!



Congratulations to all BAHS December graduates. Best of luck in all your future endeavors and please stay in touch! To stay connected, remember that *BioSynthesis* can be accessed on-line at <http://departments.bloomu.edu/biology/>

B.S. Biology

Laura Bauman
Amy Christine
Sara Fisher
Jennifer Probst
David Sibley
Elena Insinga-Krick

B.A. Biology

Patrick Clancy
Jennifer Intelicato-Young
Amy Magana
Sarah Rowson

Medical Imaging

Jessica Horst
Cathy Kime
Elyce Morring
Laura Reynolds
Selina Wright



Congratulations to **Jennifer Intelicato-Young** who is graduating magnum cum laude.

December Undergraduate Commencement will be held on Saturday, Dec 17 in Mitrani Hall, Haas Center for the Arts. The ceremony will begin at 10:00 a.m. for the College of Liberal Arts and the College of Science and Technology. Graduates should assemble at 9:00 a.m. and are asked to enter Haas through the side door facing Columbia Residence Hall.



UNCF-Merck Offers Undergraduate Science Research Scholarships

Applications are now available for the 2006 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, 2005. The scholarship program web site is www.uncf.org/merck/

IMPORTANT ANNOUNCEMENTS

COURSE TIME CHANGE: The time for the lab and Wednesday lecture for Bioinformatics and Genomic Analysis (50.435) has been changed to Monday evening instead of Wednesday to avoid conflicting with Biochemistry II. The time for Bioinformatics and Genomic Analysis is now Monday 3:00 to 4:15 p.m. and 4:30 to 6:45 p.m. and Wednesday 5:30 to 6:45 p.m. This change has been made to accommodate biology majors who are chemistry minors.

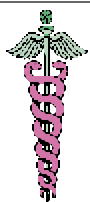
ATTENDANCE REQUIREMENT: Due to high demand for biology and allied health science courses, all students **MUST** attend lecture and lab the first week of class. Those students not attended will be dropped from the roll to accommodate students on waiting lists.

DEADLINES: The deadline to submit an abstract for the PA Academy of Science (PAS) Meeting is **December 15, 2005**. This year's annual PAS meeting is in Grantsville, PA (near Harrisburg) on March 31 to April 2, 2006. The meeting features a keynote address and research posters and presentations on a wide variety of topics. This is a good forum for students to present the results of their research projects. For more information see <http://pennsci.org/index.htm>



JOURNAL CLUB

Our last Journal Club of the semester is scheduled for Friday, December 2, 2005 at 3:00 p.m. in the Biological and Allied Health Sciences Seminar Room, 178 Hartline. Presenting will be graduate student **Stacy Rogers** who will discuss *Sex, lice, and videotapes: you have cuddly parasites in your barn*. Everyone is invited! We hope to see you there!



Pre-professional Committee News

The BU pre-professional committee aims to HELP YOU gain admission to professional school. We do this by advising pre-professional students, assisting students with the application process, evaluating student credentials, preparing committee letters of evaluation, obtaining resources for students relating to professional schools, and establishing relationships with professional schools. The co-chairs of the committee are **Drs. Joseph Ardizzi** and **Mark Melnychuk** (BAHS). Other committee members include **Dr. Cindy Surmacz** (BAHS) and **Drs. Christopher Hallen** and **Toni Trumbo-Bell** (Chemistry.) Students are encouraged to check the committee website (<http://departments.bloomu.edu/biology/preprof.htm>) for announcements, information on course selection, pre-professional test materials, and links to important web sites. Also, current information is displayed on the bulletin board outside of room 106 HSC.

Ohio College of Podiatric Medicine Offers Internships

The Ohio College of Podiatric Medicine in Cleveland, Ohio announces its 2006 pre-professional internship program. This program provides students with observational experience in podiatry in a hospital setting, in private practice, and in an outpatient clinic. Students will also have the opportunity to interact with podiatrists and podiatry students, to learn about the educational program at Ohio College of Podiatric Medicine, and to explore the city of Cleveland. Six sessions are available: January 3 – 6; January 9 – 13; June 6 – 10; June 12 – 16; July 10 – 14; and July 17 – 21. To be eligible, students must have completed their freshman year, be in academic good standing, and submit one letter of recommendation. Applications may be downloaded at www.ocpm.edu -> admissions->internships .

Army Health Professions Scholarship

The Army offers the F. Edward Hebert Armed Forces Health Professions Scholarship to students who are enrolled or accepted to an accredited graduate program and meet eligibility requirements for appointment as a commissioned officer in the U.S. Army Reserve. The Army provides full tuition, books and fees, and a monthly stipend. The Army requires that you be enrolled as a full-time student, be commissioned as an Army Reserve Officer, and perform 45 days active duty for training annually. The training may be performed at an Army health care facility. For more information, please contact Army Health Care Recruiter Captain Erica DiJoseph at Erica.DiJoseph@usarec.army.mil or 1(877) 230-2482.

Summer Opportunities

- The Georgetown Summer Medical Institute provides undergraduates and college graduates with a unique opportunity for immersion in the medical community at the Georgetown University School of Medicine, Washington, DC. The goal of the 6-week program is to provide preparation and insight to those considering a career in medicine. In the program, students take one course (Gross Anatomy or Biochemistry) along with a seminar entitled Physician and Society . To be eligible, students must be at least college juniors with a GPA of 3.2 or above. A background in biology, general chemistry, and organic chemistry is preferred. Tuition ranges from \$2,505 to \$3,340 depending on the course selected. Dormitory rooms and meal plans are available. Applications are due May 31, 2006. See <http://gsmi.georgetown.edu/> for more information.
- Minority students in their junior year are eligible for an expense-paid summer fellowship at the Medical College of Cornell University. This is a seven-week program for premedical students interested in working with underserved groups. The program provides an opportunity for the student to do an independent study-research project under the supervision of a faculty member and become acquainted with clinical and public health aspects of medicine that have a particular impact on underserved and minority populations. Information may be found at <http://www.med.cornell.edu/education/programs> ; for additional information, please see Dr. Ardizzi.



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.

Vertebrate Zoology Heads to Hawk Mountain

On Saturday November 19th members of the Vertebrate Zoology class visited Hawk Mountain and the Susquehanna Riverlands nature areas to observe birds. First stop was the Riverlands where we observed small birds including Downy Woodpecker, Blackcapped (or Carolina) Chickadee, Cardinal, Nuthatches, Blue Jay, and Canada Goose. The Susquehanna Riverlands is a natural area provided by Pennsylvania Power & Light Co. in Berwick. For those looking for a natural area to visit within easy distance (40 minutes), the area is located along Route 11, north of Berwick. The Riverlands offer trails as well as a natural history interpretative area with educational displays. Next we traveled to Hawk Mountain, a wonderful natural resource in our state. People travel here from far and wide to observe hawks migrating along the eastern seaboard. After a short hike, we nestled in among the rocks on North Lookout with eyes affixed to the sky in the hopes of seeing migrating birds of prey.



Vertebrate Zoology students (from left to right): **Nick Ernst, Brad Ott, Sherrol Browne, Brittany Valway, Mike Sedon, Zachary Wert, Jessica Teders.**

November is peak time for the migration of Golden Eagles, an uncommon bird to see in the field. A Golden Eagle was spotted earlier in the morning but we missed this “majestic” (to quote Roger Tory Peterson) bird. The most spectacular migrations of raptors occur in September and early October with the migrations of Broad-Winged Hawks and American Kestrels. During peak migration, hundreds if not thousands of birds can be observed spiraling upward on convection currents from the valley floor or riding northwest winds uplifted by north-facing rocky outcrops then gliding to the next thermal or uplift. Some of these birds are just passing through on their journey to winter grounds in South America. (Wouldn't you like to go to Brazil about now?) We observed a number of common raptors including Red-tailed Hawks, Turkey Vultures, Black Vultures, and Sharp-shinned Hawks. Visit the web sites for these natural areas at: <http://www.hawkmountain.org/> and <http://www.pplweb.com/susquehanna+riverlands/>.



Scholarships for Science Secondary Education Majors

BU CETP scholarship

The Bloomsburg University team of the Collaborative for Excellence in Teacher Preparation (CETP), a program funded by the National Science Foundation is awarding up to twelve scholarships of \$500 to \$1,000 each for the spring 2006 semester. To be eligible, students must be enrolled in a secondary education program in any science or mathematics, have 30 earned credits, and a GPA of 3.50 as of September 2005. Applications may be downloaded from <http://orgs.bloomu.edu/msc> and must be submitted to Dr. Bruce Wilcox, Department of Chemistry, Bloomsburg University by Monday, December 5, 2005. For more information, please contact Dr. Wilcox (bwilcox@bloomu.edu or 389-4145) or Dr. Shelley Randall (srandall@bloomu.edu)

Robert Noyce Scholarship Program

Scholarships and stipends up to \$10,000 are available through the Robert Noyce Scholarship program. The program is intended for applicants who are presently juniors, seniors, or graduate students completing a science or math degree and wish to become teachers. Applicants must commit to completing teaching certification requirements at a State System University within two years of the initial award. The program also targets science and math professionals who would like to become teachers. The Noyce scholarship program is sponsored by the PA State System of Higher Education through the Collaborative for Excellence in Teacher Preparation in Pennsylvania. The program is funded by the National Science Foundation. Applications can be obtained at <http://www.cetp-pa.iup.edu/>. Deadline for spring semester awards is December 15, 2005.