



BIOLOGY Department Newsletter Ithaca College



August 2006
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Greetings from the 2005- 2006 Chair

Marc Servetnick



I have just completed my first year as Chair. After returning to the Department from a one-year leave, it has been both exhausting and exhilarating. My year away was spent at the National Science Foundation; while it was fascinating to learn how the government funds research, it was strange to spend a year working in a building without any pipettors or microscopes. It's great to be back!

The department has been, as usual, vigorously active. Faculty and students continue to submit grant proposals, publish papers, and present their data at meetings far and wide.

The department continues to undergo changes, as well. Our former colleague, Flo Bernard, passed away in October. She was a dedicated teacher, colleague, mentor, and friend to many students and faculty, and she will be missed.

Dr. John Confer taught his last class in May, and will be on sabbatical for the 2006-07 year, before his retirement next Spring. We encourage you to visit our alumni web site, let us know what you're doing, and of course, let us know if you'll be back in town at any time. I look forward to hearing from you soon!

Longtime Biology Faculty Member, Flo Bernard, Passes Away

Flo Bernard, age 68, died October 20, 2005 after a



fifteen year battle with breast cancer. An outstanding teacher, Flo taught thousands of Ithaca College students, primarily biology and physical therapy majors in Fundamentals and Principles of Biology, among other courses, during her 30 year career at the college. Flo retired in 1997. Flo earned her Masters degree in Plant Morphology from Rutgers University, and was the first to describe the flowering process and life history of *Wolffia australiana*, a small floating plant. She served on numerous committees at the college and was involved in successful grants totaling about half a million dollars. She was very active in the community, working with the Ithaca Breast Cancer Alliance, among other organizations.

Flo will be missed. Please join us in extending our thoughts to the Bernard family.

The family asks that donations in Flo's memory be made to the Bernard Scholarship Fund, or to the Bernard Undergraduate Research fund (see next page).

Bernard Scholarship & the Undergraduate Research Fund

Flo Bernard and her husband, Biology faculty member Jack Bernard, established the Bernard Family Undergraduate Research Fund to support student research; a Biology Scholarship Fund was also established in their name by an anonymous donor.

The family has asked that donations in Flo's memory be made to the Office of Special Programs, Alumni Hall, Ithaca College, Ithaca, NY 14850. Jack Bernard has generously offered to match donations, up to \$3000, to each fund. The Bernard family, and the Biology Department, thank you for your donations.



Teaching Involvements

Teacher Education in the Sciences

This past year, students in the teaching option kept busy... David Syracuse, Sara Sullivan, Nolan Flores, Jeff Stahl, and Lisa

Seltzer taught during our annual spring DNA electrophoresis lab at Frederick Douglass Academy in NYC.

Last fall, Lisa Seltzer, Sara Sullivan, and David Syracuse developed and taught a microscopy lab to students in Ms. Brown's, Mr. Goins, and Mr. Gonzalez' biology classes at Frederick Douglass.

Sara, David, Lisa, and Sean Tracy were invited to attend a Biology Mentor workshop held for district biology teachers to introduce a lab module on Huntington's Disease.

Elementary Students Visit our Labs

As part of our continuing community outreach efforts, second grade students at South Hill Elementary school visited IC for a "Science Day" in June.

The students enjoyed activities in Biology, Chemistry and Physics. For the Biology session, students focused on the Animal Kingdom, looking at skeletons, preserved specimens, and lots of live creatures. Many faculty helped out, including Jean Hardwick, Ed Cluett, Marina



Caillaud, and students Ken Lim (pictured), Stephanie Cianchetti, and Bobby Janelli. This is an annual event and is thoroughly enjoyed by both adults and children!

Student Achievements

Several biology and biochemistry majors were recognized for their achievements in academics and research activities.

Awards

Bernard Scholarship

Rebecca Friend ('07) received the Bernard Scholarship. Jack and Flo Bernard were both intimately involved in the biology program at Ithaca College. The Bernards were an inspiration to thousands of students, and both Flo and Jack considered interacting with students the most important part of their careers at Ithaca College. This scholarship honors their commitment to helping students and is awarded to Juniors and Seniors in the biological science program based on financial need and good academic standing.



Ithaca Fund

Samantha Palmer (Biology '07) was awarded a grant from The Ithaca Fund to support her work on a project entitled "Genetic Variation of Virus Transmission in Greenbug Aphids". The work was conducted under the supervision of Marina Caillaud.

George A. Gonzalez-Gallardo Scholarship

Samantha Palmer ('07) was also awarded the Biology Department's George A. Gonzalez-Gallardo Scholarship. This scholarship was established in memory of George A. Gonzalez-Gallardo, a 1979 graduate. Recipients must demonstrate high academic achievement.

Jason Dickens Memorial Award

Hugo Valencia ('07) is this year's recipient of the Jason Dickens Memorial Award. This award is given in honor of Jason Dickens, who was an Ithaca College Biology major. Jason hoped to attend medical school and to use his talents to serve society as a physician. Tragically he was the victim of a boating accident in the summer of 1998. Hugo is planning on attending medical school upon graduation. His stipend will be used for textbooks and other academic needs.

Research Symposia

This year there were 31 junior research presentations and 1 honors research presentation.

Kastenbaum PreHealth Award

Amy Trosino ('08) was awarded the Kastenbaum PreHealth Award. The award is granted each semester and is used for assistance with preparation for the required standardized exams associated with admittance to graduate health programs such as: MCAT, DAT, OAT, and GRE.

Thomas Morrin Jones Scholarship

Hugo Valencia ('07) also received the Thomas Morrin Jones Scholarship. The scholarship is awarded to a senior with need who majors in the natural sciences and who, through his or her academic work demonstrates a commitment to the liberal arts and the tradition of social service as personified by Thomas Morrin Jones.



Presentations

◆ **Kyle Block, Mark Hager and Anthony Parisi**, "Monitoring Amphibian Road Mortality During Migration: Tompkins County, NY". Northeast Natural History Conference, sponsored by the New York State Museum. Albany, New York. (John Confer)

Regional Sigma Xi

◆ **Andrew Mullen and Ashley Battista** (Kirwin Providence) "Gram-positive and Gram-negative Bacteria Utilize Distinct Mechanisms To Inhibit Epithelial Cell Motility And Proper Healing of Skin Cell Wounds." (Kirwin was a poster judge.)

◆ **Samantha Palmer**. (Poster Presentation.) "Variation in gene expression in caterpillars of the tobacco hornworm". **Samantha received an honorary award for her poster.** (Marina Caillaud)

◆ **Martin Tomov and Vicki Cameron**. Poster presentation. "Stabilization of Mutant Forms of Cox2p by Deletion of YME1 and Overexpression of PET111".

Eastern College Science Conference

- ◆ **Nancy Andersen** (Poster Presentation) "Regulation of nitric oxide synthases expression in the guinea pig nervous system" (Jean Hardwick)
- ◆ **Adam Gattis** "Elevated atmospheric CO₂ alters trophic interactions among web-building spiders, insects and plants: a stable isotope analysis" (Jason Hamilton)
- ◆ **Robert Rivard** "An assessment of computer plug-loads in the Center for Natural Sciences at Ithaca College" (Susan Swensen)
- ◆ **Samantha Palmer** "Craving for potatoes in caterpillars: is it induced by changes in gene expression?" (Marina Caillaud)
- ◆ **Scott Werneke** "Metal interactions with slug glue proteins" **Winner of the Outstanding Presentation Award** (Andy Smith)

James J. Whalen Academic Symposium

- ◆ **Kyle Block, Mark Hager, and Anthony Parisi** "Cultural Response to Minimizing Highway Mortality for Migrating Amphibians" (John Confer)
- ◆ **Brittany Herits** "Carbon Metabolism of a Local

Coffee Company" (Jason Hamilton)

- ◆ **Stephanie Hylan** "Calculating Ithaca College's Greenhouse Gas Emissions" (Susan Swensen)
- ◆ **Stephanie Meyer and Matt Podolsky** "Ecosystem Services Provided by Stream Bank Erosion Control in the Town of Caroline: Supported by the Town of Caroline, Town of Ithaca, NYS DEC, US Soil and Water Conservation Service" (John Confer with support by Kenneth DeGraff)
- ◆ **Robert Rivard** "An Assessment of Computer Plug-loads in the Center for Natural Sciences" (Susan Swensen)
- ◆ **Justin Viggiano** "Reducing Solid Waste with a Local Coffee Company" (Jason Hamilton)
- ◆ **Rebekah Weck** "Effects of Global Warming on Animal Reproduction" (Jason Hamilton)

Poster Presentations

- ◆ **Samantha Palmer** "Effects of Dietary Experience on Gene Expression in the Tobacco Hornworm *Manduca sexta*" (Marina Caillaud)
- ◆ **Lia Stelljes** "Toward a More Sustainable Campus Part V: How do we Retrofit the Center for Natural Sciences?" (Beth Ellen Clark Joseph and Peter Melcher)

Student Recognition

Sigma Xi Membership

Four Biology students were inducted into [Sigma Xi](#) Membership into this society is by nomination. Those who have shown potential as researchers are invited to join as associate members. Full membership is conferred upon those who have demonstrated noteworthy achievements in research. Student inductees are listed below with their faculty advisor.

- ◆ **Darrin Bann '06** (Susan Swensen)
- ◆ **Samantha Palmer '06** (Marina Caillaud)
- ◆ **Martin Tomov '07** (Vicki Cameron)
- ◆ **Scott Werneke '07** (Andy Smith)

2006 Graduates

This year we had 42 graduates.

- 1 optometry 3-1 program
- 1 Biology BS
- 30 Biology BA
- 4 Biochemistry BA
- 1 Biochemistry BS
- 5 Biology (7-12)

ALUMNI CONTINUE TO SUCCEED

Please update your activities at <http://departments.ithaca.edu/biology/alumni/>

Rachel Adametz (Biology '05) is a Lab Assistant/ Manager in the Microbial Pathogenesis Department at Yale School of Medicine.

Zach Adelman

(Biochemistry '96) is an Assistant Professor in the Department of Entomology at Virginia Tech.

Jerry Ashrafi (Biology '03) is pursuing a DMD at the Boston University School of Dentistry.

Mae Beale (Biochemistry '01) is a Seva (volunteer) Program Administrator at the Kripalu Center for Yoga & Health.

Matthew Beverly (Biology '01) will be starting the Ph.D. program in Molecular and Cellular Biology at Brandeis University this fall. He is currently working as a Research Assistant at the Marine Biological Laboratory in Massachusetts.

Jaime Blair (Biology '99) received her Ph.D. from Penn State University in Biology and Astrobiology in August. The day after receiving her degree, she celebrated her marriage.

Alison Bowers (Biology '04) is a Cardiology Technician at Lawrence & Memorial Hospital in Connecticut. She is also a volunteer firefighter & EMT, and intends to apply to medical school in the future.

Chris Breuer (Biology '02) is pursuing a Ph.D. at Brandeis University.

Andrew Cameron (Biology '05) is a Lab Technician at the Mass General Hospital/Harvard University, Mass Institute for Neuro-degenerative Diseases.

2006 CNS Picnic

http://www.ithaca.edu/biology/06_cnspicnic.ppt



The 8th annual picnic was held at Cass Park. Students, faculty, staff, and families from Biology and Chemistry enjoyed the annual S.I.L.O. events (Silly Intra Laboratories Olympics).



This year Marc Servetnick's lab wins the trophy!

Cara Campbell (Biology '90) is pursuing a PhD at the University of Maryland. She is working on modeling freshwater mussel populations within Atlantic Slope drainages. Cara is also working as a Research Fishery Biologist at the US Geological Survey.

Amanda Cavallaro (Biology '04) is a Research Assistant and student at Columbia University. She is working towards a MPH.

Stacey Coleman Contakos (Biology '01) is pleased to announce her co-authored paper entitled, "Subdividing the embryo: A role for Notch signaling during germ layer patterning in *Xenopus laevis*". *Developmental Biology* 288 (2005) 294-307. The article is available at: www.ithaca.edu/biology/articles_contakos05.pdf

Jeremy Dobson

(Biology '03) is a 7th grade Science teacher at LaBelle Middle School in rural Florida.

Diane Duby (Biology '06) is a Research Technician in the Cancer Biology Department at the Dana Farber Cancer Institute in Boston, Massachusetts.

Gregory DuQuella (Biochemistry '92) is the Hospital Director, East Texas Medical Specialist at Good Shepherd Medical Center located in Longview, Texas. The department was thrilled

that he was able to return in the fall of 2005 to speak with the premedical students at Ithaca College.

Lauren Elich (Biology (7-12) '05) is working at UNC in Chapel Hill's, Environmental Sciences and Engineering department as a Research Lab Technician II.

Holly Falcone (Biology '96) earned a MAT at Montclair State University and is currently the Supervisor of Science K-12 at the Ramsey School District in New Jersey.

Natalya Fish (Biology '98) is a physician at the University of Miami - Jackson Memorial Hospital.

Alyson Follenius (Biology '04) is pursuing a Masters in Public Health, concentrating on Environmental and

Occupational Health with a certificate in Epidemiology at the George Washington University. She is pleased to announce her engagement to Nathan Best (IC '04 Park School alumni).

Jamie Fountain

(Biology '02) is pursuing a MD at the Albany Medical College. She has been accepted into the Pediatric Neuro-developmental Disabilities Residency/Fellowship program at Cincinnati Children's Hospital.

Colin Freas (Biology '03) is a FieldTester at Sensicore in Ann Harbor, Michigan.

Timothy Harrison

(Biology '98) received a MS and a DO from the Philadelphia College of Osteopathic Medicine, where he is currently a President.

Patricia Herson (Biology '87) is an Adult and Geriatric Nurse Practitioner at Johns Hopkins University.

Sandra (Kauffman) Anderson (Biology '83) has received two certificates from The Desert Institute of the Healing Arts; one in Massage Therapy, the other in Thai Massage. She is currently the Education Center Director, Bodywork Practitioner at her business. She is also pleased to announce her co-authored publication of the book Pathology for Massage Therapists.

Ke Ke (Biology '05) is pursuing a Ph.D. at the University of Wisconsin-Madison.

Meagan Kilbride (Biology '00) is pursuing a Ph.D. from the University of Vermont in Cell and Molecular Biology.

Melissa Krone (Biology (7-12) '06) received her Masters in Education and is teaching at the Greece Central School District in Rochester, New York.

Julie Kubik (Biology '98) received a MEM (Master of Environmental Management) from Duke University. She is currently a scientist at GlaxoSmithKline. Julie is the second author on a paper describing parts of her master's thesis work: Alterations in cyclin A, B, and D1 in mouse dentate gyrus following TMT-induced hippocampal damage. *Neurotox Res.* 2003;5(5):339-54. She is also engaged to be married in August 2006.

Sarah Legg (Biology '05) in attending the University of Medicine and Dentistry of New Jersey School of Osteopathic Medicine.

Meghan Lindauer (Biology '01) and **Maira Pires** (Biology '02) are pleased to announce their joint publication, along with

other co-authors. The abstract is available at www.ithaca.edu/biology/kudos_lindauerpires05.pdf. Meghan is enrolled in a Ph.D. program at the University of Oregon Health Sciences Center while Maira is enrolled in a Ph.D. program at Columbia University.

Dennis Meyers (Biology '93) is the Account Manager for South California, Arizona & Utah at GE Healthcare.

Allison Mikita (Biology '05) is a Research Assistant at the Transplantation & Beth Israel Deaconess Medical Center, Harvard Institute of Medicine.

John Millholland (Biochemistry '95) is a Research Scientist at EXACT Sciences Corp in Marlborough, MA. He is pleased to announce another addition to their family. Evan was born in May, 2005.

Kirsten Nedal (Biology '04) is the Account Manager at Direct Supply in Milwaukee, Wisconsin.

IC Choice Award

Nancy Pierce was selected as one of this year's IC Choice Award recipients. She was recognized for her commitment and support with regard to the Biology Department newsletter. In an effort to recognize the achievements of alumni, faculty and students, Nancy gathered information about recent alumni achievements, assembled a rough draft of the yearly newsletter, and incorporated faculty changes into the final document. Additionally, the faculty emphasized in their nomination the overall excellent job which she does to keep the department running smoothly. Congratulations, Nancy! Well deserved!



Michelle Niescierenko (Biology '02) will be attending the Pediatric Residency Program at Harvard's Boston Children's Hospital this fall. We congratulate her on her multiple accomplishments: won a \$10,000 scholarship from the American Medical Association (1 of 4 nationally), received the National Leadership Award, by the American Medical Association, for medical students (1 of 15), and her research honors thesis on improving access to health insurance is being published in June '06 in the *Journal of the National Medical Association*.

Amanda Popielski (Biology '04) is pursuing a Masters of Education in Biology at East Stroudsburg University. She is also teaching Web Design in the Delaware Valley School District in Milford, PA. Amanda is pleased to announce her marriage to Jayson Pope (IC '02, School of H&S) this summer.

Liz Pratico (Biochemistry '03) is enrolled in the Biochemistry Ph.D. program at University Illinois at Urbana-Champaign. She is pleased to announce the publication of a paper in the June 20th, 2005 issue of *Nucleic Acids Research*.

Sarah Repicky (Biology '03) is pursuing a Ph.D. at the University of Miami, Molecular and Cellular Pharmacology. She has 2 papers in press, and a third which will be submitted. Sarah is pleased to announce her June 2006 wedding.

Joe Resti (Biology '05) is pursuing a MD at the SUNY Upstate Medical School.

Candy (Reynolds) Cummings (Biology '01) is pleased to announce her marriage, and is continuing to work at Stiefel Laboratories in Albany, New York.

Tracy Robinson (Biology '03) was awarded a \$25,000 Stead Research Scholarship from Duke University School of Medicine! The scholarship will allow her to conduct research under the direction of Dr. James A. Tulsy on physician communication with cancer patients. She is excited to have been elected into the [Alpha Omega Alpha the National Medical Honor Society](#). This is the only national, medical honor society in the world! She is 1 of 8 students at Duke to be elected into the Society.

Lyndsey Runaas (Biology '06) will be attending medical school at the University of Wisconsin this fall.

Marc Schneiderman (Biology '75) is the recipient of the "Clinical Preceptor-Teacher of the Year Award for 2005" from the University of Pittsburgh Medical School. Marc has been preceptoring students there for 10 years. Additionally, he continues in his private practice (family medicine) of more than 20 years.

Kenishana Simpson (Biochemistry '04) is a Research Coordinator at the Mt. Sinai School of Medicine.

Tom Startz (Biology '05) is a Research Assistant at the National Jewish Research and Medical Center in Colorado.

Suzanne Taylor (Biology '01) is enrolled in the DVM program at Tufts University.

Shelagh Tupper (Biology '01) is a Biological Science Technician, at the USDA/APHIS/WS/National Wildlife Research Center.

Heather (Welsh) Spooner (Biology '01) completed her Masters of Education in Curriculum and Instruction through Plymouth State University. She and her husband are happy to announce the arrival of their baby boy in September 2005.

Dana Walsh (Biology '05) is attending Lake Erie College of Osteopathic Medicine in Erie, Pennsylvania. Dana is pleased to announce her engagement to Brian Smith (IC Grad May '05) and will be getting married on June 30, 2007 in Maine.

Kristin Weaver (Biology '04) will be attending Lake Erie College of Osteopathic Medicine taking a Pharm D degree in the fall. After that she plans to work as a pharmacist in a hospital.

Grants

2005-06 continued to be another successful year for funding.

- ◆ Over \$1.5 million approved
- ◆ Over \$860,000 pending

H&S 50th Anniversary

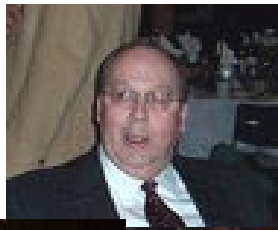
The School of Humanities and Sciences held a 50th Anniversary celebration on Tuesday, March 21, 2006 in the Emerson Suites. The evening was filled with good food, good cheer, entertainment by the theatre arts students, and a keynote address. It was nice to see a few emeriti return too (Imre Tamas, Steve Thompson, Jack Bernard). As part of the year long celebration, several Biology Seminar speakers were IC alums.

- ◆ **Karen Allaben-Confer** ('69), "The Art of Birds: Alumna Journey through Biology"
- ◆ **Joseph Markham** ('83), "A Career in Medicine: More than you might expect"
- ◆ **Zach Adelman** ('96), Virginia Tech University Mosquitoes, Viruses, and Disease: How genetics can be used to understand and break the cycle.

Changes in the Department

Environmental Studies Director

John Confer has taught at the College for 37 years. For the last three years he has also been the director of the Environmental Studies and Environmental



Science programs. John taught his last class in May 2006. He will continue to conduct research while on sabbatical for the 2006-07 academic year; he plans to retire in Spring 2007. Students will miss John's passion and dedication to teaching. (A recent *Ithacan* article on Dr. Confer is at www.ithaca.edu/ithacan/articles/0603/23/news/8conferr.htm)

Susan Allen-Gil has taken over as Environmental Studies/ Science Coordinator. The department is searching this year for a tenure-track faculty member to replace Dr. Confer and teach ecology-related courses. Search information is available at www.ithaca.edu/biology.

Lab Coordinator

Brenda Putnam joined our department this spring. She has extensive background in science. Prior to joining the Biology Department she



worked at the Sciencenter in Ithaca. She has also taught high school Biology, Physics, and Chemistry.

Lab Technician

Navina Hamilton joined Marc Sertvetnick's lab to assist with his research. Marc is continuing his nearly \$300,000 grant from NSF for his project entitled, "Use of transgenic *Xenopus* embryos to study cell specification in eye development."



Educational Opportunities Expand

Study in London

Susan Allen-Gil offered a new, 3-credit course entitled, "European Environmental Issues", in London during the spring semester. The course adopted an interdisciplinary, field-based perspective to examine current environmental issues in Europe, and particularly, in the U.K. Students explored the geological and natural history of Europe, human history with an emphasis on environmental impacts of industrialization and urbanization, and current environmental issues. They used scientific investigation to better understand the

biological and chemical principles that are fundamental to exploring environmental issues. The class also evaluated the cultural and political differences between Europe and the U.S. and how these difference affect national approaches to environmental policy. The course was successful and was well received.

Sustainability Research

Students interested in sustainability have the opportunity to do independent research developing seminars/lectures in this area for course credit. The goal is to put together information and develop a presentation that could be used either by high school/middle school teachers or by college professors who are interested in covering these topics in their classes. A brief sample of possible topics includes the following: sustainable agriculture or landscaping, solar energy, alternative fuel sources (biofuels, ethanol), ecological footprint, green chemistry, and human population growth and carrying capacity. Many other topics are possible, and could be developed in discussion with a faculty mentor.

Faculty Activities

Leave of Absence

Vicki Cameron was on leave of absence from Ithaca College for the fall semester of 2005. During that time she was a visiting

faculty member at Harvard University where her primary responsibility was teaching the sophomore level molecular biology course. At Harvard, the course enrolled more than 200 students and all lectures were videotaped so students could review the content at their leisure. In the spring of 2006, Vicki returned to IC and taught essentially the same course to 21 Ithaca College Biology and Biochemistry students. This course now serves as the second semester of the year-long biochemistry course required of all biochemistry majors. Vicki is very happy to be back at Ithaca College and confirms that it is much more rewarding to teach classes of 20 students than those with more than 200. Her leave was very productive in terms of preparing the class material which she was then able to use here in our department.

Promotion

Bruce Smith was granted promotion to full professor in August 2005.

Sabbaticals

Susan Allen-Gil spent the spring semester on leave at the Ithaca College London Center. As mentioned above, she taught European Environmental Issues. While there she continued her research on arctic contamination, and will be giving a paper at a NATO sponsored advanced

research workshop in Romania in September.



Kit Muma and **Bruce Smith** spent 7 weeks during the fall term traveling in the South Pacific (Cook Islands and Fiji), and the north and south islands of New Zealand. Their primary reason for

visiting the Pacific islands was to broaden their experience in marine ecosystems. The bulk of their time was spent snorkeling on coral reefs where they filmed wildlife using underwater video and still cameras. The images they took will be used extensively in Bruce's teaching in Animal Behavior and Invertebrate Zoology. They also sampled freshwater aquatic organisms while on Rarotonga.

There were two main reasons for travel in New Zealand: to expand their knowledge base of wildlife and conservation issues, and to interact with colleagues at the University of Otago where Bruce gave a seminar on water mites.

Field-related experiences in the South Pacific have broadened their perspective, and their experiences in a different and largely divergent faunal region can now be shared with Ithaca College students through their teaching. Bruce has already incorporated some of the video footage they took (of a nesting colony of gannets) into his Animal Behavior class taught in the Spring of 2006. They are

grateful for the opportunities that were provided to them by Ithaca College through the sabbatical leave program. Full details are available as a PDF at www.ithaca.edu/biology/mumas/mith_sabbatic05.pdf

Publications

(students are underlined>

S. Allen-Gil, P. Bardaglio, L. Walker. 2005. "Educating for Sustainability: Ithaca College and Ecovillage at Ithaca". Proceedings of the Greening of the Campus VI: Extending connections, Ball State University, pages 5-17.

Burrows, M.E., **M.C. Caillaud**, D.M. Smith, E.C. Benson, F.E. Gildow and S.M. Gray. 2006. "The genetic regulation of luteovirus and polerovirus transmission in the aphid *Schizaphis graminum*". *Phytopathology*, 96:828-837

Choat, B., Lahr, E.C., **Melcher, P.J.**, Zwieniecki, M.A., and Holbrook, N.M. 2005. "The spatial pattern of air seeding thresholds in mature sugar maple trees." *Plant, Cell, and Environment*, 28(9): 1082.

Confer, J. L., T. Hauck, M-E. Silvia, V. Frary. 2005. "Managing Rights-of-Way Shrublands for the Avian Community. In *Environmental Concerns in Rights-of-Way Management*, Seventh International Symposium (J. W. Goodrich-Mahoney, Ed.). Electric Power

Jean Hardwick, Amy Kotarsky, and Melanie Powers. 2006. "Ionic mechanisms of histamine-induced responses in guinea pig intracardiac

neurons." *Am J. Physiol Regul Integr Comp Physiol* 290: R241-R250. Research Institute, Washington, D.C.

Knepp, R.G., J.G. Hamilton, J.E. Mohan, A.R. Zangerl, M.R. Berenbaum, and E.H. DeLucia. 2005. "Elevated CO₂ reduces leaf damage by insect herbivores in a forest community". *New Phytologist*. 167:207-218

Ort, D.R., E.A. Ainsworth, M. Aldea, D.J. Allen, C.J. Bernacchi, M.R. Berenbaum, G.A. Bollero, G. Cornic, P.A. Davey, O. Dermody, F.G. Dohleman, J.G. Hamilton, E.A. Heaton, A.D.B. Leakey, J. Mahoney, T.A. Mies, P.B. Morgan, R.L. Nelson, A. Rogers, A.R. Zangerl, X-G. Zhu, E.H. DeLucia, and S.P. Long. 2006. "SoyFACE: The effects and interactions of elevated [CO₂] and [O₃] on soybean". In Nösberger, J. et al, Managed ecosystems and CO₂: case studies, processes and perspectives. Springer Verlag.

Sack L, Melcher PJ, Liu WH, Middleton E, Pardee T. 2006. "How strong is intra-canopy leaf plasticity in temperate deciduous trees?". *American Journal of Botany* 93, 829-839.



A. M. Smith and **J. A. Callow** (Eds.). 2006. Biological Adhesives". XVII, 284 p., Springer, Berlin. **A. M. Smith.** 2006. "The biochemistry and mechanics of gastropod adhesive gels". In, Biological Adhesives, A.M. Smith and J.

A. Callow (Eds.), pp. 167-182. Springer, Berlin.

Tebbutt, M. C., Lowe-Forrest, L., Santoriello, A., Clement, W., and Swensen, S. 2006. "Phylogenetic relationships of Asian Begonia, with an emphasis on evolution of rain-ballist and animal dispersal mechanisms in sections *Playcentrum, Sphenanthera* and *Leptosae*". *Systematic Botany* 31(2): 327-336.

Presentations

The faculty have continued to be very active in attending conferences to present their work. Over the last year there have been 43 presentations. Some of the many are listed below.

Alumni & Faculty

Karen Allaben-Confer ('69) and **John Confer** presented at the Cape Cod Museum of Natural History.

◆ **Karen Allaben-Confer**, "The Art of Birds-from Terns to Petrels and Puffins".



- ◆ **John Confer**, “The Removal of Science from Public Decisions: A Discussion about Global Warming & Evolution”.

Darwin Day

Sponsored by The Museum of the Earth, Ithaca College, and Cornell University.

- ◆ **John Confer** described that random variation in mutations plus selection for the most fit is a very powerful tool for change.
- ◆ **Marc Servetnick** addressed the evolution of eyes, an example often cited by creationists as a shortcoming of the theory.
- ◆

Susan Swensen introduced the video “Origin of Species: An Illustrated Guide”.

Summer Institute

The Center for Teacher Education at Ithaca College offered a summer institute. The subject area focused on the ongoing implementation of the Ithaca College Mission and Institutional Plan through the Core Experience. Department participation included:

- ◆ **Jason Hamilton** and **Susan Swensen**, “Social and Environmental Responsibility”.
- ◆ **Nancy Jacobson**, “Organizational collaborator”.

Jack and Flo Bernard Family Undergraduate Research Fund

Name: _____ Major: _____ Graduation Year: _____

Home Address: _____



Enclosed is my check for \$_____ made out to the **Bernard Family Undergraduate Research Fund**.

Send to: Office of Special Programs
Ithaca College
310 Alumni Hall
Ithaca, NY 14850-7055

Comments: _____

**The Biology Department
Thanks You
for Your Generous Support!**



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