



Preparing People to Lead Extraordinary Lives

LOYOLA
UNIVERSITY
CHICAGO

DEPARTMENT OF BIOLOGY

NEWSLETTER

No. 2: May/June 2005

Notable Student Achievements



*Kathi Jo Jankowski and Monika Freyman,
recipients of Nature Conservancy Awards,
at Cheboygan Marsh*

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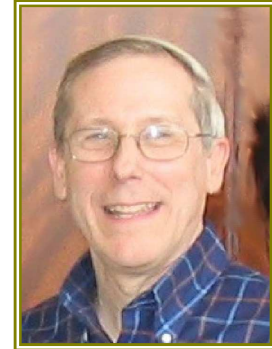
Academic year 2004-05 has been one of the most exciting in recent Departmental history. On December 3, 2004, we celebrated the dedication of the newly constructed *Michael R. and Marilyn C. Quinlan Life Sciences Education and Research Center* and moved into the building in January. I want to thank all of you who worked so hard designing the building, supervising the construction, and getting the move done in such good order. We were able to start the new semester in good form - and that is a testimony to the hard work and dedication of all of you. We can all be proud of the overwhelmingly positive student response to the new facilities.

As the Department continues to grow, we are seeking more student input and advice on our programs. In this issue you will read about our new Undergraduate Advisory Council, which acts as the representatives of our more than 1,100 majors. The Council members share their opinions and insights with me on a regular basis and are currently conducting a survey of our majors to get more ideas. *Tri Beta* has been quite active in the past few years and I regularly meet with their officers to hear their ideas and support their programs.

You will soon be hearing more about some new outreach programs to our alumni. We already have an alumni page on our web site and plans are underway for a newsletter specifically for Biology alumni. Progress is also being made toward the creation of a Biology Alumni Advisory Board, which will not only help us better serve the needs of students in contemporary life sciences but also begin planning some alumni events.

This issue highlights the accomplishments of a number of our students as well as both new and long-time faculty and staff. Enthusiasm and dedicated service are a hallmark of everything that goes on in the Department.

Thanks so much for everything you have done this academic year, and have a restful and productive summer.



Jeffrey Doering, PhD
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Frontiers in Science Symposium

The Frontiers in Science Symposium was highlighted by a talk delivered by the eminent, Joy B. Zedler, PhD, Aldo Leopold Chair in Restoration Ecology, of University of Wisconsin-Madison.

Internationally recognized in the fields of wetland and restoration ecology, Dr. Zedler's lecture entitled "How Invasive Species Challenge Ecological Restoration" drew from her work in southern California and, notably, Wisconsin and explored sedge meadows and how hydrological disturbances shift native vegetation toward reed canary grass (*Phalaris arundinacea*) and hybrid cattails (*Typha x glauca*).

"Dr. Zedler is a seminal thinker in wetland and restoration ecology and very active in the practice thereof," remarked Dr. Roberta Lammers-Campbell. Dr. Emma Rosi-Marshall who co-organized the Symposium with Dr. Howard Laten added, "Dr. Zedler's lecture was illuminating and attracted a wide audience not only from Loyola but also Northwestern University, DePaul University, the Park Service, etc. It capped another successful year of science learning."

Hosted annually by the Biology Department, the Frontiers in Science Symposium took place on April 28th and 29th. This two-day event allows students from several departments to participate, giving poster presentations on many different areas of the sciences.



Dr. Hunter O'Reilly presents the poster she designed specially for the Symposium to keynote speaker, Dr. Joy Zedler (left).



*Grateful acknowledgement is made to Northwestern University for permission to reprint excerpts and photos/
Photographer, Michael Hui*

On April 23rd, the first annual *Chicago Area Undergraduate Research Symposium* (CAURS) took place. A collaboration between Loyola University Chicago, Northwestern University, University of Chicago and the University of Illinois at Chicago, this stimulating day-long event provided an excellent opportunity for undergraduate students, faculty, alumni, and the Chicago research community to actively participate in the support of undergraduate research.



More than 80 students presented their research findings through oral and poster presentations to faculty, staff, members of the Chicago research community, and their families and friends. Students and attendees also participated in an academic and career forum and listened to a lecture on stem-cell research by Harinder Singh, Ph.D., Professor of Molecular Genetics & Cell Biology at the University of Chicago.

Students who presented their research and their advisors were invited to attend the Awards Banquet where they enjoyed dinner and listened to an inspiring Keynote Address by Dr. Steven Rosen, MD, FACP, a Genevieve Teuton Professor of Medicine, at Northwestern University Feinberg School of Medicine.



The day reflected the four participating universities commitment to faculty-mentored undergraduate research.

Emily Miller, junior student, joined in organizing the event and, among other Loyola Biology students, in poster presentations. Dr. Bryan Pickett was presented an award for "Outstanding Contribution in Support of Undergraduate Research." Congratulations, everyone!

Chicago Area Undergraduate Research Symposium (cont'd)

Loyola Presentation Participants

Convergent projects to the CRF neurons in the lateral hypothalamus from the amygdale and bed nucleus of the stria terminalis in the rat.

Amber A. Afshar

Research Advisor: Faculty-Advisor: Dr. Thackery Gray

Feynman Diagrams, going backward in time

Yevgeny Binder and Maciej Karcz

Research Advisor: Dr. Alexandr Goltsiker

Conformational Changes of M4 Dogfish Apo-Tactate Dehydrogenase

Liliya Lund

Research Advisor: Dr. Kenneth W. Olsen

The Effects of Parental Monitoring on Adolescent Substance Use

Angela R. Volz

Research Advisor: Dr. Noni Gaylord-Harden

Physical Mapping of the p arm of HC21

Emily Miller

Research Advisor: Dr. Jeffrey Doering

Effects of an Invasice Cattail Species on Sediment Microbial Communities in a Wetland Ecosystem

Nicholas Angeloni

Research Advisor: Dr. John Kelly

Determination of a Consensus Sequence of Transposable Elements Using Computer Programs

Lukasz Gierut

Research Advisor: Dr. Howard Laten

Talk During and After Events: How an Elaborative Style Impacts Event Memory

Justine D. Hayes and Sarah E. Vitzthum

Research Advisor: Dr. Catherine A. Haden

Our Mulcahy Scholars

The Mulcahy Scholars Symposium was on May 11, 2005. The following Biology undergraduates presented posters:

Sequencing Low Copy Number Repetitive Sequences on the Centromere of Chromosome 21

Nadia Alvi

Research Advisor: Dr. Jeffery Doering

Clone and Identify Gene(s) Responsible for DFB Degradation

Megan Frawley

Research Advisor: Dr. Domenic Castignetti

Computer-Based Characterization of Transposable Elements in the Soy Bean Genome

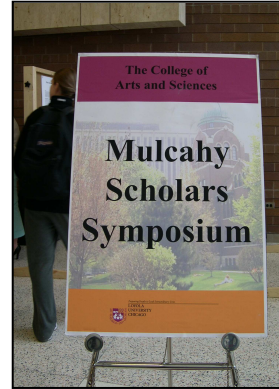
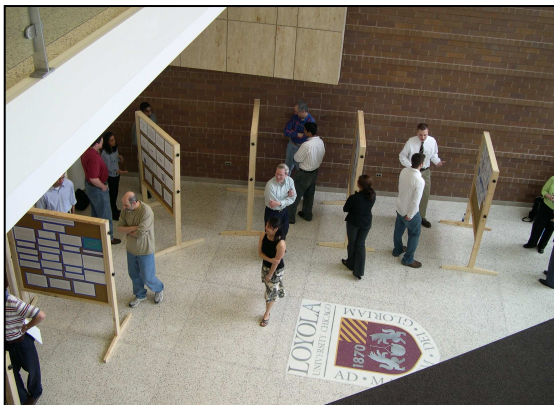
Lukasz Gierut

Research Advisor: Dr. Howard Laten

Are Sensory Axon Terminals Repelled from Inappropriate Cells Adjacent to Target Cells by Cell Surface Repellent Molecules Called Ephrins

Jenny Krizman

Research Advisor: Dr. William Rochlin



The Siderophore of a Siderophore-Degrading Bacterium

Katherine Marsh

Research Advisor: Dr. Domenic Castignetti

Analysis of the ADD 1 Gene of Arabidopsis

Junaid Moshin

Research Advisor: Dr. Bryan Pickett

Characterizing Satellite I Sequences on Human Chromosome 21

Payal Patel

Research Advisor: Dr. Jeffery Doering

Masculinization of the Female Rat by the Estrogenic Chemical BPA

Michael Stokas

Research Advisor: Dr. Diane Suter

Are Sensory Axons Repelled by Sema3A and Sema3F in Vivo

Ryan Vilbig

Research Advisor: Dr. William Rochlin

The Effects of Circannual Rhythms of Hibernation and Senescence on the Activity of Glutathione Reductase (GR) in the Erythrocytes of the 13-lined Ground Squirrel.

Leena Walters

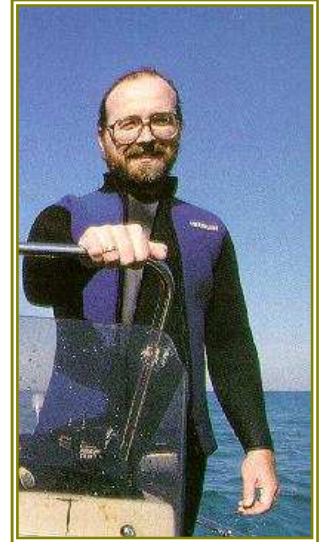
Research Advisor: Dr. Albert Rotermund Jr.

Biology Department Bids Fond Farewell

This June, we will bid a fond farewell to one of our loyal colleagues and best of friends. After serving the Biology Department and Loyola for 25 years, John Quinn will be leaving Loyola and moving to Georgia, where Mary will become Chair of the Chemistry Department at Georgia Southern University in Statesboro (near Savannah).

While it will be sad for us to say good-bye, it has been a pleasure to work with such a wonderful person whose work contributions have been extensive and who has been part of the many exciting changes in our Department.

A long-time Loyolan, John completed his BS in Biology at Loyola, and received an MS and MBA as well. Soft-spoken, collegial, and knowledgeable, John has been an asset to our Department where he has been Lab Coordinator for most of his career. He proved an excellent teacher and guide for the many student workers and a strong resource for lab instructors and faculty over the years.



John's talents were diverse. He also served as computer guru and advised and assisted in the maintenance of our facilities. Most recently he played a major role in supervising the construction of and move to the new building. With a sense of humor, John proceeded with each task in his "Can Do" attitude and friendly manner.

We will certainly miss John, Mary, and their children, Maura and Patrick. We wish them well in this exciting new phase of their lives.

Inaugural Senior Reception

The Biology Department held its first-ever Senior Reception to honor our graduating seniors and celebrate their upcoming commencement. A number of students and several University administrators participated in this happy event. Special thanks to Mr. Robert Ward and Ms. Nicole Drusinsky of Alumni Relations, who were introduced and who helped welcome the next phase of our students' lifelong relationship with Loyola. Special thanks to Audrey Berry and Nancy McVittie, who organized the event.



Current Research with John Kelly

Dr. John Kelly delivered a talk at the Annual Symposium sponsored by the Center of Advanced Materials for Purification of Water with Systems, an NSF sponsored research center at the University of Illinois. The symposium was held April 13-15, 2005 in Atlanta, GA. We asked him to provide an abstract of his presentation.

Development of DNA Microarrays for the Detection of Nitrifying Bacteria in Wastewater Treatment Systems

By John Kelly, PhD

Nitrification, the conversion of ammonia to nitrate via nitrite, is a critical step in the removal of nitrogen in many wastewater treatment systems. The maintenance of stable nitrifying bacterial communities in these treatment systems is critical to their proper functioning, but can be difficult because nitrifying bacteria are sensitive to shifts in pH, temperature, and a number of inhibitors. Nitrifying bacteria have proved particularly difficult to study by conventional cultivation techniques because of their long generation times and low growth rates. Therefore, a rapid, culture-independent detection technique for nitrifiers would be useful for the management of wastewater treatment systems. DNA microarrays, with their high probe capacity, offer the potential for comprehensive monitoring of microbial communities. We are developing a microarray format in which oligonucleotide probes targeting 16S rRNAs are individually immobilized within polyacrylamide gel pads bound to the surface of a glass slide. RNA isolated from pure cultures or environmental samples serves as the target for hybridization to the immobilized probes. We have built and tested a DNA microarray containing a set of probes targeting both ammonia-oxidizing and nitrite oxidizing bacteria. Testing of the microarrays with pure culture reference strains demonstrated that melting profile analysis could be used to achieve a high level of specificity. Application of the microarrays to samples collected from several wastewater treatment facilities in the Chicago metropolitan region demonstrated that nitrifying bacteria could be detected by microarray hybridization. The specificity of microarray detection was evaluated using on-chip melting profile analysis, and by two independent, established methods - membrane hybridization and terminal restriction fragment length polymorphism fingerprinting (T-RFLP). The application of DNA microarrays to wastewater treatment systems, which has been demonstrated in the current work, should offer improved monitoring capabilities and process control for treatment systems, which are susceptible to periodic failures.



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Dr. Kelly also recently gave an invited seminar in the Department of Civil and Environmental Engineering at Northwestern University on April 20. Following is the abstract.



Impacts of Global Change Processes on Microbial Communities

By John Kelly, PhD

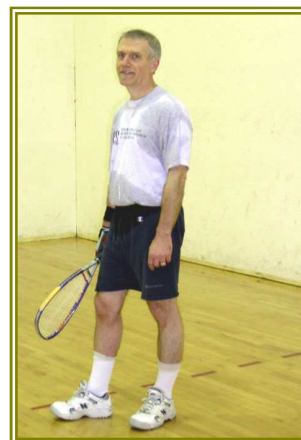
Previous research has demonstrated that human activities, including the burning of fossil fuels and the introduction of invasive species, can significantly impact ecosystems on a global scale. My lab, in collaborator with Dr. Nancy Tuchman, has recently begun exploring the impacts of these global change processes on a smaller scale by focusing on microbial communities. Microbial communities are relevant to both terrestrial and aquatic ecosystems due to their contributions to nutrient cycling processes. We have examined the impacts of elevated levels of atmospheric CO₂ by examining soils associated with trees that had been grown under ambient CO₂ (360ppm, AMB) and under the levels of CO₂ predicted for the year 2050 (720ppm, ELEV). After 5 years of treatment the soils under the ELEV trees showed a 47% decrease in soil nitrate and a 50% decrease in total soil nitrogen as compared to the AMB treatment. Phospholipid fatty acid (PLFA) analysis revealed that ELEV treatment resulted in significantly higher populations of fungi and gram negative bacteria in the soils. Terminal restriction fragment length polymorphism (T-RFLP) analysis also revealed shifts in the species composition of both the soil bacterial and fungal communities. We also examined the leaves produced by these trees and found significant changes in the composition of leaves grown under ELEV conditions, including significantly higher concentrations of lignin and a higher C:N ratio. When these leaves were placed into a stream, the species composition of the bacterial communities colonizing the leaves differed between AMB and ELEV leaves, which could have implications for stream food webs. We have also recently begun examining the impacts of an invasive plant species, *Typha x glauca*, on microbial communities in a freshwater wetland located in northern Michigan on Lake Huron. Our results indicate that the invasive plant is having a significant impact on the sediments, including a 4-fold increase in organic matter and a 1.8-fold increase in total inorganic nitrogen. T-RFLP analysis indicated that the invasive plant was also causing a shift in the species composition of the sediment bacterial communities.

Junior Science and Humanities Symposium

The annual Junior Science and Humanities Symposium (JSHS) took place this past April and was held for the first time in the new Life Sciences Building. Dr. William Kroll, faculty organizer for the event gave us the scoop. Longstanding Loyola racquetball champ, Bill won the spring semester's intramural tournament on March 23.

Tell us a bit about the Symposium.

JSHS is an opportunity for high school students who are engaged in original research to present their work. It is NOT a science fair in the sense that the research is original. Presentation format is essentially the same as that used in scientific meetings. Some students work in university labs with research scientist mentors. Some work at home with equipment that they build themselves. Last year we had a student from Evanston Township who won at National and went to the Youth Science Forum in London with a device he built to study thermal conductivity a copper using the drive mechanism from a discarded printer. This year we had almost 40 papers submitted from 10 different area high schools.



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What is the best thing about the JSHS?

The best thing is seeing the incredible creativity that the students bring to their projects. As I mentioned earlier, last year Seth Flaxman, who was then a student at Evanston Township H.S. took first place at the national symposium with a project on thermal conductivity in a metal in contact with a moving heat source. He built his apparatus using parts from a discarded printer and inexpensive sensors from Radio Shack. The judges were amazed at the simplicity of the apparatus and the sophistication of the project.

What keeps you participating year after year?

It's a way to reward the efforts of the students and showcase their talents. Hopefully, this encourages them to continue on in the sciences.

If you could expand the program in any way and there were no budget or time constraints, what would you like to do with it?

With no budgetary constraints we might be able to extend the symposium over two days, bring in top scientists to speak and take students to the great museums, libraries and resources that Chicago has to offer.

How do you think our involvement with this program benefits Loyola/the Biology Dept?

Besides the students presenting their work, we may have as many as 100 students, teachers and parents who participate as observers. We run tours of our new Life Sciences Education and Research Building. If students' experience at the Symposium is positive and they are impressed by what they see of Loyola, perhaps some will matriculate at the university and become Bio majors.

Biology Student Organizations

Student Advisory Council

By Randy Carpenter,
Freshman Representative

The Loyola University Biology Student Advisory Council is a ten-member organization that acts as a mediator between the Biology Department faculty and the Biology student body. In its second year of existence, the Council is geared toward improving the communication between students and faculty. The Council consists of two members for each undergraduate year, elected during the fall term of their freshman term, and two "at large" positions that serve a term of one year. Dr. Jeffrey Doering is the Council's chairperson and oversees all Council activities.

During the opening of the new Life Sciences Building, Council members aided in tours and the set-up of various displays. The Council also created a time capsule filled with various University and Biology Department materials and information, representing the current time and age. This capsule will be buried near the new Building, where it will stay for 50 years, when future members of the Council and Biology Department will retrieve the capsule and place it on display.

The Council recently completed the Biology Student Survey. This comprehensive survey asks questions on classes, professors, research and many other areas within the Biology community. The survey is currently up on the Biology Department website for Biology Majors to file. All surveys will be compiled and looked at over the summer and next fall.

Biology's Student Advisory Council will be holding interviews for any students interested in the two freshman positions during the beginning weeks of the fall term. Two "at large" positions will be available to all undergraduates. Prospective members can look for fliers posted around campus early next fall. The Council will also be available at the Organization Fair that occurs in the beginning weeks of the fall semester.

The Student Advisory Council, although early in its existence, has successfully been able to improve the quality of education at Loyola. By working with the Department faculty and staff, these ten students have been helping to improve the communication between students and professors. Within the next few years, the Biology Council is hoping to increase this communication and look into other means of improving the Biology Department. Look for further achievements by the Loyola University Biology Student Advisory Council in the near future.



Dr. Jeffrey Doering, Dept. Chair (center), and Biology Student Advisory Council (left to right): Gurbeer Sanghera (freshman), Teresa Olson (junior), Randy Carpenter (freshman), Fatima Guzman (sophomore), Andrew Loehrer (senior), Christi Lindorfer (junior), Tena Maroor (sophomore), Michael Voronov (sophomore). Not pictured: Elaine Cruz and Sara Obid (seniors)

Notable Student Achievements

NSF Graduate Fellowship

A round of applause to Monika Freyman! Monika recently won an NSF Graduate Fellowship. She is the *second* Loyola Biology student to receive this esteemed award. We are very proud of her! We'll learn more about Monika's Fellowship in our next newsletter.



Kathi Jo and Monika at Cheboygan Marsh.

Nature Conservancy Awards

Hats off to graduate students Monika Freyman and Kathi Jo Jankowski, who each received \$5K from the Nature Conservancy for the research they will be conducting on invasive species and the nitrogen cycle in the Cheboygan Marsh at UMBS this summer. These were competitive grant proposals that they wrote last semester. Following is their abstract.

Grateful to get TNC grant for summer research....

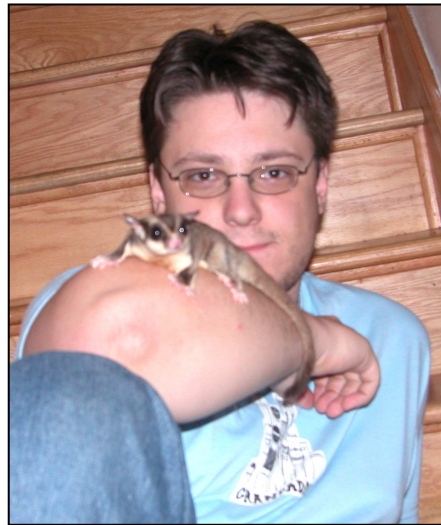
By Kathi Jo Jankowski
and Monika Freyman

Many Great Lakes wetlands are now becoming dominated by eight invasive plant species growing in large monotypic stands. These invasives are now threatening over 330 sensitive native plant species and the overall diversity of native wetland plant communities in the Great Lakes Basin. One of the more aggressive species is a cattail called *Typha x glauca* (hybrid between the exotic *Typha angustifolia* from Europe and native *Typha latifolia*). There is evidence that suggests this plant alters its local environment to out-compete. To this end, Kathi Jo and Monika's research will attempt to narrow down the means through which *Typha x glauca* does this. Kathi Jo's research will concentrate on the biogeochemical cycling of the soil with a specific focus on the nitrogen cycle and on the denitrification process. Monika's research will narrow-in on the role of *Typha x glauca's* senescing leaf material.

Of Interest: Sugar Gliders



Sugar Gliders, *Petaurus breviceps*, belong to a group of animals called phalangers which means "fingery one". These marsupials are normally found in Australia and Indonesia. Undergraduate student Andrej Spec, recognized as one of the region's sugar glider specialists, shared pictures of his playful pets.



If you would like to display some of your artwork (art, writings, etc.) or have a topic of interest, please submit to us via e-mail at biology@luc.edu.

Future Scientists

Dr. Louis Lucas recently coordinated a morning tour for Loyola's preschool Explorers Class, where they learned about microscopes. Beverly Donovan, the preschool's director, remarked it was one of the "best tours". Plans are underway for a June visit.



Joe Schlupe and the giant microscope.



Impromptu visit to Dr. Lucas' office. Preschoolers waving to their own computer image.



Dr. Louis Lucas explaining computer image of his cheek cell, taken from swab.



All eyes on Marc Wezowski, graduate student, as he exits the "magic room" (imaging suite's dark room).

TALK

Announcements & Birthday Greetings!

It's A Boy!

Congratulations to graduate student Anna Taber on the recent birth of her son, Johnny. Beautiful mother and handsome baby are doing well!



Anna Taber's son, Johnny.

Happy, Happy Birthday to you!

Happy, happy birthday to our May and June Celebrants: Sally Fell, Pamela Geddes, Diane Suter, Jeff Doering, and Al Rotermund!

We Couldn't Have Done It Without You!

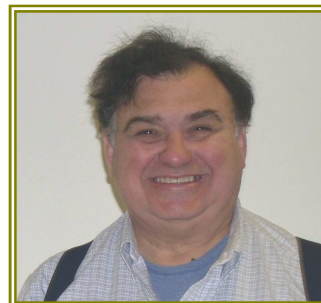
Special thanks to Pat Duffie, Barbara Haas, Bill Kroll, and Warren Jones for their help at the 2005 Spring Open House for prospective students.

Profiles: A Conversation with Jan Savitz

Faculty member Jan Savitz celebrates 35 years at Loyola this year. He sat down with us to talk about his experience here and a folk song you may have heard back in the 70's...

Tell us a little about your background pre-Loyola.

Well, I grew up in Southeastern Pennsylvania, Bucks County. I went to school at Pennridge High School, the football powerhouse and played football for that team. I went on to Penn State where I majored in Zoology (they didn't have Biology in those days, so Zoology was what I did). I went to graduate school at Indiana State and I worked with the well-known ecologist Shelby Gerking. When I got out, it was during the height of the Vietnam War and I took a job at a small, liberal arts school, Rockford College. I stayed there for about two years, then I got hired by Loyola to be an ecologist. There were two of us, two ecologists, on staff at that time. Between Undergraduate and Graduate school, I also did work at the University of Maryland's Solomon Island research station, on Chesapeake Bay. Also a bit at Southern Illinois, another summer research project.



What were your early years at Loyola like?

I began as assistant professor, specializing in general biology, ecology, and limnology, and progressed to associate professor. I served as acting chairman of the department from 1978-81, during a time of real transition. Upon my return to teaching, I began to conduct a lot of field experiments in Lake Michigan, which presented countless opportunities. So, eventually I decided to switch from physiology ecology to field studies.

What is the best thing about Loyola?

I would say that there are very few places in the world with a gigantic lake outside their window. It's a very unique feature to this campus and to the University. It would be great to develop a biological research station out on the Lake. Another thing is the camaraderie of the Biology faculty. They're a very good group of teachers who genuinely want to do research, despite sometimes tremendous teaching loads. You could always get a great discussion going about research. And the student body we have here is actually pretty good.

My four children all attended Loyola. My eldest son was a national merit scholarship winner and received a number of scholarship offers. I convinced him to attend Loyola. Very soon after he began, he told me that this was the best place of study for him. He went on to receive an MFA in creative writing at the University of Iowa and is now pursuing a PhD at University of Chicago. My eldest daughter graduated with degrees in Spanish and Theatre; she now teaches Spanish in the Chicago Public Schools and will begin graduate studies this summer in education at Northeastern Illinois State University. This past December, my second daughter graduated in sociology and is planning to travel along the east coast. My youngest son will graduate this May in degrees in computer science and mathematics; he is currently working part-time in a software company and has been offered a full-time position beginning in June. I'm very proud of my kids.

Do you have some favorite memories from the past 35 years?

Let's see...well, I think almost all of them were related to projects I was working on. Also the students. In general, getting them interested in Lake Ecology, getting them to realize it was important. Those have always been my favorite memories. And when we got our first big grant. That was fun too.

Do you have a most embarrassing moment from the past 35 years?

The most embarrassing moment for me, I'd have to say, was when we were doing Scuba diving on Wilmette Reef. The waves got really rough and I actually got seasick. They had to hoist me into the boat like a beached whale.

You recently led an Ecology class trip down to Key Largo. What is the dream trip you'd like to set up for the students?

I'd like to take them to the Great Barrier Reef, off Australia. It's the largest reef in the world and there are just so many things they could learn. Another trip I would like to do, and this one I'd probably have convince the students, would be to the Arctic Ocean, probably out of Siberia. I'd love to go to New Zealand. *That's* an interesting place.

What is the one thing that keeps you teaching?

I'd have to say there isn't one thing; there are two. Students are certainly a part of it. In some students, particularly the upper level classes, you really get to see that they have a genuine potential to make an impact on ecology. Whether they choose to act on that, you can't control. Some go on to other areas, but it's always exciting to see that potential and to work with them. The other thing is that you always get to learn new things. There aren't too many jobs where you get to do that. I think learning is fun and I try to convey that in my classes.

What are you looking forward to in the next 35 years?

I'd like to stay at Loyola as long as I can teach. Eventually, I think I'll retire into the sunset, off fishing some place. The Keys, maybe, or Montana. Some wild place.

Tell us one thing about Jan Savitz that no one knows.

Well, I used to play guitar for awhile - for recreational purposes. I was in a song-writing class at the Old Town School of Folk Music in the early 70's. It was taught by a then-famous folk singer, Bob Gibson. It was about a six-week class and at the end we got to present our songs on the radio. It was on the Studs Terkl Show. They taped it and it got replayed several times in 1975. I heard my song once on the radio while I was driving to Northwestern, where I was teaching part-time at the time. Also, my ancestors settled in southeastern PA in approx 1727. Two sons of our patriarch served in Revolutionary War. One was killed in New York, now Long Island; the other captured John Frey, the rebel. My parents later purchased John Frey's house.

Any words for our alumni?

They may not realize what an important impact Loyola has had on their lives and the way it's impacting a lot of people's lives today. I still give to *my alma maters* because of this and because I have so many good memories.

Submission Guidelines

- The Newsletter will be used to promote and be devoted to covering the many Departmental activities, seminars and events, initiatives and developments; faculty, student, and staff awards. Creative works by our Department members, announcements, and Profiles will also be covered.
- **The Newsletter is circulated within the Department and will be made available on the internet via the Biology web site. Our goal is to publish online on a bi-monthly basis throughout the year.**
- Authors/contributors should keep in mind that readers may not specialize in their area particular of work.
- Articles vary in length between about 50 and 600 words.
- We welcome photographs and images to accompany articles; please provide captions when submitting the photographs/images. Either hard copy or digital format of the images is acceptable.
- Articles may be submitted by any method, however, the preferred transmittal is electronic format via e-mail.

Questions? Contact Us

Should you have any questions, please do not hesitate to contact us at biologydept@luc.edu.

The Department of Biology Newsletter is prepared and edited by Audrey Berry, Nancy McVittie, Elaine Lehman and Jeff Doering.

Hard copies of articles, images, etc. may be forwarded to us at LSC, LSB, Rm. 317, Attn: Nancy McVittie.

**Submittal Deadline
for Newsletter No. 3:**

Friday, 06/24/05

E-mail: biologydept@luc.edu