

Biology

Alumni Newsletter

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College of Arts & Sciences Alumni Association

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Build it, and they will come

For the first time in 41 years, a building devoted entirely to scientific research will be erected on the IU Bloomington campus. The last building so designated was the Geology Building. This time, it will be a multidisciplinary facility.

Antiquated campus facilities and cramped quarters have been a frustration to the science departments in the College of Arts & Sciences. It has also been more difficult for the College to attract new scientists and students. An academic enhancement plan created by Dean Kumble R. Subbaswamy neatly summed up the problem, "Space is the most significant impediment to innovation and quality improvement in the College."

To counteract this problem, the IU board of trustees approved plans to construct a Multidisciplinary Science Building with 80,000-square feet of usable space. The new facility, to be built on the north side of Myers Hall, will be situated near the biology and chemistry buildings. Construction begins this year, and the facility is targeted for completion in 2006. The building will provide desperately needed research space for biology, chemistry, physics, and other sciences.

The \$55.7million building will be designed in modular units that can easily be changed to adapt to the requirements of various research projects. Having scientists share space tailor-made for their



Brittany Boiss / Indiana Daily Student

New biology chair Beth Raff stands outside Myers Hall, where her lab is located. She, along with others in the IU science community, looks forward to the completion of the MSB.

needs, along with state-of-the-art equipment, ensures the efficient and economical use of resources.

The MSB will house various science programs, including the Proteomics Center, the Center for Genomics and Bioinformatics, the Gill Center for Biomolecular Science, the Interdisciplinary Biochemistry Program, and biophysics. The creation of this building has the potential to facilitate breakthroughs in the biomedical

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Renderings by FLAD & Associates and Anderson Illustration

The College of Arts & Sciences will build its own Field of Dreams, the new, 80,000-square-foot Multidisciplinary Science Building.

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Build it

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and life sciences fields. The College has plans under way to develop a demanding biotechnology program to train highly skilled science students, as well as business and law associates, to work in biotechnology industries.

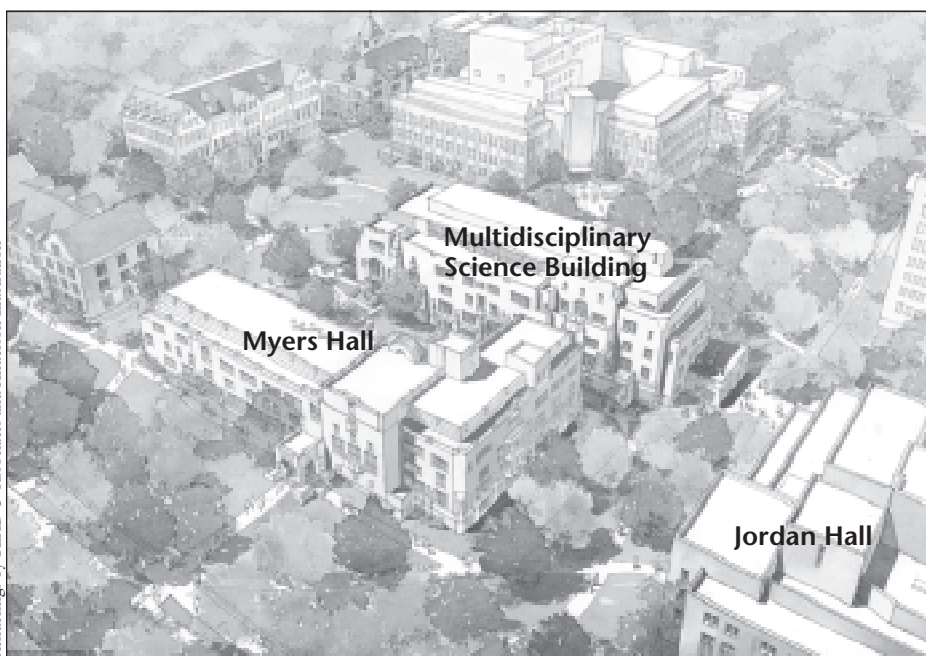
The state allocated \$30 million toward this project. The IU Foundation and the College will raise the remainder of the funds from private donations and grants. Thus far, \$20.45 million in private funding has been located. The Lilly Endowment generously contributed \$10 million to the project. Additionally, longtime departmental friends **Dick** and **Ruth Johnson** kindly donated \$1 million to establish the Johnson Center for Science and Entrepreneurship, which will be housed in the building. Several years ago, the Johnsons lent us numerous paintings that Brown County artist William H. Zimmerman had created for the book *The Birds of Indiana*. These beautiful works of art can be found displayed near the Jordan Hall atrium.

The MSB design, an Art Modern version of Collegiate Gothic, was carefully planned by the architectural firm of FLAD & Associates, who worked diligently to preserve the beauty of the central campus. Any trees lost to construction will be replaced, and the building will complement the newly refurbished Myers Hall (see page 5 for photographs of the renovation project). At least one level is to be built underground to ensure that the MSB will not be taller than Myers. Outdoor spaces and courtyards were included in the plans to enhance the area. Little balconies and walkouts will also add charm. The building will complement the other structures in the area. IU project architect Rich Thompson calls the MSB “a great building and a very fun project.” He adds, “It’s not often in this day and age that one gets to design an Art Modern structure.”

It is estimated that within one year of completion, the MSB will be at full capacity. Thus, second and third phases of this project are planned to add even more science space on campus. These facilities will be built north of Tenth Street near the Geology Building. The IU board of trustees approved Phase II of this project on Sept. 26. The \$42.5-million building will expand research in atmospheric science, neuroscience and brain imaging, containment chemistry, and biogeochemistry.

Future issues of this newsletter will report on MSB-I project developments and will feature several of the programs that will occupy the new building.

Renderings by FLAD & Associates and Anderson Illustration



Phase I of the Multidisciplinary Science Building will complement the style and size of its neighbor, Myers Hall. Phase II will be built on the north side of the Bloomington campus.

“The exponential growth of scientific knowledge has had two dominant and interlinked effects. It has forced researchers to become ever more specialized, and ... forced those in specialized areas to collaborate with increasing frequency and with increasing numbers of diverse scientists.

“What formerly was an exceptional activity is now a common occurrence: Research projects bring together teams of scientists from different fields to focus on problems that as individuals they could not hope to solve, or even to understand. ... How we choose to nurture these efforts will have a lasting impact on IUB and will be a crucial factor for our efforts to be an outstanding research institution.”

*— Kumble R. Subbaswamy
Dean, College of Arts & Sciences*

See more MSB-I project details at these Web sites

- *Multidisciplinary Science Building:* www.indiana.edu/~college/msb
- *Gill Center for Biomolecular Science:* www.college.indiana.edu/dean/gill.shtml
- *Center for Genomics and Bioinformatics:* <http://cgb.indiana.edu>
- *Proteomics Center:* www.chem.indiana.edu/facilities/proteomics/PRDFhomepage.htm
- *Interdisciplinary Biochemistry Program:* www.indiana.edu/~bchem

New lecture series honors Carlos Miller

Professor **Mark Estelle** has announced the creation of a new lecture series in the Department of Biology. The first **Carlos Miller Lecture in Plant Molecular Biology** will take place on April 15. Detlef Weigel, who directs the newly created Department of Molecular Biology at Germany's Max Planck Institute for Developmental Biology, will give the inaugural Miller symposium.

Weigel's research focuses on the mechanisms governing flower development. He has earned the National Science Foundation's Young Investigator Award and the Charles Albert Shull Award of the American Society of Plant Biologists. Weigel is also an associate professor of plant biology at the Salk Institute for Biological Studies.

The Miller lectures honor Professor Emeritus **Carlos Miller**, a member of our faculty for 46 years, who has an abiding interest in the mechanisms of plant growth and development. He joined IU from the University of Wisconsin, where he was a postdoctoral fellow working in the laboratory of noted biologist Folke Skoog. It was there that Miller isolated kinetin, a key hormone that influences plant growth and development. The Wisconsin laboratory was the first to show the diversity of kinetin's effects and its interaction with auxin, another important plant hormone.

In 1999, Miller established the Carlos O. Miller Chair in Plant Growth and Development to help strengthen IU's efforts to build a group with research emphasis on the biochemistry of plant growth and development. Miller thinks the field will assume an increasing importance in agriculture as the world population rises. He says of his decision to make this gift:

"Our educational institutions, with their great capabilities to make life so very interesting, exist because of the dedication, efforts, and financial support (taxes and gifts) of very many people. I was happy to join all those who have helped to build Indiana University. IU has given me much, and I take joy in helping a bit to make it an even finer institution."

Because of the Miller Chair, the department was able to bring Mark Estelle back to IU. Estelle, a talented researcher and dynamic teacher, had been a valued part of our faculty until 1999, when the University of Texas offered him a professorship in molecular genetics. Although we wanted to keep him at IU, the university had no equivalent opportunity available, and Estelle accepted their offer. While at UT, he

was part of a research team that discovered how auxin regulates the growth and development of plants by promoting the degradation of repressor proteins.

Upon learning of the Miller Chair, Estelle applied for the position, was unanimously offered the job, and returned to IU in 2002. He is glad to be back, saying, "Although I enjoyed many aspects of [the] Texas experience, I missed the atmosphere of the [IU] biology department very much."

Estelle's laboratory is at an exciting stage in their research. He says the lab is now working to "identify the proteins that interact directly with auxin and that function in early auxin signaling. In addition, our previous work has provided the reagents (new mutants) that allow us to examine the role of auxin in diverse aspects of plant growth and development."

The Miller Chair has provided many opportunities for Estelle and his research team. Postdoctoral fellows and graduate students get travel funds for scientific meetings, and the money supports Estelle's technician. Best of all, he now can finance riskier experiments that he wouldn't have attempted if funds were more limited. For instance, Miller funds enabled the Estelle lab to perform transcriptional profiling experiments in collaboration with the Center for Medical Genomics at the IU School of Medicine.

Estelle is grateful for the opportunities afforded him thanks to his benefactor and appreciates Miller's commitment to both the department and to plant biology:

"Obviously the Miller Endowment has had a major impact on plant biology at IU, but Carlos's influence goes well beyond this. He comes to the lab every day to do research. ... He is an inspiration to faculty (including me), students, and postdocs. In addition, he is an absolute gentleman.



Mark Estelle, right, finds inspiration in Carlos Miller, who still comes to the lab daily to perform research.



Photo, circa late 1920s, courtesy of Carlos Miller

Carlos Miller, right, grew up in Jackson, Ohio, the oldest of seven children. Seen here with his brother, Gerald, Miller always looked out for his siblings. He exhibits the same care and concern for his biology "family" as for his biological one.

Carlos is unique in another respect. There are lots of endowed chairs around the world, but I bet that Carlos is the only benefactor to be working day to day next door to the chair holder."

Miller, who retired in the late 1980s, continues his research here in the department. His work now focuses almost entirely on the biochemistry of flowering plants, using *Lindenbergia muraria* as a test plant, thanks to a serendipitous twist of fate. This yellow-flowered herb, with rather beautiful reddish-purple spots, is not indigenous to the Western hemisphere; it is more commonly found in regions such as eastern Africa and southern and southeastern Asia. Surprisingly, Miller found the plant growing in one of his flower pots in the department's greenhouse. Intrigued, he decided to use the interloper in his studies.

When Miller turned 80, the department held a reception in his honor and presented him with a color scanner. If he is not here working, he can be found at home, often restoring and making copies of old, treasured photographs to share with family members.

For more information on the first Carlos Miller Lecture in Plant Molecular Biology, call the Estelle lab at (812) 856-1216, or consult the departmental Web site at www.bio.indiana.edu/events.

Celebrating four decades of molecular biology

When Lawrence Blatt, BS'83, signed up for Professor Milton Taylor's two undergraduate virology courses, he had no idea that this was the start of a 20-year professional relationship. Taylor's lectures discussed the most current scientific topics, and the laboratory taught cutting-edge techniques. These classes inspired Blatt to enroll in the department's independent research program under the tutelage of Taylor and Associate Professor Stefan Surzycki.

After graduation, Blatt earned a master's in business administration at California State University at Northridge and a PhD in public health administration at the University of LaVerne. He spent 10 years at Amgen, rising through the ranks to direct their International Consensus Interferon Team; was vice president of product development at the National Genetics Institute; held another vice presidency, this time in research, at Ribozyme Pharmaceuticals Inc.; and now serves as InterMune's vice president of biopharmacology research. Blatt also holds adjunct professorships at the Scripps Clinic, La Jolla, Calif., and at Huntington Memorial Hospital, Pasadena, Calif.

Taylor recalls encountering his former student in the early 1990s at an interferon meeting in Florence, Italy. It was there that Blatt proposed collaborating on a project, thereby beginning a new phase in their scientific relationship.

The two now work on the synergistic effects of interferon on virus replication and the study of gene expression using microarray technology. Taylor says of his former student and colleague, "Larry is a wonderful person — very hard working and honest. He [rose] through the ranks of biotechnology companies through hard work and great management skills."

One might expect to hear that he is about to retire, but Taylor says he's having too much fun to consider retirement. Just last year, his was one of four ancillary labs selected to take part in a clinical trial funded by the National Institutes of Health.

Taylor explains, "We are working on a large clinical project, analyzing the differences in response to interferon treatment in hepatitis C patients of African-American and Caucasian descent. We are also studying the response to interferon treatment at the genetic level by analyzing the total number of genes up-regulated or down-regulated by

*"I'm having too much fun to retire."
— Professor Milton Taylor*

Join us for the symposium

A symposium celebrating four decades of molecular biology is planned for the weekend of May 28, to honor Professor Milton W. Taylor. His former students, colleagues, and friends are invited.

Several researchers affiliated with Professor Taylor will give scientific talks and the first Taylor Fellowship will be awarded. Mrs. Taylor is busily planning the dinner menu and may well be convinced to provide drawings for the program. In short, this promises to be a special weekend for all concerned.

Check out the symposium Web site at www.bio.indiana.edu/~mwtaylor, or call (800) 933-9330 for details. Make your travel plans early — it's a holiday weekend!

interferon. This turns out to be close to 1,000 genes."

The large amounts of data requiring analysis for this project would be daunting, were it not for statisticians and bioinformaticists at the Indiana Genomics Initiative.

Blatt felt it fitting to honor his mentor's career accomplishments and approached the university about establishing a fellowship. He encouraged several corporations, including Amgen, Lilly Research Laboratories, Ribozyme Pharmaceuticals, and InterMune Inc. to support the Milton Taylor Fellowship in Virology. Blatt, Professor C. Cheng Kao (formerly at IU biology), and Juan D. Alfonzo, BS'85, PhD'95, also sought funds from Taylor's former students. Their goal is to raise \$500,000 for the endowment, which will support both graduate and undergraduate students.

Online contributions can be made to the Taylor Fellowship via a link on the symposium Web site at www.bio.indiana.edu/~mwtaylor. For further information, contact Kathy Wyss, development officer for biology, at (812) 855-6195.



Steve Weir/IU Photographic Services

"In celebration and in honor of Dr. Taylor's distinguished career," says Larry Blatt, left, who was mentored by Taylor, "I have happily taken on the responsibility of creating an endowment that ... will provide funding for students studying virology at Indiana University."

Myers Hall photo album



Sonya L. Rivard

Myers Hall was built in the late 1930s to house the Medical Sciences Program. Once renovations began on the building, medical sciences moved to specially designed quarters in Jordan Hall.

Myers Hall's renovations included making the building more accessible.



Sonya L. Rivard



Sonya L. Rivard

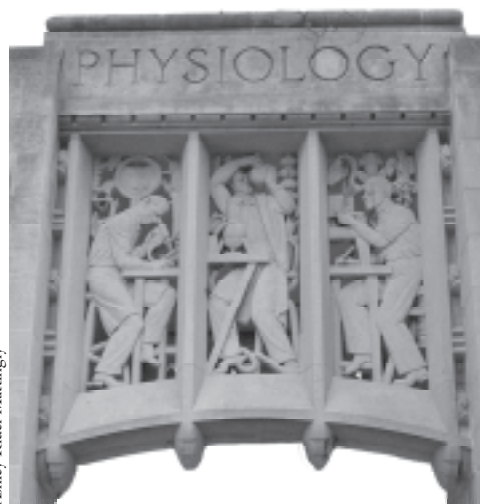
State-of-the-art research laboratories were created in Myers for the use of the Indiana Molecular Biology Institute. Office space was decreased to expand research areas, enabling up to 15 groups to use the modern facilities and share expensive tools for DNA sequencing, advanced microscopy, plant genetics, tissue culture, and X-ray crystallography.



Sonya L. Rivard

Listening to remarks made by Dean Kumble R. Subbaswamy at the Myers Hall rededication are, from left, then-Chancellor Sharon Stephens Brehm, Distinguished Professor **Rudolf Raff**, and Distinguished Professor **Jeffrey Palmer**. Palmer also spoke and thanked Raff for his Herculean efforts to bring about the transformation of Myers Hall. Other university dignitaries in attendance included former President Myles Brand, then-Vice President for Research and Dean of the Graduate School George Walker, and IU trustee Frederick F. Eichhorn. Indiana State Representative Peggy Welch was also in the audience.

Until recently, Myers Hall stood empty for nearly two years while its interior was gutted and reconfigured to create space for the Indiana Molecular Biology Institute. Established in 1983 to foster high-quality research for scientists using molecular biology tools, the institute is directed by Distinguished Professor **Rudolf Raff**, who spearheaded the drive to renovate the building for institute fellows. A ceremony was held to rededicate the building, which is now home to faculty and graduate students from a variety of disciplines, including biology, chemistry, anthropology, and medical sciences.



Ashley Rider Mattingly

Myers Hall was built with an art deco façade and limestone friezes of scientists. It makes a striking addition to the Bloomington campus and is listed on the National Register of Historic Places.

Kudos! Well Done! Bravo!

Carl Bauer, the Clyde Culbertson Professor of Biology, along with geology Professor Lisa Pratt and chemistry Professor Don Burke, received a \$1 million Interdisciplinary Science Award from the David and Lucile Packard Foundation last year. The three are studying microbes in highly alkaline lakes located in Oregon. These bodies of water are thought to mimic Earth's environmental conditions four to five billion years ago. The conditions there are so harsh that few organisms survive. They study these surviving organisms in an attempt to discover what early bacteria may have been like. This five-year grant is the first of its type to be awarded to IU.

Assistant Professor **James Bever** was a recipient of the 2002–03 Outstanding Junior Faculty Award. Bestowed by IU's Office of Academic Affairs and Dean of the Faculties, these awards help promising, untenured, tenure-track faculty enhance their research programs.

If you missed Professor **Edmund D. "Butch" Brodie III's** appearance with his father, a Utah State University researcher, on the PBS series *Evolution*, you can still see the video clip online. The segment, titled "Evolutionary Arms Race," details their research. Be sure to check it out at www.pbs.org/wgbh/evolution/library/01/3/1_013_07.html.

Ticked off

Those who enjoy the outdoors will appreciate the work being done by five scientists. Department of Biology faculty members received funding to study the epidemiology of diseases caused by ticks. Professors

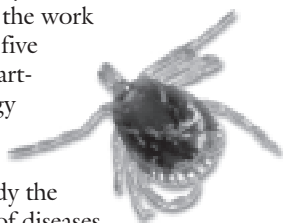


Image courtesy of Professor Keith Clay

Keith Clay, Curt Lively, and Michael Wade, along with Assistant Professor **Clay Fuqua**, joined forces with Ball State University scientist Robert Pinger on this project, which received \$1.88 million from the National Science Foundation and the National Institutes of Health. They want to understand how pathogenic and nonpathogenic microorganisms interact inside tick bodies. These parasites carry a variety of diseases, including Rocky Mountain spotted fever and Lyme disease. By learning how harmless microbes edge out pathogenic ones, the scientists hope to decrease the number of tick-borne illnesses spread to animals and humans.

Indiana is lucky when it comes to ticks. Only 32 cases of tick-borne illnesses were reported in the state during 2000, while there are more than 15,000 cases of Lyme disease alone occurring annually in the United States.

Nature preserve grows

Professor **Keith Clay** directs IU's new Research and Teaching Preserve System, which includes three sites. Griffy Woods, a 185-acre site north of the Bloomington campus, and Moore's Creek, 261 acres adjoining Lake Monroe in southern Monroe County, are part of the original preserve. Recently, the IU board of trustees voted to add the Lilly-Dickey Woods to the research and teaching preserve. This 550-acre property is located in Brown County. The Lilly pharmaceutical family donated the acreage to the university in 1942, with the understanding that it would be used for botanical research and art studies.

The Griffy site is the most accessible and will focus on undergraduate education, student research, and public education. The addition of Lilly-Dickey Woods will enable the creation of new educational programs, provide opportunities for extramural funding, and facilitate Interdisciplinary Environmental Science Programs. Faculty and graduate student research will be conducted primarily at Moore's Creek.



Courtesy of Kay Yatskevich, BS'86, *Field Guide to Indiana Wildflowers*, IU Press, 2000

Trillium grandiflorum is a native Indiana species found in IU's nature preserves.

Take a walk on the wild side

Several tours of the Research and Teaching Preserve System have been offered to all age ranges. The Kid City summer camp came for a nature walk, as did alumni participating in IU's Mini University. The children from Hilltop Garden's Youth Program visited Griffy for a tour and to pick up trash there. Local Boy Scouts also came to cut back invasive grapevines.

Keith Clay, director of the preserve, conducts many of the tours. Other biology



© Paul Martens / IU Home Pages

Professor Keith Clay directs IU's Research and Teaching Preserve System. The preserve sites protect green space in the community and provide educational and research opportunities for students and faculty alike.

faculty also lent their expertise to these walks, including **Susan and James Hengeveld** (birds), **Michael Tansey** (fungi), and **Roger Hangarter** (fall colors). Others who graciously agreed to conduct nature walks were Distinguished Professor of English Scott Sanders, who spoke about "rooting ourselves in the land"; Bill Jones, an aquatic ecologist in the School of Public and Environmental Affairs, who gave a tour on the Griffy Creek bottom; freelance photographer Jeff Hammond, who spoke on nature photography; and **Donna "Kay"**

(Hankins) Yatskievych, BA'86, a staff member at the Missouri Botanical Gardens, who led a tour on wildflowers with Clay.

In the fall, several nature walks were conducted in Lilly-Dickey Woods.

See the preserve's Web site at www.indiana.edu/~preserve for information about IU's Research and Teaching Preserve System or to get details on upcoming walks and other events.

Assistant Professor **Greg Demas** was named co-recipient of the 2002 Frank A. Beach Award. A top prize for young investigators, the Beach Award is given by the Society for Behavioral Neuroendocrinology. Demas gave a talk on his research, titled "Energetics of Immunity," at one of the society's meetings.

Distinguished Professor Emeritus **Howard Gest** and Professor **Michael Lynch** were named fellows of the American Academy of Arts and Sciences, which was founded in 1780. An international learned society, its membership is composed of the world's leading scientists, scholars, artists, business people, and public leaders.

'And the weeds come on and on in irrepressible regiments'

While Distinguished Professor Emeritus **Charles Heiser** probably would agree with Carl

Sandburg's view of the inevitability of weeds, he has come to appreciate these pesky garden



interlopers. Heiser, who was honored with the Peter Raven Award by the American Society of Plant Taxonomists for his efforts to make plant classification readily understandable to nonscientists, has published a book on weeds.

Titled *Weeds in My Garden: Observations on Some Misunderstood Plants*, the text is a fun look at 140 weeds found in IU's Botany Experimental Field, including dandelions, pokeberry, and wild carrot. Heiser's book

explores the medicinal, culinary, and ornamental uses of the weeds found there. Radio stations have interviewed Heiser about *Weeds in My Garden*, and several book signings have been held.

The Indiana Molecular Biology Institute, the Department of Biology, and the Medical Sciences Program received \$250,525 from the Research and University Graduate School's Research Investment Fund. The money will provide upgrades to microbial, virus, and tissue culture facilities in Jordan Hall. The funds will also enable the purchase and installation of two multiuser imaging instruments in Myers Hall.

Distinguished Professor **Thomas Kaufman** was recognized for his pioneering work in developmental biology at the 2002 Midwest Developmental Biology Meeting. His 1980 landmark discovery of the Antennapedia Complex cluster of mutations found in *Drosophila melanogaster*, the fruit fly, greatly furthered understanding of body plan development in animals.

Professor **Michael Lynch's** research team received a \$5 million grant from the National Science Foundation. This group is studying the cause and effect of genetic recombination, using *Daphnia*, a genus of water fleas that is often used in genetic research. The five-year grant is part of NSF's Integrative Biological Research Program, which encourages multidisciplinary research. Lynch's team includes scientists from Indiana University Bloomington and other institutions. The IUB researchers include **Curt Lively** and **Miriam Zolan**, both Department of Biology professors; **John Colbourne** and **Justen Andrews**, members of IU's Center for Genomics and Bioinformatics; and Elizabeth Housworth, associate professor of mathematics.

Professor **George Malacinski** was elected a Student Choice Award winner by the IU Student Alumni Association. All IU students are eligible to nominate their favorite professors for this prestigious award. Faculty members are selected based on their enthusiasm for teaching, knowledge of the subject matter, presentation skills, and their rapport with students.



Ashley Rider Mattingly

Carved limestone owls grace Myers Hall, where two new multiuser imaging instruments will be installed, thanks to funding from the IU Research and University Graduate School's Research Investment Fund.

Professor **Craig Nelson** continues his research to improve undergraduate teaching. He has written extensively on teaching and learning, the importance of critical thinking, collaborative learning, and strategies for teaching controversial subjects, such as evolution, to students.

Nelson was the first IU faculty member to be named a Carnegie Scholar; there are now eight IU faculty members so honored. The university has more Carnegie Scholars than any other institution and is considered a model for other U.S. universities and colleges. Nelson and the other Carnegie Scholars serve on the Advisory Council for the Scholarship of Teaching & Learning Program at IU Bloomington. He also chairs a founding fellows committee for the new Mack Center, which is designed to keep SOTL financially sound and to assist in the development of SOTL projects.

Distinguished Professor **Jeffrey Palmer** was recognized by the Institute for Scientific Information. Palmer, considered a world leader in evolutionary genomics, was named one of the top 15 plant and animal researchers worldwide. He was honored at the Federation of American Societies for

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Kudos

(continued from page 7)

Experimental Biology's "Translating the Genome" meeting. The ISI used a new evaluation tool, based on total citations to research papers during the period of 1991 through November 2001, to identify these 15 scientific stars. Many experts feel that such citation data is an important way to measure research performance.

An exciting discovery in the laboratory made Palmer decide not to serve a third term as departmental chair. He, along with three members of his lab, **Ulfar Bergthorsson**, **Keith Adams**, PhD'01, and **Brendan Thomason**, BS'99, discovered that flowering plants sometimes transfer genes to unrelated species. Their research, reported in *Nature*, establishes that conventional genes are subject to horizontal gene transfer during plant evolution. This is the first clear evidence that plants can donate DNA in this manner.

Adams is now a postdoctoral fellow at Iowa State University. Thomason is a graduate student at the University of Michigan Medical School's microbiology and immunology program.

Distinguished Professor **Rudy Raff** was awarded the Medal of Alexander Kowalevsky by the Council of the Saint Petersburg Society of Naturalists. The Russian organization recognized Raff as "one of the most distinguished scientists of the 20th century in the field of comparative zoology and evolutionary embryology." Raff was also promoted to the rank of Distinguished Professor.

Goldwater greats

Biology major **Samantha Herbst** is one of nine undergraduate students from Indiana to be named a Goldwater Scholar for the 2003–04 academic year. Nationally, a total of 300 students were selected to receive this prestigious award from the Barry M. Goldwater Scholarship and Excellence in Education Program. She is the 18th IU student to be so honored since the creation of the scholarship.

Herbst received approximately \$7,500 to apply toward tuition, room, board, fees, and books. She is a member of Professor David Clemmer's research team. Clemmer, who is chair of the chemistry department, indicates that she is a remarkable student, saying, "Students like Samantha are gifts to the university. ... This award is richly deserved, and I'm so pleased to have had the chance to work with her."

Herbst plans to earn a doctorate in molecular biology. Her goal is to become a university professor, researching the molecular biology of infectious diseases. She follows in the footsteps of **David E. Larson**, BS'03, another departmental major who, in 2002, earned a Goldwater Scholarship. He conducted microbiology research in Professor **Yves Brun**'s laboratory.

Both Herbst and Larson also participated in the IU Science, Technology, and Re-



Photo courtesy of Samantha Herbst

Biology major Samantha Herbst is the 18th IU student to receive the Goldwater Scholarship since the award was established in 1986. Samantha, seen here touring Venice, Italy, participated in an Overseas Studies Program at the University of Provence during the 2002–03 academic year.

search Scholars Program, which places students in faculty research laboratories during their first year at IU in order to give them long-term research experience.

The Goldwater Scholarship, established by congressional act, recognizes gifted students in science, math, and engineering. It is designed to encourage top-notch students to pursue careers in these fields. Seven students from the Department of Biology have earned this award since its inception in 1986. In addition to Herbst and Larson, past recipients have included **Megan Sullivan**, BS'00, **Neeraj Surana**, BS'98, **Mark Wortinger**, BS'98, **Eric Levens**, BS'97, and **Denise (Yoder) McKinley**, BS'89.



Ashley Rider-Martingly

Native beauty

"A Prairie in the Planters" graces the entrance to the Jordan Hall atrium, thanks to Jennifer Hanink, a resourceful graduate student from the School of Public and Environmental Affairs. She joined forces with Assistant Professor of Biology **Heather Reynolds**, and other members of IU's Council for Environmental Stewardship, to obtain a Campus Ecology Grant from the National Wildlife Federation. Several planters were naturalized with prairie and woodland species native to the state. The planters were designed to attract birds, butterflies, and wildlife. They also beautify the area, much to the enjoyment of staff and students in the area.

Bloomington's Wild City Initiative, representatives from IU's Campus Division, the landscape architect's office, the Department of Biology, and various student groups worked with Reynolds and Hanink on this project.

In memoriam: Prince Sears Crowell Jr.

Prince Sears Crowell Jr., professor emeritus of zoology, died at the age of 92, on April 11, 2002. He is survived by his wife, Villa Bailey Crowell, and their three children, Persis Ann, Polly Foster, and Prince “Skip” Crowell III.

Crowell earned degrees from Bowdoin College (AB’30) and Harvard (MA’31, PhD’35). He taught briefly at Brooklyn College and spent 12 years at Miami University of Ohio before joining the Indiana University faculty in 1948.

Crowell was a member of the IU faculty for 31 years. An expert on invertebrates, he taught Invertebrate Zoology, as well as Introductory Biology, Embryology, Anatomy, and Ornithology.

Crowell’s fascination with marine biology dated back to childhood courses taken at the Children’s School of Science in Woods Hole, Mass. His interest in the subject deepened during his teen years, which were spent at Woods Hole collecting specimens for the Marine Biological Laboratory.

The MBL continued to play a key role in Crowell’s life throughout his career. His research, which centered on Cnidarians such as hydroids, sea anemones, and jelly fish, was carried out predominantly at MBL. He taught their invertebrate class for several years, first meeting his wife, Villa, when she enrolled in his 1937 summer course. Crowell served on the board of trustees for the Marine Biological Laboratory and was a member of their Executive Committee for two terms.

Crowell was a fellow of the American Association for the Advancement of Science and of the Indiana Academy of Science. His other memberships included the Society of Developmental Biology, the International Society of Developmental Biology, and the American Society of Zoologists, where he was their first program officer and the first managing editor of their journal, *American Zoologist*.

In 1979, the year he retired, Crowell’s former students and colleagues created a scholarship in his honor. The Sears Crowell Scholarship helps support students enrolled in a field program, preferably at a marine lab. Crowell Scholars have attended programs throughout the United States, as well



IU Archives

In addition to his professional accomplishments, Sears Crowell was an avid sailor who enjoyed croquet, billiards, and cards.

“By his example, I learned what is really important in life — not just professional accomplishments, but also integrity, a sense of humor, and the importance of family and other relationships.”

— Charles Wyttbach

as in such diverse places as Grand Cayman, the Virgin Islands, Mexico, South Africa, and Australia.

Physician **Paul Yonover**, BA’93, was a 1991 Crowell Scholarship recipient. He wrote, “Like countless others, my life was greatly affected by Dr. Crowell. I [received] a scholarship ... to support my studies of seagrass beds in the Virgin Islands. ... That summer had an enormous impact on my life, both professionally and personally. It was a time of growth for me, and I hold dear those memories.”

Charles Wyttbach, BA’54, MA’56, an emeritus professor of biology at the University of Kansas, was a key figure in the cre-

ation of the Crowell Scholarship. He was touched that so many former students expressed such high esteem for their beloved mentor by establishing the award. “I know Sears took great satisfaction in the scholarship,” Wyttbach stated, “for he took an active part in selecting the recipients and followed their progress with interest.”

Wyttbach spoke at Crowell’s memorial service at Woods Hole. He credited Crowell with inspiring him to pursue a career in academics. Wyttbach recalled how impressed he was with Crowell’s vast knowledge of biology, adding, “In the day of increasing specialization, he retained an interest in biology in the broadest sense.”

Crowell was a member of the American Civil Liberties Union, belonged to Citizens for Good Government, and was a Rotarian. Thanks to his mother’s influence, he was an avid birder. Together, they studied the displacement of terns by gulls on southern Massachusetts islands. He was active in the Audubon Society and other environmental groups. Crowell was a skilled sailor who raced competitively for more than 60 years, winning with his father two Class National Championships. His love of competition was also seen in billiards, cards, and croquet.

Yonover said, “Dr. Crowell was a man of science and his professional accomplishments reflected his great talents. Perhaps more important, however, was his pursuit of hobbies and interests outside of his line of work. Having such passion is a great example for us all.”

Wyttbach said at the memorial service, “By his example, I learned what is really important in life — not just professional accomplishments, but also integrity, a sense of humor, and the importance of family and other relationships.”

If you would like to make a contribution to the Sears Crowell Scholarship endowment, please contact Kathy Wyss, development officer for biology, at (812) 855-6195 or by e-mail to kwyss@indiana.edu.

Alumni Notebook

Before 1960

Elizabeth Morrison Land, BPSM'44, writes that she and her husband, James F. Land, BS'43, MD'45, are doing well. The couple lives in Madison, Wis.

Although they retired more than a decade ago, **John R. Preer**, PhD'47, and his wife, **Louise B. Preer**, PhD'47, return to their lab every morning in Jordan Hall on the Bloomington campus to continue their research of the genetics of the paramecium organism. They recently celebrated their 60th wedding anniversary and the introduction of a new family member into their home — a 10-week-old puppy. They live in Bloomington.

Bernard K. Weiner, BS'50, MD'53, is still in private practice in San Antonio, specializing in geriatrics. He was recently awarded the Otis R. Bowen Distinguished Leadership Award by the Deans Council of the IU School of Medicine.

Marvin E. Priddy, BS'51, MD'55, is interim director and clinical professor of medicine for the Fort Wayne Medical Education Program. He can be reached at 11238e@prodigy.net.

James A. Benz, BS'52, MD'55/Res'58, received the Israel Davidsohn Award for Distinguished Service at the Pathology Today 2003 American Society for Clinical Pathology meeting. He lives in Carmel, Ind., with his wife, Sonja, and can be reached at jbenzmd@aol.com.

Peter H. Cahn, BA'53, MD'56, a mentor for high school students, is learning to enjoy full retirement. He lives in Indianapolis with his wife, Susan, and can be reached at phcahn@aol.com.

Mary M. Lavgnino, BA'53, MLS'73, of Apollo Beach, Fla. (winter), and Indianapolis (summer), is a retired technical

information specialist for Eli Lilly and Dow Agrosciences.

Gloria D. Randle Scott, BA'59, MA'60, PhD'65, LLD'77, writes, "I retired from the presidency of Bennett College for Women in June 2001 after 14 years, from 1987 to 2001. Immediately prior to that position, I served as executive vice president of Clark College in Atlanta from 1978 to 1987. I am currently a visiting research professor at Jarvis Christian College in Hawkins, Texas, conducting a major Ford Foundation-funded research project on "African-American Women in Academia, 1901–2001: The Appearance versus The Reality." I also operate my 28-year-old consultant firm, G Randle Services, which does leadership development, training, research, and speaking." The Riviera, Texas, resident can be reached at deltagdrs@hotmail.com.

1960s

John E. Pless, BA'60, MD'63, retired as an IU School of Medicine forensic pathologist to spend more time with his wife, Lois J. Pless, BS'86.

Charles M. Clark Jr., BA'60, MD'63, has been named associate dean for continuing medical education at the IU School of Medicine in Indianapolis. He lives in Carmel, Ind.

Leigh W. Richey, BA'67, MAT'68, a donor relations associate with the IU Foundation, was awarded the 2002 Miriam Sturgeon Award for Partnership. She lives in Bloomington and serves on the Bloomington Hospital board of directors.

R. Wyatt Weaver Jr., BA'67, MD'70, was awarded the annual Indiana State Medical Association's Physician Community Service Award for 2003. The family physician lives in Angola, Ind., with his wife, Judy (Mortorff) Weaver, ASRT'69, and can be reached at

Donald L. Burton remembered

Don Burton, BA'59, MA'66, earned two degrees from the IU Department of Biology, both in plant sciences. After a stint as a captain in the Air Force, he served on the faculty at Iowa's Loras College.

In 1977, Burton returned to IU, where he was appointed chief botanical gardener for our department. He was active in the community, serving on the Monroe County Fair board and Hilltop Garden's Educational Foundation board. Burton, himself a master gardener, was an instructor for the Monroe County Master Gardener Association. His additional memberships included the Association of Educational and Research Greenhouse Curators, Sigma Xi, and the National Speleological Society.

Complications from diabetes led to his death, at the age of 66, on July 2, 2002. He is survived by his wife, Doris-Jean, and their daughter, Kathryn J. Moore.

As the most fitting memorial to Burton's long service and dedication to the department, his colleagues chose to dedicate a tall sugar maple just outside Jordan Hall, overlooking the greenhouses he so carefully tended. That fall, just as the leaves were beginning to turn, Burton's family, friends, and coworkers met to place a plaque recognizing his 25 years of dedicated service under the tree. Professor Beth Raff, then biology's acting chair, Doris-Jean Burton, and other friends spoke of Burton, sharing memories of his long association with our department. The size of the group gathered in his memory reflected the many friends and colleagues he had gathered over the years, and the plaque will continue to remind passersby of one of the department's steadfast friends. It's a memorial we think Don Burton would appreciate.



Pete Schreiner, *The Herald-Times*

Don Burton's tours delighted countless visitors to the biology greenhouses. Monroe County schoolchildren particularly enjoyed his tours.

rwwanq@gte.net.

Norman E. Wallis, MA'68, PhD'73, was recently honored with a doctor of ocular science honorary degree by Southern College of Optometry in Memphis, Tenn. He lives in Arlington, Va.

Barbara A. Kays, BA'69, MAT'71, is the assistant director and science specialist for

Milford Mill Child Development Center. She lives in Pikesville, Md.

James E. Mitchell III, BA'69, was named as one of the first four McCann Scholars. The McCann Scholars program is funded by the Joy McCann Foundation and recognizes medical educators for excellence in mentoring. He is a professor

and chair at the University of North Dakota and lives with his wife, Karen (Antrim) Mitchell, BSEd'69, in Fargo, N.D.

1970s

Barry M. Dancis, PhD'70, celebrated the birth of his second grandchild on April 23, 2003. The principal programmer for Base 10 in Trenton, N.J., lives in Abington, Pa., with his wife, Robin, and can be reached at bdancis@comcast.net.

David M. Gring, MA'70, PhD'71, is retiring from Roanoke College in Salem, Va., where he has been president since 1989. He can be reached at gring@roanoke.edu.

Cynthia L. Knight, BA'70, MAT'76, MLS'96, has worked as a reference and collection development librarian at Hunterdon County Library in Flemington, N.J., since 2002. The former academic librarian at IUPUI is a resident of

Milford, N.J., and can be reached at cknight@hclibr.eclipse.net.

Gregory D. Mathew, BA'70, MD'74, of Bloomington, was recently reunited with classmate Richard K. Wampler, MD'74, of Loomis, Calif., while on a cruise to Antarctica. They had not seen each other in 29 years.

Lorin M. Brown, BA'71, was a co-recipient of the Indiana State Medical Association's sixth annual Sports Medicine Team Physician Award for 2003. He is a resident of Munster, Ind.

Thomas A. Cicarella, BA'71, JD'74, was named to the 2003–04 edition of *The Best Lawyers in America*. He is a lawyer in the banking law section at Calfee Halter & Griswold in Cleveland.

Bing M. Fowler, BA'71, DDS'75, has a private dental practice in Wabash, Ind.

Jane C. Krauhs, MA'71, PhD'75, was re-elected treasurer of the American Medical

Writers Association for 2002–03. She is a senior scientist at Wyle Laboratories, Houston.

Charles F. Becker, BA'72, of West Hollywood, Calif., is a speech pathologist with the Los Angeles Unified School District.

Marc A. Maiatico, BA'72, is a health-care consultant in the rehabilitation field. He lives in Haddonfield, N.J., and his son is a sophomore at IU.

Robert B. Stein, BS'73, was appointed president of Roche Palo Alto, a pharmaceutical and diagnostics business. He can be reached at robert.b.stein@dupontpharma.com.

Valerie P. Jackson, BA'74, MD'78/Res'82, was elected president of the American College of Radiology. She is a professor of radiology, the director of the radiology residency program, and chief of the breast radiology section at the IU School of Medicine. Also, she was recently named interim chair of the IU Department of Radiology. She lives in Indianapolis.

Linda E. Cantor, BA'76, JD'79, is practicing in the areas of estate planning and administration with Dann Pecar Newman & Kleiman, Indianapolis. She and her husband Louis B. Cantor, BA'76, MD'80, have three children.

James W. Kayden, BA'77, JD'82, a founding partner of Thomas Kayden Horstemeyer

& Riskey, an intellectual property law firm in Atlanta, was elected president of the Association of Patent Law Firms. He and his wife, Deborah (Verbick) Kayden, BA'78, live in Marietta, Ga.

Elizabeth J. Ridlon, BS'77, and her husband, **Robert W. Ridlon**, BA'78, have finished their third book, titled *Creation or Evolution: Does It Matter?* The book was published by 1st Books, Bloomington, Ind. The Troy, Ill., couple's son, Robert Ridlon III, is a 2001 graduate of IU.

Ricki Lewis, MA'78, PhD'80, is the author of *Human Genetics* (McGraw-Hill, 2002). She lives in Schenectady, N.Y., with her husband, Larry Lewis, PhD'80.

San J. Zapata, ASN'78, BA'83, of Bloomington writes, "I have been a registered nurse for 25 years and recently had a job change that led me to get involved with an organization founded by Dr. Lawrence Dorr of the Arthritis Institute, called Operation Walk." She can be reached at szapata.aol.com

Thomas L. Ortel, BS'79, PhD'83, MD'85, of Chapel Hill, N.C., is an associate professor of medicine in the Division of Hematology and medical director of the Hemostasis and Thrombosis Center at Duke University.

(continued on page 12)

Biology Alumni Newsletter

This newsletter is published by the Indiana University Alumni Association, in cooperation with the Department of Biology and the College of Arts and Sciences Alumni Association, to encourage alumni interest in and support for Indiana University. For activities and membership information, call (800) 824-3044 or send e-mail to iualumni@indiana.edu.

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Alumni notebook

(continued from page 11)

1980s

Gregg A. Dickerson, BA'80, MD'84, a radiation oncologist in Jackson, Miss., has been inducted as a fellow in the American College of Radiology. Affiliated with St. Dominic–Jackson Memorial Hospital, Baptist Health System, and Central Mississippi Medical Center, all in Jackson, he lives in Madison, Miss.

Susan L. Zunt, MS'80, has been appointed chair of the Department of Oral Pathology, Medicine, and Radiology at IUPUI. She lives in Greenwood, Ind.

Mark E. Claerbout, BA'81, is a senior microbiologist for Eli Lilly and Co. He lives in Indianapolis with his wife, Patricia, and their three children, Devin, 18, Adam, 16, and Colin, 13.

Sarah D. McGill, MAT'82, is a teacher at St. Vincent de Paul Catholic School in Bedford, Ind. She and her husband, Joel, live in Brownstown, Ind.

Robert G. Devetski, BA'83, JD'87, is of counsel to the law firm Barnes & Thornburg, based in Elkhart, Ind. He practices insurance law and litigation. He is a member of the Indiana State Bar Association Board of Governors and vice president of the Robert A. Grant Inn of Court in St. Joseph County.

Lisa A. Lear, BA'83, DDS'87, MSD'90, was inducted into the International College of Dentists. A periodontist, she lives in Tucson, Ariz., with her husband, Dick, and can be reached at lisalear@aol.com.

Sherri L. Owens, BA'83, an environmental scientist for the Indiana Department of Environmental Management, writes, "I am very active in my church ... as a Bible study teacher, treasurer/secretary of our sister-



Steve Weir/Photographic Services

Larry Blatt, BS'83, is vice president of biopharmacology for InterMune Inc., Brisbane, Calif. (see page 4).

hood, and church bus driver. I am a landlord of two houses and own my own home. Although I have no children, I have nine godchildren." The Indianapolis resident can be reached at sownens@prodigy.net.

Bill R. Padgett, BA'84, and his wife, Amy M. Padgett, BA'86, live in Olney, Ill., where Bill is an OB-GYN and Amy directs traffic at home with their two children, William and Abigail, and at school doing volunteer work.

Ann T. Lamport-Hammitte, MS'85, of Jamaica Plain, Mass., joined the intellectual property law firm Lowrie Lando & Anastasi, Cambridge, Mass.

Matthew B. Monesmith, BA'85, DD'89, is a self-employed oral and maxillofacial surgeon in Jasper, Ind.

Holly L. Hedrick, BS'87, of Devon, Pa., is a pediatric surgeon at the Children's Hospital of Philadelphia.

Kathy L. Osborn, BA'87, BS'87, JD'99, has been appointed to the Indiana Protection and Advocacy Services Commission. She is an associate with the law firm Baker & Daniels, concentrating her practice in commercial and appellate litigation. She lives in Bloomington.

Jeffrey C. Hatcher, BS'89, of McLeansville, N.C., is an

infectious disease physician at Moses H. Comb Memorial Hospital.

1990s

Alan P. Ladd, BS'90, MD'94, joined the faculty at Riley Hospital for Children as a pediatric surgeon. He lives in Indianapolis with his wife, Tonya A. Ladd, BS'91.

Cregg D. Ashcraft, BS'92, MD'96, a clinical professor of internal medicine, was just named director of the Internal Medicine Faculty Outpatient Clinic at Ohio State University. He lives in Columbus, Ohio.

Michael A. Behforouz, BS'92, MD'96, is an ophthalmologist who recently opened a new practice, Center for Sight, in Carmel, Ind. He and his wife, Mary, have two children, Kayla and Stella. He can be reached at michael@caringforeyes.com.

Kimberly K. Noble, BA'92, is a sports marketer and event manager for Velocity Sports & Entertainment, Wilton, Conn. She can be reached at kimberlyswabsin@optonline.net.

David W. Bollivar, PhD'93, received tenure and was promoted to associate professor at Illinois Wesleyan University in Bloomington, Ill.

Sherri A. Stiles-Walker, BS'93, MD'98, writes, "I joined

my father's medical practice in 2001, after completing a family practice residency at Methodist Hospital in Indianapolis." She and her husband have three sons and live in Fort Wayne, Ind.

Matthew W. Deitchle, BS'94, BS'95, is an information systems support analyst at Steak 'n' Shake's corporate office in Indianapolis. A resident of Carmel, Ind., he can be reached at matthew.deitchle@prodigy.net.

Lindsay V. Fitch-Alexander, BA'94, of Catonsville, Md., married Michael Fitch in May 2002. She hopes to finish her residency in pediatrics in 2004.

Rebecca C. Rastetter, BS'95, writes, "After completing my pediatric residency, including a chief year at Dayton Children's Medical Center, I have joined Loveland Pediatrics as a part-time physician employee. I also had my first child, a son, on June 2, 2003!" She lives in Cincinnati with her husband, Jonathan Puchalski, and can be reached at rrastetter@hotmail.com.

Anne-Marie Flowers, BS'96, married Charles Flowers in May 2002. A resident of Ocean Springs, Miss., she is a manager at the molecular lab at the Gulf Coast Research Lab and can be reached at annemarie.moore@usm.edu.

Jonathan P. Montag, BS'96, is a general dentist practicing in Albany, N.Y. He lives in Guilderland Center, N.Y.

Laura E. North, BS'96, is a full-time physician assistant at Naab Road Surgical Group in Indianapolis.

Kendra L. Smith, BS'96, is a district manager for Pfizer Pharmaceuticals. The Old Greenwich, Conn., resident can be reached at Kendra.l.smith@pfizer.com.

Brian F. Dimitri, BA'97, of Auburn, Maine, is a teacher at Edward Little High School. He and his wife, Liza B. Dimitri, BS'96, recently bought a new home and adopted a new puppy, named Hoosier.

Todd M. Freeberg, PhD'97, of Knoxville, Tenn., writes, "I am now an assistant professor in the Department of Psychology at the University of Tennessee."

Andrea K. Marsh, BA'97, of Indianapolis, joined the law firm Sommer Barnard Ackerson as an associate. A member of the litigation group, she served as assistant professor of legal analysis, research, and communication at the IU School of Law-Indianapolis.

Scott A. Todd, BA'97, is the national accounts manager for Cook Inc., a medical device manufacturing company in Bloomington.

Dennis N. Wolkin, BA'97, and his wife, Elizabeth G. Wolkin, BS'95, celebrated the birth of their first child, Debra Michelle Wolkin, on Nov. 16, 2003. They live in Norcross, Ga., and can be reached at wolkin@aol.com.

Laura J. Hilmert, BS'98, JD'01, is a patent attorney at Senniger Powers Leavitt Roedel in St. Louis.

Brett M. Merritt, AC'98, BA'98, has been attending Harvard Business School in the MBA program.

Heidi B. Renner, BS'98, will be finishing medical school at Loyola this June. She is married to Donald Renner, BA'00, and says they find every

excuse to make the trip to Bloomington to reminisce about their time on campus. They live in Riverside, Ill.

Andrea L. Sparzo, BS'98, has joined the Indianapolis Veterinary Emergency Center. She is a graduate of Purdue's School of Veterinary Medicine. She lives in Indianapolis.

R. Grant Mostak, BS'99, is a second-year medical student at the University of North Carolina. He lives in Cary, N.C.

2000s

Gretchen M. Green, BS'00, is in veterinary school and takes bluegrass fiddle lessons in her free time. She lives in Knoxville, Tenn.

Jill C. Hazel Layton, BS'00, was married to Kevin Layton, BS'00, on Oct. 26, 2002. They live in Franklin, Ind.

Suzannah J. Park, BS'00,

who will graduate from the IU School of Medicine in May, writes, "I have chosen to begin a residency in psychiatry, while my fiancé, Jason Sorg, has chosen physical medicine." She can be reached at suzpark@iupui.edu.

Aaron W. Strickland, BS'00, BS'01, is a student at the IU School of Dentistry and plans to graduate in 2005.

Elizabeth A. Young, BS'00, works as an environmental health specialist at the Tift County Health Department in Tifton, Ga.

Adrian T. Davis, BS'01, of Indianapolis, is working toward a master's degree in biology at Purdue University.

Julie A. Hoffman, BA'01, of Milwaukee, is a regional sales manager for RF Technologies. She is a member of Young Professionals of Milwaukee.

JeNean N. Jones, BA'01,

BS'01, writes, "I am assistant director of a S.C.O.R.E. Educational Center. I will be attending NYU's Graduate School of Science in the fall." She lives in Morristown, N.J.

Anne M. Nichols, BS'01, of Indianapolis, is a case review team leader for Maximus/Option One, Carmel, Ind.

Andrew O'Connor, BA'01, BS'01, a medical student at the IU School of Medicine, was recently married to Megan (Britton) O'Connor, BS'01, in Bloomington. They live in Mooresville, Ind.

Lynda G. Porter, BA'01, of Cherry Hill, N.J., is enrolled at Hahnemann University in Philadelphia. She is working toward a bachelor's degree in nursing.

Brianne H. Ungar, BA'01, is in the master's of social work program at the University of Texas at Austin.

Robert R. Williams, BS'01, is a staffing consultant for On Assignment's Lab Support Division. He lives in Cambridge, Mass.

Valerie A. Zimnawoda, BS'01, is a veterinarian's assistant at Vale Park Animal Hospital in Valparaiso, Ind.

Brooke N. Baker, BS'02, is a first-year student in the developmental studies doctoral program at Purdue University. Her husband, **Matthew S. Baker**, BS'02, is a first-year student at the IU School of Dentistry.

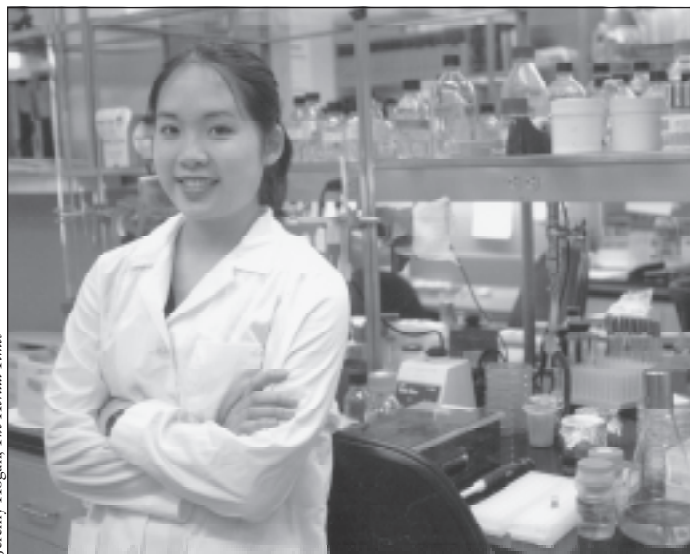
Allison R. Benton, BS'02, AC'02, is a sales analyst and sales representative for Stepan Co., Winnetka, Ill. She lives in Evanston, Ill.

Gregory W. Berman, BS'02, AC'02, is a medical student at the IU School of Medicine and lives in Indianapolis. He can be reached at gberman@hotmail.com

Amy R. Best, BS'02, is studying medicine at the University of Cincinnati. She lives in Olmsted Falls, Ohio, and can be reached at amyrbest@aol.com.

Suzanne E. Bolyard, BS'02, *(continued on page 14)*

Congratulations!



Jeremy Hogan, The Herald-Times

Kathleen Tran, BS'03, graduated with majors in biology, biochemistry, and music. Kathleen was the 14th IU student to be named a Rhodes Scholar. She has the distinction of being the second woman from IU to have earned this award, which provides for two to three years of study at the University of Oxford in England.

Professor **Alan Bender** was one of Tran's mentors. She was inspired by his cell biology course. Bender says that Tran has "a strong conviction to strive for quality in everything she does."

IU's last Rhodes Scholar, **Raju Raval**, BS'01, was also a biology major. Both Tran and Raval plan to attend medical school at the University of Pennsylvania once their studies at Oxford are done.

Alumni notebook

(continued from page 13)

writes, "I am currently attending the IU School of Dentistry in Indianapolis. I will graduate with my DDS in 2006." She can be reached at sbolyard@iupui.edu.

Allyson L. Brinda, BS'02, is an emergency medical technician for Physician's Ambulance in Warrensville Heights, Ohio. A resident of Aurora, Ohio, she writes to say she will earn her MS in physician assistant studies from Philadelphia's DeSales University in 2005.

Lauren D. Brock, BS'02, is a supported-living specialist at Options for Better Living in Bloomington. She can be reached at Bmomlax@yahoo.com.

Alicia K. Castillo, BS'02, is a research assistant at the Methodist Research Institute in Indianapolis.

Jennifer A. Dixon, BS'02, of Fort Wayne, Ind., is enrolled at the IU School of Medicine. She can be reached at jdixon@iupui.edu.

Rachel A. Feigle, BA'02, is the owner of All American Communications and is a Verizon Wireless authorized agent in Peoria, Ill. She says her future plans include opening a dog daycare and deluxe boarding facility in Peoria.

Erin A. Fink, BS'02, is a clinical research assistant at MediSphere Medical Research Center, Evansville, Ind. He can be reached at efink187@hotmail.com.

Cassandra K. Fransen, BS'02, was married to Clint Fransen, BS'02, on Sept. 14, 2002, in Bloomington. Now living in College Park, Md., she writes that she will earn her degree in medical cytotechnology in August.

Scott A. Hamlin, BS'02, is pursuing an MA in exercise science at the University of Florida.

Joanna M. Hayes, BS'02,



Sonya L. Rivard

The Third Street entrance to Jordan Hall, thought by many to be the front of the building, became the back of the facility after an addition in the 1980s. The Jordan Hall atrium, which faces the Chemistry Building in the center of the Bloomington campus, is now considered Jordan's front.

writes to say that she is a research associate for BioServe Biotechnologies, Laurel, Md., and plays softball in her spare time. She lives in Washington, D.C.

Connie Kunelis, BS'02, writes that she will graduate with a DDS from the IU School of Dentistry in 2006.

Janelle L. Maxwell, BS'02, plans to attend medical school in the fall at Midwestern University in Downers Grove, Ill.

Julie A. Moll, BS'02, is a student at the Evansville Center of IU School of Medicine. She writes to say that while her MD is in progress, she enjoys running, working out, reading, and walking her dog, Jake.

Jennifer L. Overton, BS'02, is a medical student in the IU School of Medicine and hopes to obtain her MD by 2006. She lives in Evansville, Ind.

Miral R. Sadaria, BS'02, is a medical student at the IU School of Medicine. She lives in Noblesville, Ind., and can be reached at msadaria@indiana.edu.

Brett S. Satkamp, BS'02, is a medical student at the IU School of Medicine. A resident of Indianapolis, he enjoys playing guitar, backpacking, hiking, and "anything outdoors."

Aaron J. Sauer, BS'02, is in his second year at the IU School of Dentistry. He lives in Indianapolis with his wife, Ambrosia Sauer, BS'02.

Amber E. Schwab, BS'02, serves as quality analyst for Bloomington's Baxter Pharmaceutical Solutions. She lives in Martinsville, Ind.

Jennifer A. Shoemaker, BS'02, is a student in the physician assistant program at Butler University. The Indianapolis resident can be reached at jenshoemaker02@yahoo.com.

Ryan P. Smith, BS'02, is attending medical school at the University of Virginia. The Carrboro, N.C., resident can be reached at rpsmith12@aol.com.

Michael C. Snyder, BA'02, writes to say he just finished his first year at the IU School of Medicine. He lives in India-

napolis and can be reached at mcsnyder@yahoo.com.

David W. Stinchcomb, BS'02, is a game designer for Rockstar San Diego in Carlsbad, Calif. He can be reached at davestinchcomb@yahoo.com.

Nicole K. Weddell, BA'02, BS'02, is a Peace Corps volunteer serving in El Salvador. She can be reached at nikolasa27@aol.com.

Tony S. Wagler, BS'02, writes, "I am currently in my second year in IU's School of Optometry."

Christopher J. Waugh, BS'02, is a staff officer for the U.S. Coast Guard. A resident of Alexandria, Va., he is pursuing an MA in international affairs at Catholic University of America.

Scott J. Zuick, BS'02, ACJSt'02, of Evansville, Ind., is a student at the IU School of Medicine.

What's new with you?

The IU Alumni Association is charged with maintaining records for all IU alumni. Please print as much of the following information as you wish. Its purpose, in addition to providing us with your class note, is to keep IU's alumni records accurate and up to date. To verify and update your information online, visit our online alumni directory at www.alumni.indiana.edu/directory.

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Preferred Name _____

Last name while at IU _____ IU Degree(s)/Yr(s) _____

Soc. Sec. # or Student ID # _____

Home address _____ Phone _____

City _____ State _____ Zip _____

Business title _____ Company/Institution _____

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INDIANA UNIVERSITY ALUMNI ASSOCIATION



It started with a fire. The Indiana University Alumni Association began in 1854, after a mid-night blaze reduced to rubble a struggling young frontier college. That fire galvanized a group of visionary graduates of Indiana University, inspiring them to

create an association that would not only rebuild their beloved campus, but that would also help to build the future of a world-class university.

Today, the Indiana University Alumni Association serves more than 450,000 living graduates around the globe. Along with providing programs that raise

tens of thousands of dollars annually for scholarships, creating commencement ceremonies that make lifelong memories, and welcoming alumni back through Homecoming and a variety of other special events, the IUAA connects alumni to each other, and to their alma mater, through clubs, travel, learning experiences, and many other rewarding opportunities.

Just as important, the IUAA continues to serve IU and its internationally respected mis-

sions of education, research, and service, building IU's reputation for excellence every day, and in every way possible.

The IUAA started with a fire — and, today, it's burning brighter than ever.

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Beth Raff is biology's first woman chair

Biology's **Elizabeth Raff** has no qualms about giving a research symposium, teaching a class, mentoring students in her lab, and defending a grant proposal. As a top-notch scientist who leads a productive research team, these experiences don't faze her.

But, in 1994, when the Joan Wood Lecture Committee asked Raff to be part of a Women's History Month panel, titled "Personal Perspectives: Three Women in Science," she hesitated. Beth was not sure what information her undergraduate audience might find helpful, so she placed a quick call to her daughter, **Amanda**, BS'92. Amanda informed her mom that women undergraduates just want reassurance that they will be able to juggle the demands of career and family. Thanks to her daughter's encouragement, Raff participated on the panel, providing scientific information and explaining the choices she made concerning her personal career path. Raff's talk was a hit, for she is living proof that one can successfully combine career and family.

Beth Raff came to Indiana University in 1972 as a postdoctoral fellow and moved up through the ranks to full professor in 1990. Her research focuses on the control of microtubule function in vivo and uses *Drosophila* as her experimental organism. She also directs the department's graduate program. Her husband, Distinguished Professor **Rudolf Raff**, heads his own research team in the biology department and directs the Indiana Molecular Biology Institute. Daughter Amanda is now a nephrologist at the Albert Einstein College of Medicine in New York. **Aaron**, BA'99, JD'02, their son, also an IU alumnus, is an associate with the Indiana law firm Henderson Daily Withrow & DeVoe. Both are married to other IU graduates, making the Raffs a complete IU family.

When Jeff Palmer, biology chair at the time, took a sabbatical, Raff was named acting chair of the department, a responsibility she handled superbly. Palmer had originally agreed to serve a third term as chair, but decided instead to focus on his research (see page 7 for details). His decision led to a historical first for this department: Beth Raff became the first woman chair. She says, "Jeff Palmer was a wonderful chair. Under his insightful and vigorous leadership, the department grew and flourished. He brought us to a position of robust strength, reflected in the outstanding research and teaching



Photo courtesy of Distinguished Professor Rudolf Raff

The Raff lab — Back, from left: Katie McGerr, summer researcher from Yale; Adrienne Evans, graduate student; Spencer Kruse, undergraduate researcher; Henry Hoyle, senior research associate; Rudi Turner, electron microscopist; and Sarah Strahl, undergraduate researcher. Front, from left: Ke Xu, graduate student; Elizabeth Raff, professor and chair; and Ellen Popodi, assistant scientist.

accomplishments of the biology faculty and students." Raff says her goal as chair is to keep the department on this upward trajectory. While she was acting chair, the department recruited four new outstanding faculty members, and the department has ongoing searches that will add several new faculty this year. She credits the wonderful collegiality and esprit de corps of the entire department — faculty, students, and staff — with making serving as chair a truly rewarding enterprise.