Distinguished Professor and Chair Jeffrey Palmer was elected to the National Academy of Sciences last year. "Palmer is considered by many to be the world leader in evolutionary genomics and has made landmark discoveries in areas as diverse as plant phylogeny and intron evolution," says Loren Rieseberg, who is the Class of 1954 Endowed Professor of Biology.

Membership to the National Academy is one of the highest honors a U.S. scientist can achieve. The academy and its members advise the federal government on science and technology matters.

Rieseberg is not the only Class Professor in the department. Palmer received the Class of 1955 Endowed Professorship last year. This five-year award is designated for faculty in the College of Arts and Sciences. Professor of Biology Rudolf "Rudy" Raff, who directs the Indiana Molecular Biology Institute, was elected to the American Academy of Arts and Sciences. The academy is one of the most prestigious academic organizations in the world. His research spans biological disciplines from paleontology and evolutionary biology to molecular phylogeny and developmental biology. Raff is considered to be the leading world figure in evolutionary developmental biology. His book *The Shape of Life* is one of the key works on the field of evolutionary biology.

Raff joins two other departmental faculty who are also American Academy members. Palmer and Distinguished Professor of Biology Thomas Kaufman were elected to the academy in 1999. Kaufman holds the distinction of being the first in the state to be named a Howard Hughes Medical Institute Investigator, back in 1990. His research focuses on genetic mutations in *Drosophila melanogaster*.

Raff, Palmer, and Kaufman are not the only faculty in the department's history to have been elected to the American Academy. They were preceded by Distinguished Professor Emeritus Frank Putnam, who remains an active presence in the department, and by four deceased faculty members, including Nobel laureate Hermann Muller, Robert W. Briggs, Ralph Cleland, and Tracy W. Sommerson.

Putnam and three other emeritus professors, Charles Heiser, John Preer, and Anthony San Pietro, are members of the National Academy of Sciences. Six deceased (continued on page 12)

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Biology major earns Rhodes Scholarship

When Raju Raval graduated in May, he had an amazing number of accomplishments to his credit. Very few students graduate with four majors, but Raval did, completing requirements in biochemistry, Spanish, and religious studies, in addition to his biology major.

This talented young man came to IU through the Herman B Wells Scholars Program, which provides four-year awards to top-notch students who excel academically and demonstrate leadership potential. Raval was also named an Indiana University Science, Technology, and Research Scholar. The IU STARS Program, as it is called, was founded by former biology faculty member Marc Muskaovich, who now chairs the biology department at Boston College. This program enabled Raval to conduct laboratory research in the Department of Biology, under the tutelage of Professor Milton Taylor over the past four years.

Raval’s mother, Chandrika, who was a physician, died of breast cancer several years ago. Her struggle convinced him to pursue a career in medicine, cancer research, and public health policy.

It was in Taylor’s laboratory that Raval began studying the diagnostics and progression of breast cancer micro-metastases. “Not only did I have a great learning opportunity working in Dr. Taylor’s Lab, I also had the chance to develop close ties and learn from the personal experiences of the others there.” Raval noted. “In addition, the biology courses at IU were excellent, and if you wanted to, you could get to know your professors well and receive help directly.”

In his junior year at IU, Raval received the Harry S Truman Scholarship, another merit-based award granted to students interested in public service careers. His academic achievements also earned him the Payne Scholarship, which is the oldest undergraduate award in biology.

In December of last year, Raval received a prestigious Rhodes Scholarship. He is the 18th student in IU’s history to be named as such. This award will enable Raval to study at the University of Oxford, where he will pursue a doctorate in molecular oncology.

“I hope in some small way that winning the Rhodes Scholarship ... pays back a little bit for all the time, effort, and energy that the wonderful people at this university have [put forth] to help me achieve my goals and dreams,” Raval commented at an IU trustees meeting that he attended in January. It was there that he acknowledged Taylor and expressed gratitude for the opportunity to work in his laboratory.

This summer, Raval is working at the National Cancer Institute, with Dr. Eric Huang, in the Laboratory of Human Carcinogenesis. Raval says, “The lab’s focus is on determining the pathways by which hypoxia (low oxygen tension) affects angiogenesis and thus tumor progression.”

Once he earns his doctorate at Oxford, Raval will return from England to attend medical school, taking one more step in his goal to pursue a career fighting the disease that took his mother’s life. It seems fitting that he earned biology’s Rex Grossman Award in April. This scholarship, created by R. Daniel Grossman, BA73, MD76, is awarded to students who demonstrate the capacity to become caring, competent physicians. There’s no doubt that Raval will live up to these expectations. Those of us in biology expect even greater accomplishments from Raval in the years to come. We wish him every success.

Biology Alumni Newsletter

This newsletter is published annually 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 membership or activities information, call (800) 824-3044, or e-mail iualumni@indiana.edu.

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Department and university remember Jim Holland with new fellowship and lecture series

Jim Holland was a member of biology’s faculty for more than 30 years. During that time, he tirelessly worked to ensure the success of our students. Holland must have written hundreds, if not thousands, of letters of recommendation to graduate and professional schools on behalf of his students. He truly believed that advanced training was crucial to their success.

When Holland died in 1998, the department thought it only fitting to remember him with an award to help the students whom he loved so much. Professor Tom Donahue recalled that the Research and University Graduate School had created a one-time-only minority fellowship in Holland’s name, shortly before his death. The recipient of that award, Liana Bulmer, is currently a graduate student in the Department of Biology.

Donahue proposed turning this one-time award into an endowed fellowship. Thus, the James Holland Graduate Fellowship in Biology was established in perpetuity. The Holland Fellowship supports the training of a first-year PhD student from groups under-represented in the life sciences. An endowment of $600,000 will be required to generate the necessary interest for an annual award. RUGS is committed to helping biology fund the first few years of the fellowship. Antino Allen will be the next recipient of the Holland Fellowship.

The university also wished to recognize Holland’s contribution to this institution and did so by establishing the James P. Holland Memorial Lecture Series. The lecture is sponsored by the Office of the Vice President for Student Development and Diversity, the Office of Multicultural Affairs, and the Department of Biology.

“Like all great teachers, Jim’s influence will be felt by the students of his students and their students. The Jim Holland Lecture ensures that the campus community will remember him in perpetuity as well,” said then-Vice President for Academic Affairs and Chancellor of the Bloomington campus Kenneth Gros Louis, who stepped down from the helm of the Bloomington campus in May after 21 years of eminent leadership.

The first Holland Memorial Lecture was held last year on Oct. 16. It was there that Holland’s widow, Constance, received the Chancellor’s Medallion, which had been awarded to her husband in November of 1997 at a surprise retirement dinner held in his honor. When presenting this award to James Holland for his “transcendent service to the Bloomington campus,” Gros Louis noted that the actual medallion would be presented once a design had been created and a medal struck.

Holland’s friend and former classmate Homer A. Neal gave the inaugural memorial lecture, titled “Science in the New Millenium.” Neal is the Samuel A. Goudsmit Professor of Physics and the director of the UM-ATLAS Collaboratory Project at the University of Michigan.

In his opening remarks, Neal commented on his friendship with Holland, stating: “Jim Holland was one of my closest friends. We shared many common experiences and dreams … We both attended school here at IU Bloomington at a time when the role of minority students was quite tenuous. We shared dreams of a bright future, but we were keenly aware of the difficult times that our families were having, the sacrifices they were making just to give us a chance, and how easily our dreams could be dashed …” He also took special care to welcome the students in the audience, recalling how Holland’s life had always been centered around his students.

Even though Jim Holland will no longer walk our halls, teach in our classrooms, or conduct research in our laboratories, he will still be remembered through the four programs that bear his name. In addition to the graduate fellowship and memorial lecture series, there is the Jim Holland Summer Enrichment Program that is designed to interest and encourage Indiana minority high school students in science by bringing them to campus for classes and hands-on laboratory experience. Holland led this project from its inception, and it was renamed in his honor last year. Finally, there is the collegewide Holland Teaching Award, created in 1997, to recognize arts and sciences faculty who share Holland’s passion for teaching. These are truly fitting tributes to a remarkable man.

Those wishing to support the James P. Holland Graduate Fellowship in Biology may do so by contacting the Indiana University Foundation.

Join us for the second Holland Lecture

Harvard Professor S. Allen Counter, PhD, DMSc, will present the second James P. Holland Memorial Lecture this fall. A neurophysiologist on staff at Massachusetts General Hospital and Harvard Medical School, Counter also directs the Harvard Foundation, which was established to promote intercultural relations.

His research interests include the neurobiological effects of lead and mercury exposure. This research led him to the ceramics-glazing and gold-mining areas of Ecuador, where villagers, especially the children there, suffer from exposure to high levels of the lead and mercury used in these industries.

In an effort to advance the scientific literacy of children, Counter has traveled throughout the country giving talks to elementary, middle school, and high school audiences. He has also appeared on local and national children’s science shows, such as “3-2-1 Contact.”

(continued on page 5)
Brodie brings vivarium to biology this fall

Edmund “Butch” Brodie III received a National Science Foundation Career Award in 1996 while still on the faculty at the University of Kentucky. A portion of the grant, which recognizes research and education innovation, was allocated to construct what Brodie envisioned to be a small vivarium. This structure would illustrate various aspects of the evolution of behavior, as well as highlight the evolutionary convergence of the color patterns and behavior of reptiles and amphibians.

The size of the vivarium has grown, however, thanks to the support of biology chair Jeff Palmer, who, as Brodie says, “wanted to do this right and really create a showcase in the [Jordan Hall] atrium. The bulk of the funding has actually come from the department ... [which] has been more than generous ....”

The structure is scheduled for completion during the fall semester, at which time Brodie will begin to stock it with plants and animals. An Old World tropical environment will cover one side of the vivarium and will feature Africa and Asia. New World tropics, showcasing Central and South America, will appear on the other side. The two “worlds” will be separated by a thin wall with rivulets running down piles of rocks at both sides. These rivulets will form small pools from which the frogs and lizards can drink.

Each section will contain snakes, native frogs, and lizards, which serve to highlight the convergence of form and behavior in rainforests around the world. “Converge” refers to independent origins of the same features in unrelated taxa,” Brodie says. “For example, we’ll have arrow poison frogs from Central America and mantellid frogs from Madagascar, each of which has bright color patterns and exhibits parental care. We’ll do the same with rainforest plants from the New and Old World to show how similar features have evolved independently.” All of the animals will come from captive breeding projects. Brodie estimates that it will take another year to get all of the animals needed to inhabit the vivarium.

The structure will contain radiant heat panels in the ceiling, louvered vents in the walls, and circulation fans. These will create thermal gradients to enable the animals to select their preferred temperatures. An automated sprinkler system installed with nozzles in various places will provide “rain and mist” at regular intervals.

Brodie, who joined the department in 1997, is interested in how interactions among individuals and species lead to evolutionary diversity. He’s involved with two major projects now. One is a collaboration with his father, Edmund Brodie Jr., who is on the faculty at Utah State University. They study the relationship between toxic newts and garter snakes.

Just one of these toxic newts contains enough poison to kill 20-25 people. Yet there is one species of garter snake that preys on the newts. These snakes are the only predators known to be resistant to the newt’s powerful nerve toxin. The two Brodies study this predator/prey “arms race” to determine what led to this extreme adaptation. They are also trying to determine what genetic and physiological changes led to this resistance in the snakes.

Brodie also examines the interactions between individuals, parents, and offspring. When one individual influences another, such as a mother caring for and provisioning her babies, there is an interaction that allows genes in the mom to influence the traits in her babies. Brodie does mathematical modeling to learn how these indirect genetic effects influence the evolution of behavior.

He also works with one of his students, Anil Agrawal, studying burrower bug mothers who provide their offspring with mint seeds. Without this parental care the babies perish. Brodie and Agrawal performed cross-fostering experiments to investigate how genetics influence parental care behavior. They also examined how differences in parental care influence offspring characteristics. The results of their research appeared in a June issue of Science.

When he isn’t in the lab or settling details of the vivarium, Brodie can be found at home with his wife, Susan. She is a high school English teacher and budding artist who has taken a leave to spend more time with their two children, Eliza and Fisher. They share their home with Mingus and Maisie, two huge Old English mastiffs.
In memoriam: L.S. McClung, 1910-2000

Professor Emeritus Leland "Mac" McClung died on May 9, 2000. He was 89 and is survived by his wife, Ruth. McClung did his undergraduate work at the University of Texas and earned a doctorate from the University of Wisconsin in 1934. His research focused on Clostridia, and he became involved with the microbiology of soil, wounds, and foods.

After graduation, McClung worked in Chicago at the American Can Co., where his experience with the microbiology of food was put to good use. In the 1930s, there was great concern about heating food to a high enough temperature to kill spores without destroying the flavor and structure of the item being canned.

He earned a prestigious Guggenheim Fellowship for 1939-40. This enabled him to study medical bacteriology at Harvard University.

McClung became a member of the IU faculty in 1940. He created the university's bacteriology program, now known as microbiology, with the support of then-President Herman B Wells. McClung administered the bacteriology program for 25 years.

The Italian physician, Salvadore Luria, was the first faculty member McClung hired. The research Luria began in this department eventually earned him a Nobel Prize. One of Luria's graduate students at IU, James Watson, also earned a Nobel Prize.

For many years, McClung ran National Science Foundation summer institutes that trained high school biology teachers. These programs were so successful that NSF asked him to serve as a program consultant in Taiwan and India.

McClung was internationally known for his research with anaerobic bacteria. In 1980, the American Society of Microbiology awarded him an honorary membership in recognition of his many achievements. This recognition has been given to fewer than 120 people in the society's 100-year history.

The Indiana branch of the ASM invited Professor Emeritus Eugene Weinberg to speak of McClung's many accomplishments at their annual spring meeting. They have named one of their student research awards after McClung in recognition of his efforts to promote microbiology education and research.

Cornelius Sterling, who was the first undergraduate to earn a bacteriology degree, established the L.S. McClung Scholarship several years ago to honor his former teacher.

"Mac had a great capacity to relate to his students," recalls Sterling. "He made his lectures and experiments useful and interesting [thanks to] his knowledge and professional experience. We will miss him."

McClung was so touched by Sterling's thoughtfulness that he in turn created the Microbiology Undergraduate Summer Research Award. This scholarship enables students to spend a summer engaged in independent laboratory research under the guidance of a faculty mentor.

McClung took an active interest in these scholarships. He reviewed student applications and made recommendations on potential candidates to the Scholarships Committee. McClung routinely invited recipients to his office to talk about their career plans, and he often purchased student memberships for them in the American Society of Microbiology.

The department deeply feels the loss of this dedicated scientist and devoted teacher.

Those wishing to make memorial contributions, may do so to the L.S. McClung Scholarship or the Microbiology Undergraduate Summer Research Award, in care of the Indiana University Foundation, or to the Friends of ASM Archives Account, in care of the American Society for Microbiology Foundation.

Holland Lecture
(continued from page 3)

Counter spearheaded the efforts to have Matthew Henson, the little-known black explorer who was part of Robert Peary's 1909 polar expedition, moved from a modest cemetery in the Bronx to the Arlington National Cemetery, where he was laid to rest with full honors. Counter's book North Pole Legacy: Black, White, and Eskimo describes his relationship with the Eskimo ancestors of Peary and Henson, while shedding new light on Henson's contributions to the 1909 expedition.

In addition to his television work with children, Counter has produced several film documentaries, including two on the Ecuadorian children suffering from lead and mercury poisoning, one on Henson, and two on African descendants living in the rainforests of Suriname, South America, and Ecuador.

Counter's presentation is tentatively scheduled for Oct. 8, 2001, at 4 p.m. in Jordan Hall A100 in Bloomington. A reception will follow in the Jordan Hall Atrium. To confirm details of the lecture, call (812) 855-9632 or (812) 855-6195, or e-mail kwyss@indiana.edu.
Alumni notebook

Before 1960


Lansing-Penman, Dorothy, BA44 Zoology, MD’47 Medicine. Active member, College of Physicians and Obstetrical Society of Philadelphia and History of Medicine. Recipient, Otto F. Bowen Award ’34 and IU Distinguished Service Award ’93. Spouse, W. Robert Penman, M.D.


Boruff, John, BA53 Biology, MS’65 Health & Safety. Member, Concert Band and Scottish Rite Orchestra in Brazil, Ind. Member, Marching Hundred Alumni Band. Hospital Corpman during Korean Conflict, U.S. Coast Guard. Spouse, Martha, BS’53 Education.

Cobb, Mary Lane, BA50 Zoology. Retired from medical practice after 85 years. Chairperson, Westchester Region NAACP ACT-50. Spouse, James, retired machine designer. Children, Lane, Pamela, and Keith. (Woman’s Medical College, Pa., MD’54.)


Gersden, Robert, BA’50 Zoology. School psychologist turned paleontologist after many years away from the field of geology. Certified vertebrate paleontology volunteer, Anza Borrego Desert State Park, Calif. (PhD’54, Univ. of Cincinnati; MS’66 Univ. of Calif.)

Greene, Samuel, BA50 Zoology, MS’52 Education. Member, Rotary International Board of Directors. Recipient, Service Above Self Award, the Rotary’s highest recognition and The Rotary Foundation’s Citation for Meritorious Service. Spouse, Caki; three children and three grandchildren.

Hartigan, J. Michael, BA59 Zoology. Medical volunteer, Bangladesh, Russia, and Siberia. (MD’68 Medicine, SUNY)


Meisel, Maxwell, BS’57 Biological Sciences, BS’57 Education, MS’61 Education, MAT’73 Earth Sciences. Retired after 40 years teaching biology and geology, Indianapolis. Town Council rep, McCordsville, Ind. Active member, U.S. Coast Guard Auxiliary.

Streets, Bernard, BA55 Biology. Host, "The Circle of Friends" TV and radio talk show.

1960s

Delmer, Deborah, BA63 Bacteriology. President-elect, American Society of Plant Physiologists. (PhD)

Hudson, J.R., BS’62 Dentistry, DDS’65 Dentistry, MS’67 Complete Denture. Practicing in Columbus, Ind.

Marshall, Edwin, BA’68 Zoology, BS’70 Optometry, OD’71 Optometry, MS’79 Physiological Optics. Associate Dean for Academic Affairs, IU School of Optometry. Recipient, 2000 Primary Care Policy Fellow, U.S. Public Health Service.

Norris-Tull, Roger, BS’69 Plant Science, Dean, School of Education, Univ. of Alaska.

Pasternak, John, Ph.D’74 Plant Science. Prof Emeritus, Univ. of Waterloo. Writer, molecular biotechnology and molecular genetics textbooks.

Sawin, John, BS’62 Dentistry, DDS’65 Dentistry. Practicing in Columbus, Ind.

Scott, Darrel, BA69 Zoology, MS’71 Health Admin. Joined Brown & Fortunato, Amarillo, Texas, Spouse, Janice, BS’72 Nursing.

Taylor, Alberto, PhD’67 Plant Science, MA’67 Plant Science. Faculty researcher, Universidad de Panama, Cycad reproduction and ecology, karaithep phytochemistry, and marsileaceae colonization.

Vogel, Judy, BA65 Bacteriology. Retired Manager, Medical pplanes, Eli Lilly & Co.

Wrenn, Robert, BA67 Zoology. President, Aegis Women’s Healthcare, Bloomington. Assistant Clinical Professor, IU School of Medicine.

1970s

Alexander, Jay, BA73 Zoology, MS’72 Recreation. Volunteer Coordinator, Georgia State Parks, 96-current; Chief, Naturalist, Ga. State Parks, 81-95; Director, Stone Valley Outdoor School, 72-79. Spouse, Laurie.

Hillman, David, BA75 Biological Sciences, OD’85 Optometry. Grant Program Manager, Nina Mason Pulliam Charitable Trust. Former Executive Director, Ind. Equal Justice Fund. First Executive Director, Alzheimer’s Association of Central Indiana.

Levine, Martin, DDS, BA72 Biological Sciences. Family Practice Dentistry, Solon, Ohio.


McCormick, Charles, BA72 Biological Sciences, MD’75 and Residency’79 Ophthalmology. Physician/ Ophthalmologist, Indiana Eye
Clinic, Greenwood. Chair, Vision Council of America advisory panel. Spouse, Jane.

Children, Amy and Corky.

Orteli, Thomas, BS ’79
Microbiology, PhD ’83 Biophysics, MD ’85. Assoc. Prof. of Medicine, Duke Univ. Medical Ctr., Hematology. Medical Director, Clinical & Platelet Antibody Labs. Director, Anticoagulation Mgmt. Service.

Palmer, David, BA ’76
Biological Sciences. Recently appointed to National Eye Care Project-Eye Care America committee of the American Academy of Ophthalmology. (MD ’80 U of Illinois)

Schram, Jeffrey, BA ’75
Biological Sciences. Commander omore than eight squadrons (aircraft and shore locations), Carrier Air Wing Reserve 20. Spouse, Andrea.

Scheehan, Kathy, BA ’77
Biological Sciences. Research Associate, Dept. of Microbiology & Thermal Biology Institute, Montana State Univ. NSF Microbial Observatory to study microbes in Nymph Creek, Yellowstone National Park.

Sibbitt, J. William, BA ’78
Biological Sciences. Vice President, Hilliard Lyons Inc., Bloomington.

Sluzbach, Daniel, MA ’79
Biological Sciences, PhD ’79. Zoology. Vice President, Information Resources at Genentech Inc.

Ullom, Beth Marie Payne, BA ’73 Biological Sciences. Project Manager/Geophysicist, Vadose Research, Inc. Spouse, William, BA ’74 Geology.

Wiegman, William, BA ’72

1980s

Blatt, Lawrence, BS ’83
Microbiology, VP, Research, Robozyme Pharmaceuticals Inc., Boulder, Colo. Spouse, Elyse. (PhD ’86, Univ. of LaVerne, Calif; MBA ’86 Cal State Univ, Northridge)

Ebbs, William, BA ’83
Biology, Director of Dentistry, Whitman-Walker Clinic, Washington, D.C. (BA ’83 Sociology; DDS ’87, Howard Univ.)

Hicks, Jennifer, BS ’88

Jones, Mark, BS ’88

Spouse, Kimberly.

McGoff, John, BA ’80
Biology, MD ’84 Medicine. Indiana State Medical Association member working to implement an immunization registry in the state to better address future disease outbreaks.

Osborn, Kathy, BS ’87

Peterson, Daniel, BS ’85
Biological Sciences, MBA ’89 Finance. Promoted in 1999 to VP, Corporate Administration, Cook Inc., Bloomington, Ind. Spouse, Jennifer.

Pope, Kirby, BA ’80
Biology, MD ’84, Psychiatric residency ’88. Skillman Clinical Professor of Child Psychiatry at the Albert Einstein College of Medicine & Mental Health Sciences. Director, Career Training Program in Child & Adolescent Psychiatry.

Romney, William, BA ’83
Biology. Assistant Prof. Southern Utah Univ. Spouse, Judy. (PhD ’89 Binghamton Univ.)

Rumsey, Clifford, BS ’85
Biological Sciences. New Product Development Manager, Ferro Corp.’s polymer additives unit, Cleveland.

Seay, David, BS ’83
Biological Sciences, OD ’87 Optometry. Practicing in Columbus, Ind.

Seay, Robert II, BA ’81
Biology, OD ’85 Optometry. Owner and Director, Zehner Eye Clinic, Evansville, Ind.

Practiced 42 years in Evansville area.

Wasserman, Michael, BS ’87 Biology. Medical practice, Deerfield, Ill. Spouse, Lisa. Children, Allison, 3, and Adam, 1. (MD ’91, Medical College of VA.)

Weinstein, Scott, MS ’86
Microbiology and Immunology. Completing research, Adelaide, South Australia.

Zawistowich, Ludmila, MA ’80 Microbiology. Deputy Director, Medicare Payment Advisory Commission. Former director, Medicare Carrier and Intermediary Mgmt. Group, Center for Beneficiary Services at HCFA. (MS, Health Admin. & PhD Health Policy and Mgmt, Johns Hopkins Univ.)

1990s

Aklinski, Lauren, BS ’99
Biology. Second-year student, Western State Chiropractic College, Portland, Ore.

Alexander, Lindsey, BA ’94
Biology. Pediatric resident, Strong Memorial Hospital, University of Rochester. (MD ’00, Ohio State Univ.)

Allen, Sean, BA ’99

Bard, Nancy, BS ’97
Biology. Medical student, Univ. of Cincinnati.

Bardonner, Cierra, BS ’99
Biology. Second-year student, DVM program, Purdue Univ. Plans a career in companion animal medicine. Fund-raising chair, Student Chapter, American Veterinary Medical Assoc. Pets, Mikey, 8 yr old miniature American Eskimo dog; Vulture, 6 yr old cockatiel.

Bast, Angela, BS ’99
Biology. Research, Virology, Alpha Therapeutic Corp, City of Industry, Calif.

Beckman, Candy, BS ’99
Biology. Second-year student, IU School of Medicine. Volunteer, Riley Children’s Hospital, Indianapolis. Member, American Medical Women’s Association.

Belcher, Nicole, BA ’99

Bennett, Shannon, BS ’99

Bentley, Ryan, BS ’99
Biology. Student, National College of Chiropractic. Spouse, Terra.

Bero, Suzanne, BS ’99
Biology. Graduate student, physician assistant program, Touro College, Manhattan, N.Y.

Black, Brian, BS ’99

Bradburn, Kimberly, BS ’98
Biology. Medical student, IU School of Medicine. Married to Brent Swigert, October 2000.

Brantley, Tammy, BA ’99
Biology. BS ’00 Clinical Lab Science, Allied Health. Medical Technologist, Riverview Hospital, Noblesville, Ind.

Brokaw, David, BS ’99
Biology. Cancer Cytogenetic Technician, IU School of Medicine, Dept. of Medical and Molecular Genetics. Has no pets, but considers himself a "dog" person.

Brown, Daniel, BS ’99
Biology. Second-year student, IU School of Law.

Buch, Rebecca, BS ’99
Biology. Spouse, John R. Buch, O.D., MS ’98 Physiological Optics.

Cain, Stephanie, BA ’99

(continued on page 8)
Alumni notebook
(continued from page 7)

Clouse, Jolene, BA ’99
Biology. Third-year student, IU School of Medicine, South Bend Center for Medical Education.

Clouse, Thomas, BS ’96
Biology. Student, IU School of Medicine.

Clune, Patricia, BS ’99
Biology. Completed two internships at Marine Laboratories, Sarasota, Fl., working first with sea turtles, then with manatees. Now an intern on Hunting Island in South Carolina, again working with sea turtles.

Collaros, Victoria, MD, BS ’93 Biology, Physician, Riverside Family Practice, Newport News, Va.

Cornelius, Jonathan, BS ’99 Biology. Second-year student, IU School of Medicine. Sponsor, Big Brothers/Big Sisters.

Craig, Patrick, BS ’93

Deitchle, Matthew, BS ’94
Biology. BS ’95 Psychology. Grad student, Ball State Univ., MBA, Information Systems.

Dinn, Robert, BS ’99
Microbiology. Second-year student, IU School of Medicine.

Dmitri, Brian, BA ’97
Biology. Teacher, Edward Little H.S., Lewiston, Me. Spouse, Lisa, BS ’96 Public Affairs/Environmental Science.

Dohoney, Sharon, BA ’99

Dowell, Joshua, BS ’99
Biology. MD/PhD student, Pharmacology, IU School of Medicine. Recipient, Award for Cardiovascular Research at the Western Student Medical Research Forum, Carmel, Calif.

Eller, Tim, BS ’99
Biology. Second-year student, Purdue School of Pharmacy.

Falcone, Angela, BA ’97
Biology. Dental student, University of Ill.

Fenton, Michele, BA ’94
Biology. Librarian, State of Indiana, Indianapolis.

Galvin, Bradley, BA ’95

Gleissner, Stephanie, BS ’94
Biology. Toxicologist, Eli Lilly & Co. MBA candidate, Butler University.

Gohor, Erin, BS ’99
Biology. Second-year student, Physician Assistant program, George Washington Univ.

Gravett, Michael, BS ’94
Biology. Student, National College of Medicine in Portland, Ore.

Gray, Jill, BS ’99
Biology. Third-year student, Kansas University.

Greene, Emily, BA ’99
Biology. Veterinary technician. Assistant, Riverside Veterinary Group; server, Houston’s Restaurant; and actress, N.Y.C. Completed a national tour of Beauty and the Beast with American Family Theatre. Member, Wildlife Conservation Society, N.Y.C.

Grunden, Julie, BS ’99
Biology. Third-year student, Purdue School of Veterinary Medicine. Pet, Kramit (the cat); Arlo (the fish); and Arthur (the rabbit).

Guruswamy, Tanya, BS ’99

Hall, Bradley, BS ’99
Microbiology. Lab Technician, Andrew Ellington at Univ. of Texas. Research, designing molecular taggant technology for tracing and cataloging certain products. Plans to apply to the FBI after gaining experience and training. Spouse, Alisha. Lives in Austin.

Hansen, James, BS ’99
Biology. Second-year student, Univ. of Ill. – Chicago.

Hart, Andrew, BS ’99
Biology. Second-year student, IU School of Medicine.

Assistant Scoutmaster, Boy Scout Troop #58, Evansville, Ind. (MS ’86 Purdue Univ.)

Hosel, Matthew, BS ’99
Biology. Second-year student, IU Dental School.

Henderson, Theresa, BS ’99

Hendrick, Nicole, BA ’98
Biology. Veterinary Tech graduate, Purdue University, 2000.

Hernandez, Paula, BS ’94

Hess, Amber, BS ’99
Biology. Second-year student, physical therapy program, Midwestern Univ., Ill.

Hilmert, Laura, BS ’98
Biology. Graduate student, IU School of Law.

Hornaday, Matthew, BA ’99
Biology. Second-year student, IU School of Dentistry. Spouse, Tammy, Pet, Casey, black cocker spaniel.

Hubert, Katherine, BS ’99
Biology. Second-year student, St. Louis Univ., School of Medicine.

Jenkins, Antoine, BS ’99

Johnson, Randie, BS ’99

Justice, Benjamin, BS ’99
Biology. Second-year student, IU School of Medicine.

Kalnits, Julie, BS ’95
Biology. Practicing, Toledo, Ohio. (DVM ’99 Ohio State Univ.)

Kashanian, Shiva, BS ’99
Biology. Graduate student, physician assistant program, in Connecticut.

Kheyavi, Anabita, BA ’99
Biology. Second-year student, Master of Physical Therapy program, Old Dominion Univ., Va.

Kidd, Tracy, BA ’99
Biology. Psychology. Pediatric medical receptionist.

Kim, Nancy, BA ’99
Biology. BA ’99 Germanic Studies. Second-year student, IU School of Medicine.

Kronland, William, BS ’96
Biology. Completed a three-year Peace Corps assignment in Siberia following graduation.

Krutul, Jay, BS ’94
Biology. BA ’94 History. Attorney at Law, Washington, D.C.

Kubek, Michael, BA ’99

Kwosny, Jennifer, BS ’99
Biology. Graduate student, Environmental Management program, Duke Univ.

Laird, Sheri, BS ’91

Lancaster, Shawn, BS ’99
Biology. Cytogenetic Lab Technician, IU School of Medicine. Spouse, Jill, BS ’98 Nursing.

Lasbury, Nora, BS ’99
Biology. Third-year student, IU School of Medicine. Volunteer, Riley Children’s Hospital and St. Thomas Clinic.

Lasher, Matthew, BS ’00
Microbiology. Army Aviation Officer, Platoon Leader. Completing Rotary Wing flight school. Spouse, Christa.

Lehman, Amber, BA ’99

Levitt, Tracy, BA ’99

Ludwig, Susan, BS ’99
Biology. Second-year MBA candidate, Purdue Univ.

Lynch, Kristopher, BS ’99
Biology. Employed as a patent agent and technology specialist.

Mason, Amanda, BA ’99
Biology.

May, Andrea, BS ’99

McMahon, Donald, BS'90 Biology, MD'95. Physician, St. Francis Medical Group, Mooresville, Ind. Director of Hospice, St. Francis, Indianapolis. Pet dog, Ro.


Miller, Daniel, BS'99 Biology. Second-year student, IU School of Medicine. Community group leader, Evangelical Community Church, Bloomington.

Miller, Erika, BA'96 Biology. Data Collection Coordinator/Assistant, Kelly Scientific. Assigned to Insulin Products and Oncology teams, Eli Lilly & Co.


Montag, Jonathan, DDS, BS'96 Biology. Dental practice, Albany, N.Y.

Mostak, Richard, BS'99 Biology. Medical student, Univ. of North Carolina.

Ortner, Carrie, BS'99 Biology. Second-year student, IU School of Law, IUPUI.

Palazzolo, Christopher, BS'99 Biology. Quality assurance, Hepatitis B business team, Abbott Labs, Ill. Pet kitten, No-me. Swim instructor, YMCA.

Paul III, George, BS'99 Biology. Graduate student, Purdue Univ. School of Pharmacy.

Paul, Jonathan, BS'99 Biology. Second-year student, Emory Univ. School of Medicine.

Penniall, Brian, BS'99 Biology. Second-year student, University of Ill.-Chicago dental school. Pets, two cats, Bazzle and Cybil.

Perry, Brea, BA'99 Biology, BS'99 French, BS'99 Psychology. Research project manager. Study of HIV risk among the seriously mentally ill. Graduate student, Medical Sociology & Sexuality, IU Bloomington. Proud owner, two dogs and a gecko.

Pilling, Aaron, BS'99 Biology. NIH Fellow, Saxton Lab, IUB. Spouse, Stephanie.


Pollyea, Daniel, BS'99 Biology. Second-year medical student, Pritzker School of Medicine, Univ. of Chicago. Volunteer, Free Health Clinic operated by medical school classmates.

Pope, Brian, BS'98 Biology. Dental student, Ohio State Univ.

Pukkila-Worley, Read, BS'99 Biology. Medical student, University of North Carolina.

Reddy, Chetana, BS'99 Biology. Third-year student, IU School of Medicine. Volunteer, Riley Children's Hospital, Indianapolis.

Reising, Adam, BS'99 Biology. Graduate student, IU School of Optometry.

Rietsmeesters, Sommer, BS'99 Biology. Ukraine Peace Corps member, June '99 through Sept. '01.

Richardson, Charles, PhD'99 Ecology & Evolutionary Biology. His band, including fellow IU graduates, is in studio recording their first CD.


Robinson, Kristin, BS'99 Biology. Sales rep, Sunkist, with eventual plans for pharmaceutical sales. Pet, Damon, yellow lab.

Romas, Christopher, BS'99 Biology. Second-year student, IU School of Dentistry.

Rosenblum, Jason, BS'97 Biology. Graduate student, Dr. William M. Scholl College of Podiatric Medicine to complete program, May 2001.

Samm, Michelle, BS'92 Biology. Marine Mammal Trainer, Dolphin Research Center, Florida Keys.

Schamroth, Andrew, BS'99 Biology. Organic chemist, Roche Diagnostics, Indianapolis.

Schneider, Clay, BS'97 Biology. Third-year medical student, Winnetka, Ill.


Schultz, Kimberly, BS'99 Biology. Resident naturalist and Researcher, Ecolodge Sun Luis and Biological Station, Costa Rica.

Schussler, Thomas, BS'94 Microbiology, MS'95 Physiology, MD'99. Internal Medicine residency, St. Vincent's Hospital, Indianapolis.

Scott, Christopher, BA'99 Biology. 2nd Lt., U.S. Air Force. Student aviator, Vance AFB, Okla.

Simkins, Beth, BS'97 Biology. Graduate student, Education, Univ. of Minn. H.S. teacher, biology and physical science; coach, cheerleading, Thomas Jefferson Sr. H.S., Bloomington, Minn.


Smith, Jessica, BS'99 Biology. Medical student, Univ. of Texas, Houston.


Sowders, Ginger, BS'99 Biology. Keeper, Indianapolis Zoological Society, domestic animals. Public educator and trainer in basic husbandry. Spouse, Stephen Vargas. Avid animal lover, spends free time either at the zoo or at home with her dog, Ezekiel.

Spevacek, Lisa, BS'94 Biology. OD'98 Optometry. Practicing, Naperville, Ill.


Stone, Jana, BS'99 Microbiology. PhD genetics student, Univ. of North Carolina.

Tushan, Mark, BA'99 Microbiology. (MS'00 Biotechnology, Northwestern Univ.)

Walker, Angel, BS'99 Biology. Student, Southern Ill. Univ. MEDPREP program; then on to medical school. MEDPREP Club President.


Wang, Andrew, BS'99 Biology. Medical student, Harvard University, HST program.

Webster, Thomas, BS'99 Biology.


Williams, Charles, BS'99 Biology. Medical student, American Univ. of the Caribbean, St. Maarten, Netherlands Antilles. Board member, St. Maarten Roadrunners Club.


Wright, Tara, BS'97 Biology. Quality Assurance Director, Interstate Blood Bank Inc.

2000s

Baker, Jason, BS'00 Biology. Second-year student, IU School of Dentistry.

Bauer, Sarah, BS'00 Biology. First-year medical student, Pritzker School of Medicine, Univ. of Chicago. Member, American Medical Women's Association. Volun-

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Alumni notebook (continued from page 9)

teer, Neonatal Intensive Care Unit, Cuddlers Program.
Belagaje, Samir, BS’00
Microbiology, BS’00 Public Affairs/Public Policy. Second-year student, IU School of Medicine.
Christie, Elizabeth, BA’00
Biology. RN, Cardiac Medical, St. Vincent Hospital, Indianapolis. Student, BS Nursing, Bellarmine Univ., Ky.
Chui, Emily, BS’00 Biology.
Second-year student, IU School of Medicine. Summer appointment, Indiana Dept. of Health. Summer volunteer at camp for chronically ill children in Florida.
Corcoran, Daniel, BS’00
Biology. Lab Technician, Frontier Geosciences, Seattle.
Eads, Todd, BS’00 Biology.
First-year medical student, IU School of Medicine. Air Force Lt, Medical Air Force Program.
Evans, Leslie, BA’00
Biology. First-year student, Dental Hygiene, IU Northwest.
Dhahir, Adnan, BS’00
Microbiology. Quality Control Microbiologist, Pfizer.
Green, Gretchen, BS’00
Biology. First-year DVM student, Univ. of Tenn. Fiddler in a Knoxville bluegrass band.
Gripe, Amanda, BS’00
Biology. Graduate student, Biology at IUPUI, Purdue School of Science. Starts medical school, August 2001, IU School of Medicine.
Hamilton, Amy, BS’00
Biology. Microbiologist, Laboratory Corp. of America, Louisville, Ky.
Horton, Samuel, BA’00
Keeton, Jeremy, BA’00
Biology. BA’00 Chemistry. Organic chemist and intern, Eli Lilly & Co., Indianapolis. Graduate student, Chemistry, IUPUI. Spouse, Jessica Keeton, BS’00 Education.
Keith, Joshua, BA’00
Biology, BA’00 Spanish. First-year medical student, Midwestern University, Ill.
Kroczek, Catherine, BS’00
Lee, Joshua, BA’00 Biology.
Research Assistant, Methodist Research Institute, Indianapolis. Spouse, Angela.
LeMaster, Rhea, BS’00
May, Wendi BS’00 Biology.
Senior Lab Technician-Mont., Richmond Family Care Center, Ind. Spouse, Andrew. Children, two boys, 14 years and 8 months. Facilitator for Mending Hearts.
Menzie, Anna, BS’00
Microbiology. PhD genetics student, Univ. of Wisconsin, studying cellularization and germ plasm determination in the zebrafish.
Meyer, Erin, BS’00 Biology.
Senior Associate, Operational Support, Meridian Biosciences, Cincinnati.
Moore, Bradley, BS’00
Moses, Kristie, BS’00
Nixon, Keri BA’00 Biology.
Park, Suzannah, BS’00
Biology. Second-year student, IU School of Medicine.
Patel, Neha, BS’00 Biology.
Second-year student, IU School of Optometry. Member, Fellow...

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Top honors
(continued from page 1)

members of our faculty also belonged to
the National Academy, including Muller,
Briggs, Cleland, Sonneborn, Carl H.
Eigenmann, and Marcus Rhoades. Three
former faculty members were elected to
membership in the academy while here at
IU, including David L. Dilcher, Norman R.
Pace Jr., and the late Richard C. Starr.

Last year, Raff was also named the
Rudy Professor of Biology in recognition of
his research, teaching, and service to the
university. The professorship is named after
James H. Rudy, who left the bulk of his
estate to Indiana
University. Originally
this award was reserved
for English professors,
but was later expanded
to attract and retain
outstanding faculty from
all disciplines.

The Council for the
Advancement and
Support of Education
and the Carnegie
Foundation for the
Advancement of
Teaching honored Craig
Nelson for his improve-
ment of undergraduate
teaching. He was named
U.S. Professor of the
Year last November.

Distinguished Professor Thomas Kaufman
was elected to the American Academy of
Arts and Sciences in 1999.

Nelson earned this award in the research
and doctoral universities division. He was
also honored at IU's annual Founder's Day
ceremony, where he received the rarely
bestowed President's Medal for Excellence.
Past recipients have included the School of
Music's Beau Arts Trio, the Dalai Lama,
and former U.S. Congressman Lee
Hamilton.