

BIOLOGY

Fall 1990/Vol. 7

Indiana University Alumni Newsletter

Warren Genetics fellowship established

Many a daughter dreams of honoring her father in some spectacular way. Alice Warren Dockstader did just that when she established the Don C. Warren Genetics Fellowship.

"I decided upon the Warren Fellowship to honor my father and his work in genetics," says Dockstader. "His 100th birthday seemed like the appropriate time. Indiana University was the logical choice, in view of his birthplace and the education the University gave him.

"The sale of my father's house, half of which I inherited from my mother, who died in 1978, made the money available. The endowment can be considered a gift from my mother, as well as myself."

Though born on an Indiana farm, Don Warren was not interested in farming. When he became engaged to Inez Elmira Shierling in 1911, Warren asked his father to forgo his proposed wedding gift of \$500 and a cow. Instead, Warren convinced his father to let him use the money to attend IU.

Warren earned two degrees from IU's zoology department: a bachelor's in 1914 and a master's in 1917. His beloved wife, Mira, helped make both degrees possible. She trimmed and sold hats in a shop, while Warren worked in zoology as a student assistant at 25 cents an hour. His work and studies brought him in close contact with professors Carl Eigenmann, Fernandus Payne, and Will Scott—the entire faculty of the department in those days.

With their help, Warren spent 18 months working with A. M. Banta after earning his undergraduate degree. He calls this time at the Carnegie Station for Experimental Evolution at Cold Spring Harbor, Long Island, "one of the most fruitful experiences in my life." There, he worked with researchers C. B. Davenport, J. L. Harris, E. C. McDowell, Oscar Riddle, and G. H. Shull.

It was then back to IU where Warren entered the master's program under the direction of Payne. Mrs. Warren served as her husband's lab assistant, and, thanks to her invaluable aid, he published three scientific papers on genetic research with the fruit fly.

After graduation, the couple spent several years in the South where Warren was an entomology assistant, working to control the cotton boll weevil. In 1921, they relocated to New York so he could enroll in the doctoral program at Columbia. With them went daughter Alice, born in March of that year. Warren studied genetics in the lab of Professor Thomas Hunt Morgan and earned his degree in two years.



Photo courtesy of the Warren Family

The Warren family in Kansas in 1947

Warren spent 25 years at Kansas State University, conducting pioneering research on the genetic development of chickens. In the late 1940s, Warren went to Purdue University, under the auspices of the United States Department of Agriculture, to coordinate the establishment of a regional research laboratory and farm on poultry breeding. He also served as an international consultant for the USDA.

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Warren Fellowship established

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Like her father, Dockstader was a trailblazer. At a time when many women didn't work outside the home, she trained as an architect. Active in that field for some 33 years, she held responsibilities ranging from architectural draftsman on the planning and construction of the Malden (Mo.) Air Force Base, to architectural and city planning designer for Bloomfield Hills, Mich., to staff architect for the Museum of the American Indian.

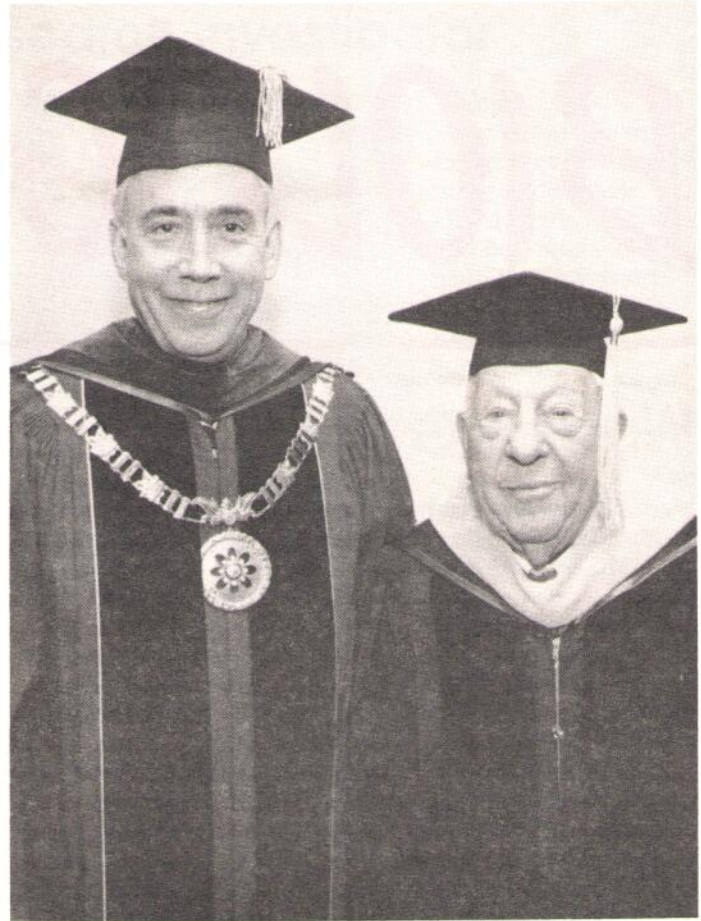
She met her husband, Fred, while studying at the Cranbrook Art Academy, in Michigan, where he was on the faculty. The two were married in 1951. They live in New York, where for 20 years, Fred directed the Museum of the American Indian, Heye Foundation.

The Dockstaders share an interest in Native American art and a love of travel. After many years in the architectural field, Dockstader now works part-time as a tax preparer, because "mathematics and tax logic come easily to me and this allows a fair amount of the year for traveling."

Unfortunately, Dockstader wasn't able to come to the Biology reception, held on May 5, to celebrate the establishment of the Warren Genetics Fellowship, which will be awarded in the 1991-92 academic year. Her father did attend, however, spending the afternoon touring the department and meeting with faculty and staff. Despite the bad weather, he marched in the commencement ceremonies held that day!

Don Warren's accomplishments

- 1933 Poultry Science Association Research Award
1940 Borden Award for research on
- the relation of feathering to sex, involving use of this characteristic in determining sex in standard breed baby chicks;
 - the physiology of reproduction, resulting in information on ovulation in the fowl and factors in egg formation;
 - the genetic nature of a number of mutations and their linkage relations in the genetics of the fowl; and
 - the interaction of genetic and environmental factors in poultry.
- 1940s Elected a Fellow of the Poultry Science Association
Elected to the American Association for the Advancement of Science
- 1941-44 President of the Poultry Science Association
- 1950s Superior Service Award from the Secretary of Agriculture for his work in the U.S. Department of Agriculture
- 1972 Honorary Doctorate of Science from IU, bestowed in recognition of his many accomplishments. "One of my greatest satisfactions in life was to receive this honor from my alma mater," Warren proudly states.



IU President Thomas Erhlich, left, and Don Warren at May 1990 Commencement

IU News Bureau

Ruesink honored

Al Ruesink, professor of plant sciences, was recently honored at a reception, held by the dean of faculties office, where he received a Distinguished Service Award in recognition of his outstanding dedication to the University.

Ruesink has been active on the Bloomington Faculty Council and serves on an IU Foundation advisory board. Presently, he chairs a committee to review the dean of students and one to restructure systemwide faculty governance. At the departmental level, Ruesink chairs the curriculum committee, directs Biology's master of arts in teaching program, and led the student support task force for the Undergraduate Initiative program, funded by the Hughes Institute.

As a University Division faculty advisor, Ruesink also serves as a Willkie Fellow, dining regularly with the students in this housing unit. These activities, combined with his teaching and research responsibilities, would overwhelm most people. Ruesink still finds time, however, to head the campus International Folk Dance Club with his wife, Kathy.

Hilltop internship funded

When Biology's Barbara Shalucha established the Hilltop program some 40 years ago, no one thought it would become a Bloomington tradition. Since then, thousands of children have learned the joys of gardening, thanks to this award-winning program. It is recognized as one of the nation's top-ten youth gardens.

Arlene Ferguson, an avid gardener and member of the local garden club, helped start Hilltop Gardens. Her family continues to play an important part in the program's history. Arlene's son, Steve (JD'66), and several of her grandchildren were Hilltop gardeners. Her son, Jim (BA'50 Government; JD'66 Law), now serves on their educational foundation. They, along with sister Mary Ann Seeber (BS'52 Education), established an herb garden at Hilltop in memory of their mother in 1981.

With the family's dedication to the program, it is only fitting that Steve created the Arlene Ferguson Internship at Hilltop Gardens this year. Annually \$500 will be awarded to an undergraduate who is interested in botany and able to serve a spring semester internship at Hilltop.

Jennifer Kipp, senior biology major, is the first Ferguson recipient. Kipp has worked at Hilltop as a summer garden instructor for the past four years. She plans to attend graduate school in a program that will enable her to work in a natural history museum.

Kipp is looking forward to the internship. "I really enjoyed my work at Hilltop and had a lot of fun there. It's a great place and I'm glad the Ferguson award enables me to



Kevin Hutchinson

Jane Clay, left, and Jennifer Kiff at Hilltop's Arlene Ferguson Memorial Herb Garden

be involved with the program again," she says.

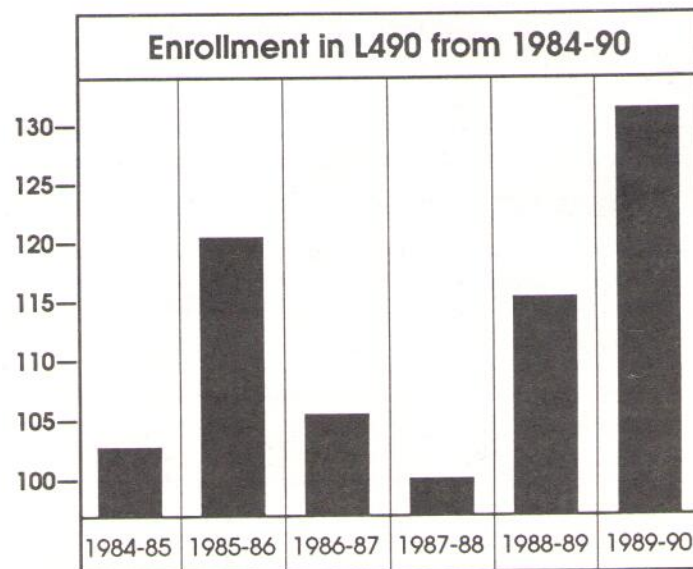
Hilltop's current director, Jane Clay (MA'71 Plant Science), is also delighted with the internship. She says, "Students attracted to Hilltop are rather diverse. I think this speaks to the universality of the satisfaction gardening offers. Those who train as interns may go on to professional work in horticulture or participate as volunteers in their home communities in youth gardening. The additional staffing this provides will help the program, plus be of benefit to interns."

Undergraduate Initiative: Making a difference

Biology's Howard Hughes Medical Institute (HHMI) Undergraduate Initiative, also referred to as The Indiana Plan, has completed its first year of operation. Soon after HHMI funds were received in the department, priorities were established, and a team of task forces were developed to achieve program goals. Thirty-two staff members joined the HHMI task forces to address concerns in the areas of assessment, curriculum, faculty support, status of women and minorities, public policy, student support, and undergraduate research.

The most noticeable impact that The Indiana Plan has had on the department is the rise in research endeavors among undergraduates, says George Malacinski, HHMI program director. To date, \$39,378 in HHMI funds have supported 71 undergraduate researchers. Since fall 1989, students have competed for \$100 to 300 in cash awards and for up to \$500 in supply grants. Full-time summer undergraduate research internships were created as a result of HHMI funds. Three internships were awarded last summer, each carrying a \$1,600 stipend, tuition reimbursement, and a \$500 supply grant.

Due to increased interest in biological research among undergraduates, the first annual Howard Hughes Under-



graduate Research Symposium was held in Jordan Hall last April. The event featured IU undergraduate researchers in
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Undergraduate Initiative

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biology, chemistry, and medical sciences. "Early undergraduate exposure to research is a positive step toward increasing the flow to graduate school," says Malacinski. "Our premise is that direct involvement with research programs—or interaction with faculty members in a research context—draws undergraduates to graduate careers."

Another major thrust of the grant is to increase interest in biology careers among minorities. The Indiana Plan has joined forces with other successful programs on campus whose mission is to recruit and retain increased numbers of minorities. This year's efforts have included providing funds to the Minority Achievers Program (MAP), which recognizes high achievement among minority students. Twelve minority undergraduates are being supported during the 1990 academic year by matching funds from HHMI and MAP.

During the 1990 summer session, HHMI funds supported five minority junior high students selected to participate in the College for Gifted and Talented Youth at IU. These young Hoosiers spent two weeks of study on deep sea exploration with biology faculty. In addition, HHMI summer funding went to three visiting minority undergraduate researchers from Jackson State and Coppin State universities as part of the CIC summer research opportunities program.

Another HHMI goal is to foster the enhancement of critical thinking skills among biology undergraduates. As a starting point, the first course for biology majors targeted for revision is L211, Molecular Biology, which is being taught in a new way this fall semester. The following steps have been implemented in the L211 revision:

- In collaboration with a major publishing house, textbook revision is under way to better suit HHMI efforts in teaching critical thinking skills.
- An elite cadre of HHMI teaching fellows has been appointed to assist with organizing 150 students into small learning groups.
- Undergraduate students, serving as teaching interns, are assisting HHMI teaching fellows with the group dynamics of small study groups.

• 3-D molecular models have been purchased for use in classroom demonstrations.

One of the more visible results of the HHMI project has been the creation of *Biologically Speaking*, a newsletter distributed to undergraduates expressing an interest in biology. The newsletter, which discusses various career options available to our students by highlighting departmental alumni, has featured Linda Ellis, BA'71 Zoology; MS'77 SPEA, environmental hazardous waste consultant;

"We've targeted intellectual and faculty development and the increased flow of undergraduates to graduate programs as major components of The Indiana Plan. Fostering the career development of undergraduates who plan to pursue postsecondary education in biology and related disciplines is at the forefront of our endeavors."

—George M. Malacinski
HHMI Program Director

Patricia Hoffman, BA'76 Biological Sciences, pharmaceutical sales representative; the late Joan Wood, BA'72 Plant Science, MA'75 Plant Science, PhD'81 Genetics, MD'83, genetic counselor; and Melissa Kevorkian, BS'85 Microbiology, production manager for Endotech Corp.

Each issue reports on undergraduate research opportunities and other useful information, including deadlines, scholarships, test dates, and University and departmental services for tutoring, computer clusters, career counseling, and academic advising. One student has commented that he found the newsletter helpful and enjoyable, particularly features about "alumni and the jobs they currently hold."

Cathi Eagan, HHMI assistant program director, and Kathy Wyss, development officer, for biology, co-edit the newsletter and work with the undergraduate Biology Club to involve students in reporting, production, and distribution.

We want to hear from you . . .

IU's Department of Biology and the Alumni Association are always interested to learn about alumni and their activities. Please send your news, or change of address, to Alumni Publications, IMU M-17, Bloomington, Indiana.

Name _____ Degree/date _____

Address _____

City/State/Zip _____

Current position/employer _____

News of promotions, publications, awards, personal achievements, etc.

Biology Alumni 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.

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Staff news

Departures

There is an old adage that nothing is so sure as change. That couldn't be more true in this department. Faculty occasionally accept positions with other universities. Others retire, and of course, new faculty are brought in to replace those leaving. Throughout this process, the chairman has the responsibility of moving those who are scaling down their research into smaller labs and finding space for the newcomers. It's a never ending process.

With this in mind, it's not surprising that there are staff changes to report. Paleobotanist **David Dilcher** accepted a position at the University of Florida in Gainesville. He had been at IU for 24 years.

Two other members of our staff also moved to Florida. **Rollin** and **Ann Richmond** are now at the University of South Florida in Tampa. In his new position as dean of their College of Arts and Sciences, Rollin, a 20-year veteran of our department, is eager to utilize the administrative skills he developed as Biology's chair (1982-87). Ann is teaching biology courses and runs a teaching resource center at USF-Tampa.

Retirement

To say that Professor **Drew Schwartz** has retired is not entirely true, since he continues his research in corn genetics. Like Marcus Rhoades, he can still be found planting corn crops for his experiments each spring.



Drew Schwartz

Schwartz investigates how maize controls its development and gene expression. During his career, he adapted the electrophoresis technique for use in genetic studies. His pioneering work in this area resulted in the identification and isolation of the sucrose synthetase as the product of a single gene. This was the first such case identified in corn. He also presented the first evidence for allelic isozymes and demonstrated the existence of "hybrid" enzymes.

In his work with enzyme systems, Schwartz developed a powerful method to screen for alcohol dehydrogenase negative mutants making use of haploid pollen grains. It was he who discovered and analyzed the PROT

embryonic globulin storage protein gene in corn as well as a related processing gene.

While an excellent teacher, Schwartz's first love has always been research. In its heyday, his lab was so full of students and postdoctoral fellows that many chose to conduct their research at night when more space was available.

Schwartz's other passions include classical music and IU basketball. It is common knowledge in Jordan Hall that his mood varies with the fortunes of the team!

Arrivals

Bill Saxton, formerly a postdoctoral fellow with IU's Institute for Molecular and Cellular Biology, was given a faculty appointment on July 1. He is working to characterize the microtubule-based motor protein kinesin in *Drosophila melanogaster* (fruit flies).

Alan Bender joined the department in August. He came from the University of Michigan where he was conducting research in yeast bud emergence. He is interested in cellular morphogenesis.

In May of 1991, **Roger William Innes** will join the department. Until then, he is working on the identification of disease resistance genes in *Arabidopsis thaliana* at UC-Berkely.



Bill Saxton, left, and Allen Bender

Renovations under way

The state recently allocated \$1.2 million to renovate animal quarters in the biology and psychology departments. Improvements include asbestos removal; new heating and cooling systems; a cage washer; new ceilings, floor surfaces, and window treatment; and special temperature and light controls.

These changes will bring departments in to compliance with mandatory regulations concerning the care of laboratory animals and will help maintain necessary federal accreditation. Helen Arthur, director of physical facilities, purchasing, and services, is overseeing the project for biology.

Alumni news

Before 1960

John S. Gottschalk, MA'43. Retired former director of U.S. Fish and Wildlife Service, Arlington, Va.

Joseph G. Barkey, BS'49, MD'52. Self-employed anesthesiologist, Findlay, Ohio.

Robert D. Murphy, BS'49, MD'52. Retired anesthesiologist for Eisenhower Medical Center, Rancho Mirage, Calif.

Lawrence D. Stieglitz, BA'51, MA'52, MD'58. Child psychiatrist at Pheasant Ridge Center, Kalamazoo, Mich.

Daniel E. Overack, MA'57, PhD'60. Teaching as a professor of anatomy at the college of osteopathic medicine at Oklahoma State University, Tulsa.

1960s

Jane Haskett Bock, MA'60 Plant Science; PhD. Professor of biology, University of Colorado, Boulder, researching plant population biology in the U.S. and USSR. She lives with husband, Carl, and their black lab and tortoise. Her daughter, Laura, is away at college. Interested in conservation of native flora and enjoys skiing, fly-fishing, and snorkeling.

Alberto S. Taylor, MA'60, PhD'67. Chair of the botany department at the University of Panama.

Brenda (Brown) Davidson, BA'66 Zoology. Personnel services manager, operations, at Marion Merrell Dow, Cincinnati, Ohio. Married with three stepchildren. Active in Partners-in-Education Program, a business/school partnership. Has an English cocker spaniel. Nature photography, backpacking, hiking, running/road racing, and reading occupy her spare time.

Charles F. Thompson, BA'67, MA'70, PhD'71. Professor of ecology at Illinois State University, Normal, Ill.

Richard Leslie Bell, BA'69 Biology. Research horticulturalist with USDA, working on a pear breeding program for host resistance to pathogens and insects. He and wife, Tara, live with Puppy the Schnauzer. On board of directors of the Sheperdstown Men's Club, which maintains a community center and park. President: Western Maryland Folklore Society. Enjoys traditional music and dance of the Americas and Europe.

O. Ray Kling, PhD'69. Associate dean and graduate college and assistant vice-provost for Research Administration at Oklahoma University Health Sciences Center, Oklahoma City.

Margaret Wingrove Larson, BA'69 Zoology; MAT'70 Biology. Works in the Pentagon for the Air Force as an action officer for air force modification policy. Husband, T. Bear Larson. Member of Society of Logistics Engineers. Interests include music, travel, and reading.

1970s

Robert W. Jahnke, BA'70, MD'73. Chief of neuroradiology at Lovelace Medical Center, Albuquerque, N.Mex.

Cheryl L. Mason, BA'71, MA'75. Working at San Diego State University, Calif., on a variety of projects to encourage students to pursue a science-related field.

Ruby Frances Meredith, MA'71 Plant Science; PhD'74 Plant Science. MD'83 Ohio State University. Assistant professor of radiation oncology, University of Alabama at Birmingham. Involved with Cancer Supporters Group.

James L. Butler, BS'73. Owns Butler Winery and is president of Indiana Winegrowers, Bloomington.

Gloria Truesdel Nicholas, BA'73 Biological Sciences; BS'75 Nursing. Has three children: Celeste, Cole, and Chase. Resides in Indianapolis; active in her local church; enjoys tennis and biking.

Beth Payne Ullom, BA'73. Consulting geophysicist, Canton, Ohio.

Joanne M. Bryla, BA'74. Self-employed veterinarian, China Grove, N.C.

Donald J. Clutter, BA'75, MD'79. Self-employed facial plastic surgeon, Sacramento, Calif.

Mark S. Fremd, BA'76. Owner and medical director of Family Health Care Center, Connellsville, Pa.

David J. Palmer, BA'76. Published a chapter in *Ophthalmic Clinical Debates*, Yearbook Medical Publishers, Chicago, Ill. in 1989.

Jeffrey Eric Salon, BA'76 Biological Sciences; MD'80. Director of surgical intensive care at Humana Heart Institute International. Board certified in internal medicine and critical care medicine. Belongs to Society of Critical Care Medicine and Foundation of Critical Care Medicine. Is a Sub 2:45 marathon runner and an avid gardener.

Darrell N. Simone, BA'76. Anesthesiologist at Metrohealth Medical Center, Cleveland, Ohio.

Bruce E. Van Natta, BA'76, MD'80. In private practice in cardiology, Long Beach, Calif. Co-authored a publication in the *American Journal of Cardiology* in 1989.

Dorothy Louise Mammen, BS'77 Biological Sciences. Completed a computer science doctorate at the University of Massachusetts, Amherst. Husband, Stephen Trombulak; two children. Active with the Unitarian Universalist Society. Enjoys sewing, knitting, women's issues, feminism. Resides in Middlebury, Vt.

Daniel P. O'Connor, BS'77. Awarded the Chartered Financial Analyst designation by the Trustees of the Institute of Chartered Financial Analysts in 1989.

Karen Blair Rosen, BA'77. Practices optometry with her husband in St. Louis, Mo.

David W. Stiff, BA'77. Commodity manager for 3M Company, Naperville, Ill.

David Eric Van Ryn, BA'77 Biological Sciences/Chemistry; MD'81. Board certified by the American Board of Emergency Medicine. Fellow, American College Emergency Physicians. He and wife, Alisa, live with Baxter, their black lab. Serves on Hazardous Materials Advisory Board and the AIDS/STD Advisory Board. Hobbies include boating, sailing, fishing, traveling, and scuba diving.

Alejandro E. Santiago, MA'78. Research coordinator for the aquaculture department of the Southeast Asian Fisheries Development Center, Binangonan, Rizal.

Geoffrey A. Weinberg, BS'78, MD'82. Assistant professor of pediatrics at IU school of medicine, Indianapolis.

Richard Dennis Drake, BS'79 Biological Sciences; MD'83. Pediatric pathology, clinical microbiology. Lives with Teresa, Sara, and Spot. Hobbies: zymurgy and scuba.

Lawrence G. Falender, BA'79, DDS'83. Established private practice in oral and maxillofacial surgery in Indianapolis.

Gary M. Gaddis, BA'79, PhD'84, MD'86. Emergency physician at Truman Medical Center, Kansas City, Mo.

Ronald S. Gensburg, BA'79 Biology/Chemistry; MD'82. Radiology residency at University of Texas. Fellowship in angiography and interventional radiology at the University of Pennsylvania. On staff at St. Paul Hospital, Dallas, Tex. Interested

in photography, athletics, cars, and travel.

Roberta Scott Wallace, BS'79 Core Biology. DVM from Cornell. Formerly a veterinarian with the Indianapolis Zoo, now at the Milwaukee County Zoo. Enjoys guitar, bike riding, and visiting other zoos.

1980s

Susan Dorothy DeBevoise, BA'80 Biology. Family medicine residency at Stonybrook University Hospital, N.Y. Husband, Evan Metalios. Enjoys tennis and boating.

Daniel A. Engel, BS'80. Assistant professor for the microbiology department at the University of Virginia.

Ernest A. Franz, BA'80, MD'85. Part of a group practice in emergency medicine near Seattle, Wash.

Christopher J. Kearns, BS'80, AS'83. Practices dentistry in Chester, Conn.

Ronda L. Lancaster, BS'80. Planned to receive MS in microbiology from Miami University, Oxford, Ohio in 1989.

Pamela Lynn Roesch Martin, BA'80 Biology. Coaches and judges gymnastics. Husband, Roger, and their son, Wesley, live with Critter the dog.

Mark D. Mishler, BA'80. Director of finance for the business information group worldwide at Dun and Bradstreet, Murray Hill, N.J.

Douglas A. Neeld, BA'80, MD'84. Has a private practice as an allergist in Fort Wayne.

Todd P. Briscoe, BS'81, DDS'85. Has a private practice in New Haven, Ind.

Thomas S. Whiteman, BA'81, MD'85. Practices otolaryngology in Muncie.

Robert O. Bash Jr., BS'82, MD'86. Participating in a fellowship program in pediatric hematology-oncology at Dallas Children's Medical Center.

Charles D. Kennard, BA'82. Serves a fellowship in dermatologic surgery and cutaneous oncology at University of Iowa Hospital's department of dermatology.

Christopher Claude Corrao, BS'83 Biological Sciences. Manufacturers representative for Corrao Marsh, Inc., a Fort Wayne based marketing company. Has two boa constrictors. Active in civic theater, is a member of the IU Alumni Association, and interested in sports and flying—is a private pilot.

William L. Ebbs, BA'83. Has a clinical fellowship at the National Institute of Dental Research, Bethesda, Md.

Blas T. Mamaril, BA'83. Optometrist at Balian Eye Center, Rochester, Mich.

Eugene S. Justus, BS'84. Working on family practice residency at Erhling Berquist Strategic Hospital, Offutt, Neb.

Diane Stroup, BS'84, MA'86. Working for her PHD as a graduate student at Ohio State University.

Marisa A. Atria, BS'85. Graduated from Pacific University college of optometry, Forest Grove, Ore., in 1989.

Robert A. Briddell, BS'85 Biology. Promoted from senior research technician to research associate, hematology/oncology section, IU School of Medicine. Member of Greenpeace. Water skis, golfs, and plays baseball. Hobbies also include mountain biking, motorcycling (Harley Davidson), windsurfing, scuba diving, parachuting, and skateboarding.

Mark J. Flannagan, BS'85, DDS'89. In private practice as a dentist, Tell City.

Tim W. McDaniel, MA'85 Ecology/Evolutionary Biology; MSES'85. Environmental supervisor for air pollution at Navistar

International Transportation Corp., Springfield, Ohio.

Larry Parnell, BS'85 Core Biology. Industrial research scientist and molecular biology graduate student at University of Wisconsin, Madison. Likes swimming, water polo, popular music, art, and art museums.

Kipp E. Henning, BS'86. Participating in a surgical pediatric residency at American International Hospital, Ill.

David A. Iverson, BS'86 Biology. Graduated from Rush Medical School. Entered a psychiatry residency at the University of Colorado in Denver. Recently returned from a trip to Africa.

Gerard J. Sais, BA'86 Biology. Internship in internal medicine. Now in diagnostic radiology residency program at the University of Miami. Elected chief resident for the academic year. Becoming an accomplished sailor. Completed the Basic Coastal Cruising certification from the American Sailing Association.

Linda E. Sturrup, BA'86. Teaches science at Deady Middle School, Houston, Tex.

Susan C. Adamowicz, MS'87, MA'88. Principal natural resource specialist for the department of water resources, Providence, R.I.

Edward (Morrey) Atkinson, BS'87 Biological Sciences. Enrolled at Stanford University's Biological Sciences doctoral program. Enjoys Stanford and Northern California, where he skis and backpacks.

Mark E. Bollinger, BS'87 Biology. Senior dental research technician at IUPUI's Oral Health Research Institute.

David A. Eichel, BS'87. Student at Georgia Dental School, Augusta.

Paul L. Farmer, BS'87. Teaches physics and coaches wrestling at Bloomington South High School.

David M. Flory, BS'87. Graduate student in the Bowman Gray School of Medicine at Wake Forest University, N.C.

Julia A. Furdyna, BS'87 Biology. Enrolled at IU School of Medicine.

Holly L. Hedrick, BS'87. Student at Duke University School of Medicine and plans for a career in general surgery.

John D. Linson, BA'87 Biology. Attending IU Optometry School.

Tina Emmons Logsdon, BA'87. Graduate student at North Carolina State University and works for the Environmental Protection Agency in developmental toxicology.

Robert W. Mischler, BS'87. Volunteer with the Peace Corps. Taught science and math in a high school in West Nepal for one year.

Craig J. Barrette, BS'88 Biology. Key account representative with Miles, Inc.

Susan Elizabeth Bostwick, BS'88 Biology. Was a sales representative for Quality X-Ray Services, dealing in medical sales. Entered IU Law School in 1989.

Mara S. Catey, BS'88 Biology. Married in May. Attends Temple Dental School and enjoys Philadelphia.

Tony J. Checroun, BS'88 Biology. At IU Medical School in Indianapolis.

Charles E. Cornett, BA'88 Biology. Attending IU Medical School in Fort Wayne.

Timothy A. Fritz, BS'88. Graduate student at the University of Alabama, Birmingham. Fritz was awarded a National Defense Science and Engineering graduate fellowship by the U.S. Department of Defense in 1989.

Susan Marie Gutzwiller, BS'88 Biology. Administrative

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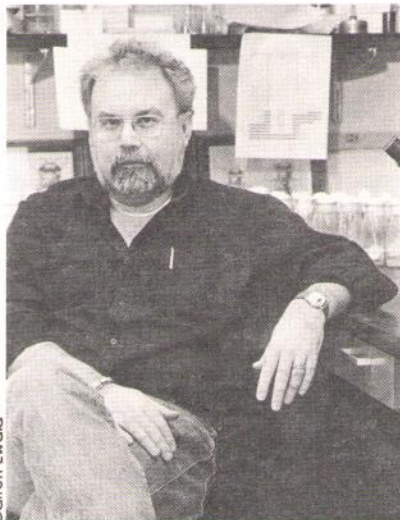
Kaufman named Hughes research investigator

Thom Kaufman received a seven-year grant from the Howard Hughes Medical Institute (HHMI) Research Laboratories to support his work in development and molecular genetics in January of this year. He is one of a group of HHMI-sponsored investigators conducting research in cell biology and regulation, immunology, neuroscience, structural biology, and genetics.

"The goal of this laboratory is to contribute to an understanding of how the essentially one-dimensional linear information encoded in the DNA molecule is elaborated into a three-dimensional organism during the process of development," says Kaufman. "As a model system in this analysis, we are using the fruit fly *Drosophila melanogaster*."

Kaufman and several members of his research staff are now full-time Hughes employees. He retains, however, his academic appointments as professor of biology, adjunct professor of medical genetics, and senior fellow of the Institute for Molecular and Cellular Biology.

The Hughes Institute funded the renovation of



Garrett Ewald

Thomas Kaufman

Kaufman's main laboratory to facilitate the molecular research being conducted. HHMI rents his office and laboratory space from the University and provides money for supplies and equipment.

The grant stipulates that Kaufman spend three-quarters of his time engaged in molecular genetic research. The remainder of his time is devoted to academic duties.

Alumni news

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assistant in the University of Cincinnati Office of the School of Planning. Pursuing a master's degree at UC. Husband, Tom Dermody.

Laura Moore Haffley, BS'88 Core Biology. Attending Medical School at IUPUI. She and husband, Mike, have four guinea pigs and a parakeet.

Catherine D. Hult, BA'88 Biology. Certified as an EMT-ambulance and is a member of the National Association of Fire Investigators. Attending Loyola University Law School, Chicago.

Cara Shackley Huss, BS'88 Core Biology. Sales associate at the Century 21-All Seasons Realtors, Bloomington.

John P. Incardona, BS'88 Core Biology. At Case Western Reserve University in the MD/PhD program. Interested in medicine in the Third World. Plays guitar semiprofessionally.

M. Mokhtar Ismail, BA'88. Studying at the University of Chicago in the graduate division of biopsychology.

Simon Katner, BS'88. Lives in Indianapolis. Competed in soccer at the 13th World Maccabiah Games, held in Israel in July.

Margaret J. Ryker Lock, BS'88 Biology. Research technician at IU Medical Center. Husband, Dan, is an EMT.

Stephen Sean Luther, BS'88 Biology. Attending IU Medical School. Active in his church, enjoys golf, and has a Samoyed dog.

Rebecca J. Mellencamp, BS'88 Biology. Enrolled at the IU Medical School in Indianapolis.

Mark A. Wright, BS'88. Medical research technician for the pathology research department at Edward Hines Veteran's Hospital.

Departmental friends

The people listed below are not our majors. They have been supportive of the department, however. Some are parents of our students, others have an interest in biology—often reflected by donations of time or money. All believe in the importance of what we are doing. Whatever the tie, we are grateful to them.

Keith R. Porter. Professor of cell biology, Rockefeller, Harvard, Colorado, Maryland. Member of the National Academy of Sciences.

Robert Woodley. Executive assistant to the director, IU Cyclotron. Former biology department staff member. Proud father of **Sarah**, BS'89 Core Biology.

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