Indiana University

BIOLOGY

Alumni Newsletter

Vol. I, No. 1 College of Arts and Sciences - Graduate School Alumni Association Spring 1983

A Message from the Chairman

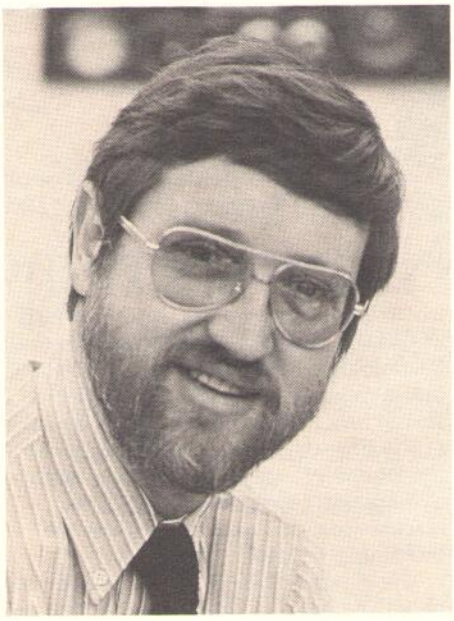
Dear Alumni,

The last ten years have had an enormous impact on the sciences. What was once a science fiction flight of imagination is now the reality of test tube babies, recombinant DNA technology, and alternate energy sources. Important discoveries are being made at an incredible pace.

The Department of Biology shares the excitement and generates its own. We are stimulated by the high quality and range of interests of our faculty. Graduate and undergraduate students continue to be of high caliber, to be competitive in the very best programs nationwide, and to spread a positive image of Biology at Indiana. A new wing is being built on Jordan Hall which will give us the most advanced research facilities, new classrooms, and the space in which to run innovative programs which involve industries and research world wide.

We are moving in new directions. This newsletter is just one example of the emphasis we put on the importance of our alumni. You have made a major contribution to the reputation of the department. You began the tradition of excellence that students and faculty carry on today. Biology should not be a single stage in your life–something you did when you were 20 years old. Biology is a part of your life, and we want you to be a part of this department. We want you to know what is happening with our students and research. We want to know what you think should be important priorities for us. The newsletter will be our primary method of correspondence, and we want it to reflect your interests. Let us know your reactions to our first effort. Give us suggestions and information. I urge you to fill out the form on page 6. We are interested in where you are and what you are doing now.

Rollin Richmond,
Chairman



Rollin Richmond

Where did all the departments go?

When Jordan Hall was opened in 1955 the Departments of Bacteriology, Botany, and Zoology finally came together after years of inhabiting separate buildings on campus. There were those who worried how the departments would coexist–animals eat plants and bacteria eat everything, but it finally became obvious that the departments had common interests that could best be served by some sort of confederation. Frank Young in his "Brief History of Biology at Indiana University" describes the move away from separate departments in these terms.

> *The prominent research issues of the day were more often biological than zoological or botanical or microbiological; molecular and genetic biology nutured by sophisticated biochemistry and the elucidation of the architecture and replicative mechanisms of DNA was revolutionizing studies of the genetic control of differentiation. A new breed of biologists, few of whom considered themselves botanists, zoologists, or bacteriologists* per se, *was emerging. A new generation of students, conditioned by modernized textbooks, was coming out of our high schools. Our conventional departments were being challenged by these circumstances and the simple kind of informal cooperation that had served us well no longer seemed able to meet the challenge.*

The Division of Biological Sciences was instituted in 1963 with Tracy Sonneborn as acting director. The Departments of Bacteriology, Botany, and Zoology still retained considerable autonomy and awarded degrees at all levels, but the Division became responsible for curricula, graduate fellowships, promotion and tenure, common facilities, and new faculty appointments. The Department of Anatomy-Physiology, first separated from Zoology in 1904, was a part of the Division at this time although its teaching and research were tied to the medical program.

In the late sixties and early seventies major revisions were made in the undergraduate curriculum. The Core Curriculum, or BS in Biological Sciences, a rigorous and highly experimental approach to biology, was instituted for strongly motivated students. The new "S" courses were highly integrated and taught from the standpoint of levels of organization rather than departmental affiliation. All "S" courses contained information on animals, plants, and bacteria, and were taught at the cellular, genetic, developmental, physiological, or population level. Graduates of the "Core" were accepted and funded by graduate, medical, and dental schools in the United States. They continue to be highly competitive to this day.

The AB in Biological Sciences followed close on the heels of the BS and, in fact, was patterned after it. Existing departmental courses were divided into categories, again at levels of organization. Students then had the flexibility of a pro-

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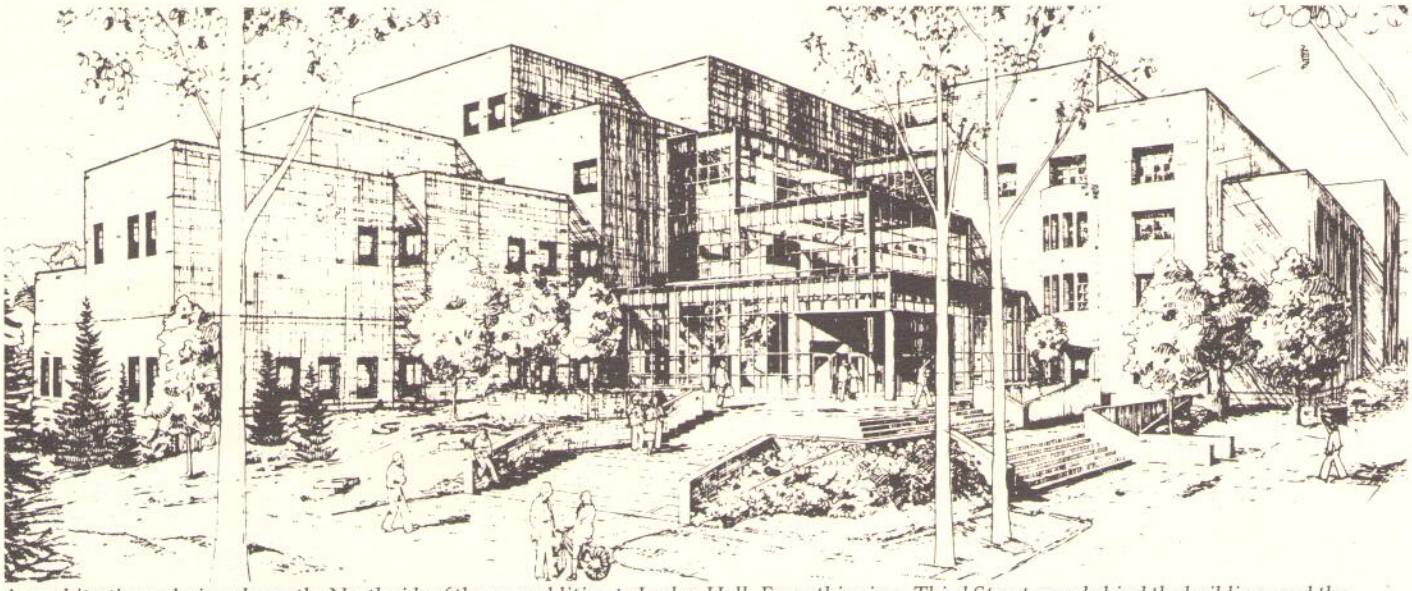
Jordan Hall addition to open in '84



An architect's rendering shows the North side of the new addition to Jordan Hall. From this view, Third Street runs behind the building, and the addition occupies the space of the old parking lot and loading docks. The addition will be ready for occupancy in 1984.

New wing to include labs, offices & lecture hall

In 1954, the cornerstone of Jordan Hall of Biology was laid. The Departments of Bacteriology, Botany, and Zoology moved into a modern, new, state-of-the-art research and teaching facility. Handbooks of the time described in glowing terms the flexibility, easy maintenance, attractive library, air conditioning, electric blackboards, and superb services the building provided.

Thirty years of wear and tear have tempered the truth of those statements, and the formerly spacious quarters are now badly over-crowded. Nonetheless, the building is clean and well maintained, the library is one of the best and most comfortable on campus, the air conditioning is overloaded, but the electric blackboards still work! What was not anticipated was the growth of the sciences, particularly in terms of equipment which demands space and produces heat, and new laboratory techniques which demand special facilities.

The 12.8 million dollar addition to Jordan which the faculty calls the new wing (among other endearing terms) will be ready for occupancy in 1984. At a cost three times that of the original building, it will increase space by 33 percent, add five new greenhouses, a 175 seat lecture hall, and numerous laboratories and offices. Once again all the departments will be under one roof, and Morrison Hall, formerly the home of the ecology faculty, the Undergraduate Advising Office, and graduate student offices will revert to the strongest predator.

In connecting the old with the new, there will be some curious linkages. Old Jordan Hall was built on an eleven foot elevation per floor but the addition will be built in today's mode of 15 feet per floor. The third floor of the new wing will plane with the fourth floor of the old wing. Interconnecting stairs and new elevators will solve most problems. Good signs will solve the rest.

The building also gets a face lift of sorts, for the new wing is built on the north, and will become the focal point. What was the front (on Third Street) will now be the back! The two story atrium has prompted several departmental contests to determine what should be displayed there. Suggestions have ranged from dinosaurs to unfettered *Drosophila* mutants to a trapeze.

Where did the departments go?

(Continued from previous page)

gram which allowed them to choose courses from every department. Although the departmental degrees still remained, the vast majority of undergraduates were now Biology majors. From 160 Biology majors in 1968, the numbers rose to 1200 in 1973. Current enrollment is now 845. In the last ten years, approximately 60% of these students have entered an advanced degree program– medical, dental, law, MBA, allied health science, or graduate school.

There have also been improvements in the operational aspects of the various departments for we then had a common stock room, instrument center, and electron microscope facilities. New faculty appointments were made which were interdepartmental. We no longer hired zoologists or botanists, but molecular biologists who worked with bacteria or geneticists who used fruit flies in their research. Departmental affiliations were disappearing.

In 1977, after debates comparable to the Mideast Peace Talks, the Division became the Department of Biology and Anatomy-Physiology moved to the Medical Sciences Program. Graduate programs were reorganized to reflect changes in faculty. The Department of Biology instituted graduate degrees in Genetics, Ecology and Evolutionary Biology, Molecular, Cellular and Developmental Biology– in addition to degrees in Microbiology, Plant Sciences, and Zoology. (You will notice that somewhere in this evolution Bacteriology became Microbiology and Botany became Plant Sciences; that is called progress.)

Today despite many misgivings the amalgamation works well with few remnants of the former parochialism. Currently the Department has 162 graduate students: 28 in Ecology and Evolutionary Biology, 21 in Genetics, 23 in Microbiology, 41 in Molecular, Cellular, and Developmental Biology, 16 in Plant Sciences, 21 in Zoology, and 12 in the Master of Arts for Teachers. The faculty numbers 48, supervising 51 post doctoral students and research associates, and 25 staff members. Helen Arthur still runs the whole building.

Faculty Update

This is an up-to-date list of the Department of Biology faculty and their areas of research. Can you see a change of research emphasis since you were here? How many of these professors do you remember? In the next issue we will feature Emeritus Professors, new appointments, and those who once taught here but have moved on.

Blumenthal, Thomas (1973). Professor. BA, Antioch College 1960; PhD, Johns Hopkins, 1970. The mechanism of control of expression of *Caemorhabitis elegans* during development.

Bonner, J. Jose (1979). Assistant Professor. BA, UC-Berkeley, 1972; PhD, MIT, 1977. The stress-response system in *Drosophila* from a genetic approach.

Chooi, Yean (1975). Associate Professor. BSc, U. of Malaya, 1967; PhD, U. of Adelaide, 1970. Organization of eucaryotic chromosomes and ribosome biogenesis in *Drosophila*.

Crouch, Martha (1979). Assistant Professor. BS, Oregon St. Univ., 1974; M Phil, Yale U., 1978; PhD, 1979. Develop. biology of higher plants.

Dilcher, David (1966). Professor. BS, U. of Minn., 1958, MS, 1960; PhD, Yale U., 1964. Paleobotany: angiosperm origins and their subsequent evolution.

Emlen, J. Merritt (1971). Associate Professor. BA, U. of Wisc., 1961; PhD, U. of Wash., 1966. Population genetics and theoretical ecology.

Fraser, Dean (1955). Professor. BS, Harvard Univ., 1938; MS, U. of Illinois, 1939; PhD, 1941. Proteins of ribosomes; preparation of clonal antibodies to *Drosophila* ribosomal proteins.

Frey, David (1950). Professor. BA, U. of Wisc., 1936; MA, 1938; PhD, 1940. Limnology; paleolimnology; systematics, ecology and evolution of the chydorid *Cladocera*.

Gastony, Gerald (1970). Associate Professor. AB, St. Louis Univ., 1964; MS, Tulane Univ., 1966; PhD, Harvard Univ., 1970. Speciation and evolutionary relationships with ferns and flowering plants.

Gest, Howard (1966). Distinguished Professor of Microbiology. BA, UCLA, 1942; PhD, Washington Univ., 1949. Microbial biochemistry of photosynthetic bacteria.

Hagen, Charles (1946). Professor. BA, Cornell Univ., 1939; PhD, IU, 1944. Plant physiology and horticulture.

Hegeman, George (1972). Professor. BA, Harvard Univ., 1960; PhD, UC-Berkeley, 1965. Microbial biochemistry and evolution of bacterial enzyme systems.

Heiser, Charles (1947). Distinguished Professor of Botany. AB, Washington Univ., 1943; MS, 1944; PhD, UC-Berkeley, 1947. Biosystematic studies utilizing cytological, chromatographic, and biochemical techniques.

Holland, James (1967). Professor. BS, Kentucky St. College, 1956; MS, IU, 1958; PhD, 1961. Endocrinology: reproduction physiology.

Hudock, George (1965). Associate Professor. BA, Harvard Univ., 1959; PhD, 1963. Genetics; control of gene action.

Kaufman, Thomas (1975). Associate Professor. BA, Calif. St. Univ., Northridge, 1967; MA, U. of Texas, 1970; PhD, 1971. Cytogenetics and developmental genetics of *Drosophila*.

Klein, William (1979). Assistant Professor. BS, U. of Michigan, 1968; MS, U. of Illinois, 1970; PhD, 1973. Gene expression in early development of sea urchin embryos.

Koch, Arthur (1967). Professor. BS, Cal-Tech, 1948; PhD, U. of Chicago, 1951; Evolution of metabolic pathways and control mechanisms for specific & global processes.

Konetzka, Walter (1955). Professor. BS, U. of Maryland, 1950; MS, 1952; PhD, 1954. Intracellular accumulation of metals by bacteria.

Mahlberg, Paul (1965). Professor. BS, U. of Wisc., 1950; MS, 1951; PhD, UC-Berkeley, 1958. Development of laticifer & glandular secretory systems.

Malacinski, George (1968). Professor. BA, Boston Univ., 1962; PhD, IU, 1966. Biochemistry and embryology of early amphibian development.

McClure, Polley (1972). Associate Professor. BA, U. of Texas, Austin, 1965; MA, U. of Montana, 1967; PhD, U. of Texas, Austin, 1970. Physiological & genetic mechanisms and ecological significance of animal life history characteristics.

Miller, Carlos (1957). Professor. BSc, The Ohio State University, 1948; MA, 1949; PhD, 1951. Plant growth and development; hormones.

Nelson, Craig (1966). Associate Professor. BA, U. of Kansas, 1962; MA, U. of Texas, Austin, 1964; PhD, 1966. Population and community ecology; vertebrate systematics; herpetology.

Nolan, Val, Jr. (1949). Professor of Law and Biology. BA, Indiana Univ., 1941; JD, 1949. Ecology and behavior of birds.

Polisky, Barry (1977). Associate Professor. BA, U. of Chicago, 1967; PhD, U. of Colorado, 1973. Genetics and molecular biology of the control of DNA replication.

Preer, John R., Jr. (1968). Distinguished Professor of Biology. BS, U. of Florida, 1939; PhD, IU, 1947. General genetics and biology of *Paramecium*.

Putnam, Frank W. (1965). Distinguished Professor of Molecular Biology and Biochemistry. BA, Wesleyan University, 1939; MA, 1940; PhD, U. of Minnesota, 1942. Structure, function and genetic control of immunoglobulins and other plasma proteins.

Raff, Rudolf A. (1971). Professor. BS, Penn. State, 1963; PhD, Duke Univ., 1967. Molecular biology and genetics of early development.

Richmond, Rollin C. (1970). Professor. AB, San Diego State College, 1966; PhD, The Rockefeller Univ., 1971. Evolutionary genetics; genetics of aging.

Rowland, William J. (1971). Associate Professor. BA, Adelphi University, 1965; PhD, State Univ. of New York, Stony Brook, 1970. Causation and function of social behaviors in fish and other lower vertebrates.

Ruesink, Albert (1967). Professor. BA, U. of Michigan, 1962; MA, Harvard Univ., 1965; PhD, 1966. Phenomena occurring at the plasma membrane-cell wall interface of higher plant cells.

San Pietro, Anthony (1968). Distinguished Professor of Plant Biochemistry. BA, New York Univ., 1942; Certificate (ASTP), Penn. State, 1944; PhD, Columbia Univ., 1951. Photosynthetic electron transport & phosphorylation; biosolar energy conversion; biosaline research.

Schwartz, Drew (1964). Professor. BS, Penn. State, 1942; MA, Columbia Univ., 1948; PhD, 1950. Maize genetics; analysis of gene regulation.

Shalucha, Barbara (1947). Associate Professor. PhB, U. of Vermont, 1937; MS, 1938; PhD, The Ohio State Univ., 1947. Horticulture: Director of Hilltop Gardens.

Sinclair, John H. (1968). Associate Professor. BS, The Texas A & M Univ. System, 1958; MS, 1959; PhD, U. of Chicago, 1966. Cell and molecular biology. Mitochondria biogenesis in higher plants.

Sojka, Gary A. (1967). Professor. BA, Coe College, 1962; MS, Purdue Univ., 1966; PhD, 1967. Carbon metabolism in photosynthetic bacteria.

Surzycki, Stefan J. (1975). Associate Professor. MA, Odessa University (USSR); 1960; PhD, Warsaw Univ. (Poland), 1964. Molecular biology and genetics of animal viruses and cell organelles.

Tansey, Michael R. (1971). Associate Professor. BA, UC-Berkeley, 1965; PhD, 1970. Biology of thermophilic fungi.

Taylor, Milton W. (1967). Professor. BS, Cornell Univ., 1961; PhD, Stanford Univ., 1966. Molecular genetics of eucaryotic cells and *E. coli*.

Togasaki, Robert K. (1967). Associate Professor. BA, Haverford College, 1956; PhD, Cornell Univ., 1964. Biochemical and genetic analysis of photosynthesis in *Chlamydomonas reinhardtii*.

Watson, Maxine A. (1980). Assistant Professor. BS, Cornell Univ., 1968; MPh, Yale Univ., 1970; PhD, 1974. Regulation of population structure in plants.

Weinberg, Eugene P. (1950). Professor. BS, U. of Chicago, 1942; MS, 1948; PhD, 1950. Roles of specific elements in the resolution of the contest between hosts and microbial parasites.

White, David (1967). Professor. BA, Brandeis Univ., 1958; PhD, 1965. Cell interactions in the myxobacteria.

Whitehead, Donald R. (1967). Professor. BA, Harvard Univ., 1954; MA, 1955; PhD, 1958. Paleoecology, paleolimnology, terrestrial plant ecology.

Williams, Gene R. (1965). Associate Professor. BS, UC-Davis, 1957; MS, 1959; PhD, 1963. Molecular biology: plant biochemistry; physiology, and development.

Young, Frank W. (1949). Professor. BS, U. of Florida, 1938; MS, 1940; PhD, 1942. Systematics, ecological genetics, and ecology of aquatic Coleoptera of North and South America.

Zeller, Frank J. (1957). Professor. BS, U. of Illinois, 1951; MS, 1952; PhD, IU, 1957. Reproductive endocrinology; interactions of hormones from the anterior pituitary gland, hypothalmus, and testes.

Alumni News

Magazines call this column "Where They Are Now." Other alumni publications label it "We Heard From." We are tempted to call it Old News From Old Alumni. *What do you think? There is remarkably little information here, and if you want more published in the next issue you must send details, i.e., position title, names of spouse and children, dogs, cats, tax bracket, etc. We leave it to your good taste.*

1928

Dr. and Mrs. **Clyde G. Culbertson**, (Medicine), Columbus, IN

1934

Max Ganz, MD, (Medicine), Marion, IN

1939

Jean (Robinson) Vail, (Botany), Michigan City, IN

1940

Albert P. Blair, PhD, (Zoology), University of Tulsa, Zoology Department, Tulsa, OK

1942

Robert and Harriett Dodd, (Medicine), South Bend, IN

1944

Dorothy I. Lansing, MD, (Zoology), Paoli, PA

Walter Owens, MD, (Zoology), OB-GYN, Bloomington, IN

Eric L. Simmons, PhD, (Zoology), Chicago, IL

1947

Seymour S. Weinblatt, (Zoology), Counsellor-at-Law, Flemington, NJ

George A. Work, (Bacteriology), Mead-Johnson, Inc., Evansville, IN

1948

Jeremiah F. McCarthy, (Zoology), Midland, TX

1949

Jean A. Creek, MD, (Anatomy/Physiology), Bloomington, IN

Reba M. Goodman, PhD, (Biology), Assoc. Prof. of Pathology, Columbia Univ., New York, NY

Warren L. Kilmer, (Anatomy/Physiology), Valparaiso, IN

Ernest R. Sohns, PhD, (Botany), McLean, VA

1950

Berj Antreasian, MD, (Anatomy/Physiology), Internal Medicine, Indianapolis, IN

J.R. Berghoff, MD, (Zoology), Fort Wayne, IN

James Brokaw, (Bacteriology), Dow Chemical Co., Cincinnati, OH

Erich E. Steiner, PhD, (Botany), University of Michigan, Dept. of Biology, Ann Arbor, MI

C.H. Steinmetz, MD, (Zoology), Marathon Oil Company, Findlay, OH

1951

Robert F. Cottrell, MD, (Anatomy/Physiology), Fort Wayne, IN

Martin Dworkin, PhD, (Bacteriology), Prof. of Microbiology, Univ. of Minn., St. Paul, MN

Harry T. Stinson, Jr., PhD, (Botany), Ithaca, NY

1952

Don and Ruth Rudy, (Anatomy/Physiology), Glencoe, MN

Claire and Marilyn Shellabarger, PhD, (Zoology), Bellport, NY

1953

Charlotte J. Avers, PhD, (Botany), Douglass College, New Brunswick, NJ

Lloyd Delman, DDS, PhD, (Bacteriology), Orthodontist & part-time Assoc. Prof., IU Sch. of Dent., Indianapolis, IN

James Smith, (Bacteriology), USDA Food Safety Lab, Philadelphia, PA

1954

Gerald J. Kurlander, MD, (Anatomy/Physiology), Indianapolis, IN

1955

Harold A. Cohen, MD, (Anatomy/Physiology), Hollywood, FL

Roderick H. Turner, MD, (Anatomy/Physiology), Boston, MA

1956

Medney E. Tardy, Jr., MD, (Zoology), Orthopedic Surgeon, Oak Park, IL

1957

Rodney Hamilton, MA, (Bacteriology), Quaker Oats Company, Barrington, IL

Janet Hibner, (Bacteriology), Indiana State Representative, Richmond, IN

1958

Stanley Koscielski, DO, (Zoology), South Bend, IN

James P. Mitchell, MD, (Zoology), Anesthesiologist, Bloomington, Hospital, Bloomington, IN

Jeanne Stove Poindexter, PhD, (Bacteriology), Pub. Hlth. Res. Inst. of NY, New York, NY

1959

Donald Burton, (Botany), I.U., Department of Biology, Bloomington, IN

Dana Gallo, (Bacteriology), Virologist, Calif. State Dept. of Health, San Francisco, CA

Betty H. Hayakawa, (Bacteriology), Med. Technologist, UCLA Sch. of Med., Torrance, CA

William K. McGarvey, MD, (Anatomy/Physiology), Carmel, IN

George W. Sorrells, MD, (Anatomy/Physiology), Mitchell, IN

1960

D. Dean Cofield, MD, (Medical Sciences), Diseases of the Eye, Bloomington, IN

Robert E. Duncan, (Medical Sciences), Jacksonville, FL

J. Eugene Fox, PhD, (Botany), Danville, CA

Robert E. Moon, MA, (Bacteriology), Pres., Hosp. Lab. Dev., Plantation, FL

Ralph M. Morrison, PhD, (Botany), U.N.C., Dept. of Biology, Greensboro, NC

Charles J. Pfau, PhD, (Bacteriology), Chairman, Rensselaer Polytech. Inst., Dept. of Biology, Troy, NY

1961

John Feldman, (Bacteriology), Minneapolis, MN

Scott Ramsey, PhD, (Bacteriology), Corning Glass Works, Corning, NY

Biology Alumni Newsletter

The Biology Alumni Newsletter is published annually by the Indiana University Department of Biology and the College of Arts and Sciences Graduate School Alumni Association in cooperation with the IU Alumni Association to further alumni interest in and support of Indiana University.

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Editors ..... Susan Green
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_____ $20 Single Annual
_____ $20 Family
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Name _____

Address _____

City _____ State _____ Zip _____

Please return this form and your remittance to the IU Alumni Association, M-17 Indiana Memorial Union, Bloomington, Indiana 47405.

Alumni News

1963

Morris U. McKee, (Zoology), Optometrist, U.S. Army, Panama

Patricia R. Robertson, MA, (Bacteriology), Acupuncturist, Goleta, CA

1964

James R. Coleman, PhD, (Botany), Universidade Estadual Paulista, Sao Paulo, Brazil

Donald A. Dian, MD, (Bacteriology), Bluffton, IN

William Eshbaugh, PhD, (Botany), Program Director, Systematic Biology, N.S.F., Washington, DC

Phillip D. Godsey, MD, (Medical Sciences), Radiologist, Fort Wayne, IN

Albert B. Hearld, MA, (Zoology), Dayton, OH

Norman Pace, PhD, (Bacteriology), Univ. of Colorado Med. Cntr., Nat'l Jewish Hosp. & Res. Cntr., Denver, CO

Faith Polay Russ, (Bacteriology), Interior Decorator, Chicago, IL

1965

Stephen D. Allen, MD, (Bacteriology), Assoc. Prof. of Pathology, Assoc. Dir., IU Med. Cntr., Div. of Clinical Microbiology, Indianapolis, IN

Daniel R. Pavelich, (Zoology), Owner, Pancho's Villa Restaurant, Bloomington, IN

Lou Klingele Worland, (Biology), Medford, OR

1966

Pat and S. Kent Brown, (Bacteriology), IBM, Poughkeepsie, NY

William M. Gilkison, MD, (Medical Sciences), Indianapolis, IN

1967

Paul D. Baker, MD, (Zoology), Ossian, IN

Gary Husted, (Microbiology), Univ. of Vermont, Micro./Biochemistry Dept., Burlington, VT

Thomas J. Leonard, PhD, (Botany), Univ. of Wisconsin, Madison, WI

Dorothy A. Stroup, PhD, (Botany), Washington, D.C.

Charles F. Thompson, PhD, (Zoology), Bloomington, IN

1968

Judith A. Dilts, PhD, (Zoology), Liberty, MO

Hud Freeze, PhD, (Microbiology), San Diego, CA

Richard L. Shepherd, MD, (Zoology), Oak Park, IL

1969

Richard and Jessica Barrett, (Zoology), Castro Village, CA

Abraham Hsie, PhD, (Microbiology), Oak Ridge Nat'l Lab., Biology Dept., Oak Ridge, TN

Nancy Lamm, (Microbiology), Indianapolis, IN

1970

James Hallagan, (Biology), Microbiologist, Bloomington Hospital, Bloomington, IN

Stanley R. Hamilton, (Zoology), Assist. Prof. of Pathology, Johns Hopkins Sch. of Med., Baltimore, MD

Steven Kafoure, (Biology), Financial Planning, San Diego, CA

J. Daniel Kubley, MD, (Zoology), Plymouth, IN

Gregory D. Mathew, MD, (Zoology), Private Practice, Auburn, NY

Joseph Greg Zeikus, PhD, (Microbiology), Univ. of Wisc., Dept. of Bact., Madison, WI

Joseph W. Zilinsky, PhD, (Microbiology), Univ. of Wisc.-Oshkosh, Dept. of Bio., Oshkosh, WI

1971

Jack C. Blackstone, Jr., MD, (Zoology), Owensboro, KY

Chris Botos, (Biology), Arlington, ME

Sandra (Yankwich) Capps, (Biology) Burroughs Wellcome Co., Greenville, NC

Kathleen Hain, MD, (Microbiology), Upland, Ca

Philip J. Kline, MD, (Biology), Evansville, IN

Jane (Morrison) Krauhs, MA, (Zoology), Space Scientist, Northrop Serv., Inc., League City, TX

Michael H. Schatzlein, MD, (Biology), Surgeon, Fort Wayne, IN

Patricia R. Tate, MD, (Biology), New Albany, MD

Carol S. Thompson, (Zoology), Indianapolis, IN

1972

Bruce Chaille, DVM, (Biology), Anderson, IN

Jeffrey Davidson, PhD, (Biology), Univ. of Colorado Med. Sch., Eleanor Roosevelt Inst. for Cancer Res., Denver, CO

Linda (Larson) Landin, MD, (Biology), St. Vincent's Hosp., Internal Med., Indianapolis, IN

Ronald Landin, MD, (Biology), Cardiologist, St. Vincent's Hosp., Indianapolis, IN

James New, (Biology), PhD candidate, Univ. of Notre Dame, South Bend, IN

Thomas Peck, MD, (Biology), Family Practice, Moorefield, WV

Jeanne Stangle, MD, (Biology), Diagnostic Radiology, Slidell, LA

Cary G. Stolar, MD, (Biology), Radiology, Edina, MN

William G. Trolley, DDS, (Biology), Rochester, NY

Richard Weiss, PhD, (Microbiology), San Diego State Univ., Dept. of Bio., San Diego, CA

Larry R. Yoder, PhD, (Plant Sciences), Dir., Goshen Coll., Env. Learning Cntr., Goshen, IN

1973

C. Martin Bunke, MD, (Biology), Res. Fellow, Hypertension/Clinical Pharm., Board Certified in Nephrology, White Plains, NY

John Cornwell, (Biology), Pres., Scientific Prod., Lake Bluff, IL

Timothy E. Davis, MD, (Biology), Elkhart, IN

Florence Harrod Gardner, PhD, (Biology), Asst. Prof. Life Sciences, U. of Texas of Permian Basin, Odessa, TX

Philip Gardner, DDS, (Biology), Fort Wayne, IN

R. Daniel Grossman, MD, (Biology), Diseases and Surgery of the Eye, Bloomington, IN

David Holajter, MD, (Biology), Psychiatric Practice, Evansville, IN

James J. Holloway, MD, (Biology), Postdoc Fellow, Johns Hopkins Sch. of Med., Baltimore, MD

Christine (Hill) Holtz, (Biology), EPA, R & D, Annapolis, MD

Gary Keck, MA, (Microbiology), Microbiologist, Bloomington Hospital, Bloomington, IN

Peter Mars, (Biology), Guadalajara School of Medicine, Mexico

Carin M. Olson, MD, (Biology), Assist. Prof. of Emer. Med., Upstate Med. Cntr., Syracuse, NY

Gordon Siegel, (Biology), student, The Chicago Medical School, Chicago, IL

Craig Urban, MD, (Biology), Abilene. TX

Susan Vuke, (Biology), Montana Bureau of Mines and Geology, Butte, MT

Karen (Bowyer) Webb, MD, (Biology), St. Louis, Mo.

1974

David Dopp, (Biology), Options Market, N.Y.C., Dover, N.H.

Steven W. Dyer, (Microbiology), Loveland, OH

Jeffrey M. Hoeg, MD, (Biology), NIH, Research in cholestrol biosynthesis, Rockville, MD.

Valerie (Pascuzzi) Jackson, MD, (Biology), Assist. Prof. of Radiology, IU Sch. of Med., Indianapolis, IN

James Laughlin, MD, (Biology), Pediatrician, Bloomington, IN

Robert Leff, MD, (Biology), Rheumatologist and Prof., Duluth, MN

Richard M. Levine, MD, (Biology), Bethesda, MD

Cora E. Musial, (Microbiology), PhD candidate, Univ. of Arizona, Tucson, AZ

Michael Orlowski, PhD, (Microbiology), Assoc. Prof. of Micro., Louisiana St. Univ., Baton Rouge, LA

Richard T. Root, (Microbiology), DuPont Inc., Wilmington, DE

Rob Steele, PhD, (Biology), Fred Hutchinson Cancer Res. Cntr., Seattle, WA

David Tabereaux, DDS, (Biology), Practicing Dentistry, Bloomington, IN

Ralph A. Matacale, (Biology, MAT 1980), Univ. of Texas Dental Sch., Houston, TX

1975

Barry Aprison, PhD, (Biology), Brandeis Univ. Dept. of Biology, Waltham, MA

Robert Brateman, MD, (Biology), Family Practice, Southfield, MI

Karl Deluga, MD, (Biology), Ann Arbor, MI

John Fifer, (Biology), PhD candidate, Colorado State Univ., Fort Collins, CO

William C. Graffeo, MD, (Biology), Chicago, IL

James A. Kindraka, (Microbiology), Microbiologist, Joseph Schlitz Brewing Co., Milwaukee, WI

Tom Misko, (Biology), PhD candidate, Johns Hopkins, Baltimore, MD

Rob Plunkett, MD, (Biology), Nashville, TN

Jay M. Spector, MD, (Biology), Private practice, Stansburg Park, UT

Mark Wise, (Biology), Eli Lilly, Indianapolis, IN

Susan Yount, (Biology), Shell Oil Company, Traverse City, MI

Alumni News

1976

Susan Brokaw, MD, (Biology), Pathologist, Detroit, MI

Mark R. Failla, PhD, (Microbiology), VPI, Dept. of Biochemistry, Blacksburg, Va

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