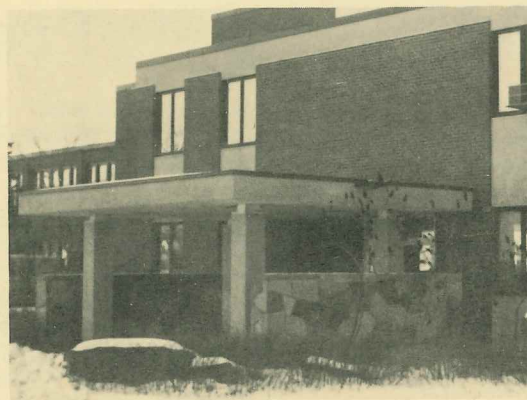


the  
**Life Scientist**

*UMD Biology Department News*



Dear Biology Alumni and Friends:

There have been several changes in the Biology Department, many of them associated with the recent turnover of faculty. As of Fall, 1986, we have 4 new faculty members; Dr. Anne Hershey (Aquatic Entomology), Dr. Randy Hicks (Microbial Ecology), Dr. Andy Klemer (Algal Physiology), and myself (Aquatic Ecology). With the new faculty came renovations to research laboratories and the Biology Office complex. In spite of the newfaces and the changes in some of the rooms, you would still recognize many of the "old" faculty (see page 2 & 3), and Phyllis Jensen remains a stabilizing influence as Departmental Executive Secretary.

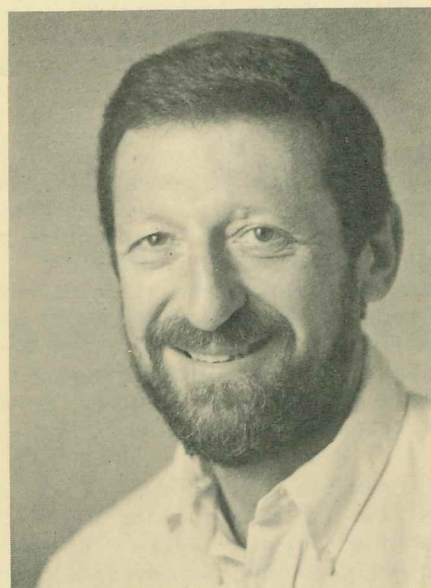
Our students are interesting, interested and active. The Biology Club has had several activities this year including trips to the Lake Itasca Biological Station and to Chicago. The graduate students continue to amaze me; they continue to have time for teaching, research, and numerous social occasions.

In the near future the Biology Department will be hosting several meetings. Linda Holmstrand is organizing the Fall meeting of the Lake Superior Biological Conference, while Hollie Collins will be organizing a meeting of the International Association for Great Lakes Research. John Carlson is organizing the 1st Jack Hargis Memorial Lecture--details of that event are on page 3.

I want to thank all who were able to give to the Biology Department Alumni Fund. For those of you who are unaware, it is possible to contribute to either the Jack Hargis Lecture fund, or a general fund created to enhance the educational experience of our undergraduate and graduate students. Contributions to either fund are most welcome, as these funds allow us the means to do something "extra" for UMD--Biology.

This newsletter is one of our first attempts to re-establish and maintain contact with our former students and friends of the Biology Department. We hope you enjoy reading about old friends, and teachers. Please keep us up-to-date on your activities, moves, marriages, etc. Send information to "Newsletter," care of Helen Hanten, UMD Biology.

*M. C. Whiteside*



MELBOURNE C. WHITESIDE PhD  
 Biology Department Head  
 Indiana University 1968

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# Present Faculty

**GEORGE AHLGREN**, Associate Professor: Dr. Ahlgren teaches General Biology, Plant Physiology, and on occasions, Biology and Society. He is also the director of graduate studies, and is involved in developing a teaching assistant training program. He has recently become interested in plant tissue culture techniques. George says they don't heat the sauna as often in the winter any more, but always on Saturday night. Stop by--everyone welcome. They even provide towels.

**JOHN B. CARLSON**, Professor: Since he joined the Faculty in 1954, Dr. Carlson remains enthusiastic about teaching, advising and interacting with students. Current teaching activities includes Nonvascular and Vascular Plant Morphology, Plant Anatomy and General Biology. He recently wrote two chapters on Soybeans which will appear in the Agronomy Society Monograph Series on Soybean Technology. He is looking forward to retirement within the next few years to take time 'to smell the roses'.

**DON CHRISTIAN**, Associate Professor: Don Christian has continued his work on small mammals. He recently completed a three-year research project on the physiological ecology of sodium balance in meadow voles. Future plans include hoping to return to working on water balance problems in desert rodents, and work on comparative sodium balance physiology in large- and small-bodied herbivorous mammals. He is in the second year of a four-year term as Associate Editor of the Journal of Mammalogy.

**HOLLIE L. COLLINS**, Professor: Dr. Collins teaches animal behavior, ichthyology and laboratories in general ecology, and is the advisor to Pre-fish and wildlife majors. His recent and current research activities center on the biology and culture of the bait leech and on Lake Superior Salmon/trout diets and predator/prey dynamics. He continues to direct graduate students and undergraduate research projects in the areas of his interests.

**CONRAD E. FIRLING**, Associate Professor of Biology and Anatomy: Dr. Firling teaches in the General Biology sequence and advanced courses in the area of development, including: Vertebrate Embryology, Developmental Physiology. Previous research included studies of the hormonal control of gene expression in polytenic tissues maintained in vitro, and the influence of low pH environmental water upon the hematology, blood chemistry, and hormone levels of laboratory cultured fish. He is currently investigating the possible toxicity of aluminum on skeletal system and nervous system development in the chick embryo.

**HELEN HANTEN**, Assistant Professor: Helen teaches in general courses and the medical microbiology course. Past research has included study of wild rice, and intensive home gardening methods.

**STEPHEN HEDMAN**, Associate Professor of Biology and Biochemistry: Dr. Hedman teaches courses in introductory biology, principles of genetics, and advanced genetics, and he also lectures to first year medical students. Along with assistance from the Department of Medical Microbiology, he is developing a new course dealing with bacterial genetics and recombinant DNA technology. Research currently involves genetic and biochemical impacts of acid rain upon fish.

**ANNE HERSHEY**, Assistant Professor: Dr. Hershey's research is directed toward determining the importance of benthic processes and benthic-pelagic interactions in controlling aquatic communities. Her efforts have focused on cold-adapted aquatic ecosystems, particularly on the North Slope of Arctic Alaska. She is currently developing research programs on benthic-pelagic coupling in Lake Superior and on the effects of ice dynamics in controlling North Shore stream communities.

**RANDALL E. HICKS**, Assistant Professor: Dr. Hicks is an aquatic microbial ecologist and the newest member of our faculty. His research centers around biodegradation by microorganisms, production and fate of extracellular polymers, and ecotoxicology. He spent two years as a Postdoctoral Fellow in the Chemistry Department at Woods Hole Oceanographic institution on Cape Cod, Mass. In September, Randy came to the UMD Biology Department from the Illinois Natural History Survey where he was an Assistant Scientist.

**LINDA HOLMSTRAND**, Associate Professor: Linda has been a department faculty member since 1962. She still enjoys teaching large classes in General Biology and Human Anatomy, and her favorite course is Natural History of Invertebrates, a spring quarter field course. Her research has focused on the biology and ecology of the bait leech, Nephilopsis obscura, and her work together with Dr. H. Collins has received funding from the Minnesota Sea Grant Institute and Natural Resources Institute.

**ANDREW KELEMER**, Associate Professor: Andy came to UMD in 1985 from Suny, Purchase, N.Y. He teaches in the area of aquatic ecology and his research centers on ecology and physiology of phytoplankton.

**PAUL MONSON**, Professor: Flowering plants continue to be a primary focus with recent activity ranging from preparation of floristic studies (Voyageur National Park) to participation in the "Study in England" program (Birmingham, Fall, 1986). From the intimidating buzz of mosquitoes and deer flies on the shores of Lake Kabetogama to the romance of H.M. Royal Marine Band on the Mall at Kew Gardens, England in less than three months! And all of this under the umbrella of flowering plants!

## Faculty

DAVE SCHIMPF, Associate Professor: His teaching of General Ecology for seven years has given Dr. Schimpf the foundation for a textbook on that subject. He is now writing it while on sabbatical. During that same time span seven students finished M.S. degrees, educating themselves and their advisor about a tremendous variety of topics in plant ecology. He also teaches plant Ecology, an advanced ecology, and a new desert ecology in which he and Don Christian accompany students on a field trip to Death Valley in March.

LYLE SHANNON - Research Fellow: Although most of his time has been spent on research the last few years, Lyle has been able to teach a few courses and move closer toward his goal of having taught every course in the department! On the research front, he is continuing an EPA sponsored work on assessment of community and ecosystem level toxicology. He is currently running a series of experiments using aquatic microcosms to predict the fate and effects of microbial pest control agents (eg. Bacillus thuringiensis) and genetically engineered microorganisms released into aquatic systems.

MEL WHITESIDE, Professor and Head: Mel came to UMD in 1985 after 13 years in Tennessee. He has done research on lakes in the Lake Itasca region since 1970.

This winter he will be traveling to an international congress of limnology (SIL), in New Zealand. He has organized a special session, "Interactions Between Larval Fish and Zooplankton." Almost immediately upon return from New Zealand he will be heading south to the Florida keys. He is giving a class that is a mini-version of Professor Krogstad's, Coral Studies. He hopes to recover from all this travel by May, when again he will be starting a research season at Lake Itasca.

## Staff

Phyllis Jensen, Account Supervisor, has been the head secretary in Biology since 1972. She enjoys the recently remodeled offices with modern computers and a copy machine.

Michelle Simon, a grad student in psychology has been the other secretary for one year.

Bette McNamara, Lab Services Coordinator, is a UMD Biology alumna and has been with the department since 1980.

Deborah Shubat, also a UMD graduate, has an MS in horticulture from St. Paul. Since the opening of the new UMD greenhouse two years ago she has been in charge of operating both greenhouses.

Mike King, Laboratory Technician, works in Dr. Whiteside's research lab.

## Former Faculty and Staff

Dr. Theron O. Odlug, Professor Emeritus, retired in 1978 after 31 years at UMD, most of them as Head. He is very active as a community volunteer. 102 E. Wabasha; Duluth, MN 55803.

Dr. Blanchard O. Krogstad, Professor Emeritus, retired in 1984 as Professor and Head. He is making his home at a family farm in northwest Minnesota. Rte 1; Winger, MN 56592.

Dr. Pershing J. Hofslund, Professor Emeritus, retired in 1982 after 33 years. Since retirement he has traveled extensively in Africa and Europe. 4726 Jay St.; Duluth, MN 55804.

Walter Fluegel (1965-85) is a free-lance videographer, working with real estate agents. 1300 N.E. Sixth Street. Minneapolis, MN 55413.

Dr. Francie Cuthbert, (1981-85) is an Assistant Professor in the Dept. of Fisheries and Wildlife, U of M., 200 Hodson Hall; St. Paul, MN 55108.

Bonnie J. Dinehart (1968-77) is a horticulture instructor at DAVTI. 25 Komoko Rd. Carlton, MN.

Dr. Jim Winter is the Director of Sponsored Research; SUNY, Fredonia, New York.

Kara Wikstrom Jacobs (secretary 1980-84) is at HAHN Air Base, Germany. PSC 1033, APO NY 09109.

## Jack R. Hargis

### Lecture

### in Biology

Dr. Jack R. Hargis, 34 Assoc. Prof. of Biology Died March 31, 1984.

He had been on our faculty since 1977 and had done extensive research on acid rain and fish populations in the Duluth-Superior harbor and on the lakes of Voyageur National Park. He was a member of the Federal Acid Rain Task Force, Board of directors of the Lake Superior Basins Study Center, and advisory board for the WLSSD. He was an excellent teacher who was highly thought of by his students. Dr. Hargis received his MS in wild-life biology and his Ph.D. in zoology from Washington State University.

In recognition of the contributions he made in all areas within the University --teaching, research, service-- the University has established a Jack R. Hargis Lecture in Biology series. We are pleased that the first lecture of the series will be by Jack's Ph.D. adviser, Dr. Richard A. Parker, Prof. of Zoology and Computer Science, Washington State Univ. on April 24, 1987. We hope that many of you can attend.

This series is supported by gifts from alumni and friends. Any who wish to contribute to this fund, or to undesignated support of the department are urged to do so.



# Graduate Studies

## Research and Activities

The Department of Biology offers graduate study leading to the Master of Science degree with or without thesis. PLAN A - This program is research-oriented and recommended for those who wish to major in some specific aspect of biology (Botany, Zoology, Environmental Biology or Cellular and Physiological Biology). In addition to the major, requirements include course work in a minor or related field and a thesis.

PLAN B - This program is designed for those wishing a broad background in a variety of biological subjects. Requirements include course work in biology and in a minor or related field(s). One or more Plan B projects must also be completed.

Graduate teaching and research assistantships are available, generally on a nine-month basis, and the current stipend for a 0.5 FTE is \$7680. Graduate assistants with appointments of at least 25% receive Scholarships equal to twice the percentage of their appointments. A 0.5 FTE, then, receives 100 percent Tuition Scholarship. Applications for these positions should be received by March 1, although applications received after this date will be considered for any available vacancies. University-wide graduate fellowships and scholarships are available on a competitive basis.

For further information and application forms, write to:

University of Minnesota, Duluth  
Dr. George Ahlgren  
Director of Graduate Studies  
Department of Biology  
10 University Drive  
Duluth, MN 55812-2496

### 1986 Master of Science Degrees

JANSSEN, DAVID  
KELLY, JULIA  
McKEARNAN, JOAN  
OLSON, DENNIS  
PILLSBURY, ROBERT  
SUBRA, RICHARD  
WIENS, TERRY

### 1986-87 Teaching Assistants

BAUMGARDT, LONNIE  
ERICKSON, JACK  
HARTH, CAL  
HATTEN, BONNIE  
HAUT, CRAIG  
ROTHSTEIN, ARLENE  
SCHMIDT, GREG  
SCHULDT, JEFF  
MERRICK, GLENN

Biology Graduate Students are having a busy and productive year with research activity as well as course work, and in some cases, teaching. Margaret Thomas has just completed work showing that low pH is associated with chromosomal changes in selected cells of fathead minnows. The work has been presented as a Biology seminar, and at EPA. Arlene Rothstein presented a poster on osprey foraging behavior at the Raptor Research Foundation meeting in Gainesville, FL, and will present the poster at the Sigma Xi showing here. Jack Erickson is attempting to develop a method for estimating population size of bait leeches which may be useful in commercial production. Glenn Merrick is analyzing data collected on an arctic trout introduction experiment, doing both trout diet analysis and studying the effects of trout predation on snails. Craig Haut's work tests the effect of aluminum on the nervous system of 6 day chick embryos. Terry Flum is studying the effects of 3 related amides on microecosystem stability. After 8 years of teaching science in McGregor schools, Lonnie Baumgardt is here as a grad student, TA and Residence Halls counselor, and taking courses in both biology and education. Bonnie Hatten is one of the new grad students and TAs this year. Her research will be in the area of cell biology or genetics.

A number of grad students are working on problems involving small mammals: Mark Hermeling is comparing microhabitats on two species of *Peromyscus* (deer mice) after 3 summers of trapping activity. Meg Shaughnessy is studying sodium balance in the meadow vole, while Tom Manning is studying comparative physiology of sodium stress in 3 species of small mammals. Tom attended the Am. Soc. of Mammalogists' meeting in Madison last summer and will be a presenter at the MN Academy of Science. Jeanne Daniels, a research assistant, starting studies of small mammals, after three years of teaching, and summer work with the MN Park Service. Greg Schmidt will be doing his work on water balance in desert mammals.

Among those working in aquatic biology are Jeff Schuldt who studies feeding rates of larval fish in Lake Itasca, and Cal Harth who works with thermal habitat partitioning among western Lake Superior forage fish species. Ken Palar taught Biol 1109 in CEE this year while continuing his thesis writing on effects of environmental water acidification on plasma estradiol-17B in the female fathead minnow. Dave Conner has done a 3 year analysis of diets of trout and salmon in western Lake Superior and has presented papers at the Lake Superior Biological Conference and the International Assn. for Great Lakes Research in Toronto, May 1986.

John Krenz is taking this year off from grad studies, and is teaching in Africa after extensive travel in the Orient. Krenz: LUSAKA (ID) (DOS) Washington, D.C. 20520.

UPDATE: Kriste Ericsson has joined the Peace Corps and will be doing a taxonomic botanical inventory for a national history museum in Paraguay. Address: Peace Corps, %U.S. Embassy; Asuncion, Paraguay.

# Former Grad Students

## NEWS AND ADDRESSES

- ANDERSON, BETH: 80-84. Membership Division of National Wildflower Research Center, Austin, TX. 3303 Cherrywood; Austin, TX 78722.
- COLVIN, STEVE: 78-81. MDNR, Ecological Services section. Getting used to city life. Daughter started school this year. Box 25, 500 Lafayette Rd; St. Paul MN 55146.
- DAVIS, THOMAS: 73-77. Biological consultant to MN and Wisc. DNRs. Also, message therapist. Winters in New Mexico. 6484 Eagle Lake Rd; Duluth, MN 55803
- EKECHUKWU, PETER. Working on PhD in agriculture, plant breeding and genetics. Has a new son, Obinna Curtis, born Sept. 24. 151 S. Resler, Apt 165; El Paso, TX 79912.
- ENGSTROM, DANIEL: BA 71, MS 75, PhD (Minnesota) 83. Research associate, Limnological Research Center, Dept. Geol and Geophysics, U of MN, 4705 37 St.E; Mpls MN 55406.
- ERICSSON, KRISTE: 80-84. Principal laboratory technician, Dept. Plant Path, U MN. 1768 Laurel Ave.; St. Paul, MN 55104.
- FARRELL, BARBARA: 80-82. Fourth year Veterinary School, U of MN. 2124 Como Ave, Apt #102; St. Paul, MN 55108.
- GAVRE, JOHN: 77-80. Chemist for City of Milwaukee waterworks. Working on civil engineering degree from UW. 3035 S. Superior St.; Milwaukee, WI 53207.
- HANOWSKI, JOANN: BS 79, MS 82. Avian ecologist, NRRI. 715 N 65th Ave W; Duluth, MN.
- JANSSEN, DAVID: 82-85. Child counselor at Northwood Children's Home. Expecting child Dec. 86. 2114 Woodland Ave.; Duluth, MN 55811.
- KREEGER, TERRY: MS 77, DVM 84. Presently PhD student in Dept. Fisheries and Wildlife. Married JULIE SOLIEN : BS 77, DVM 81. One son. 1956 Jenkins St. NE; Cedar, MN 55011.
- KRUPP, ANLEE H.: 76-79. Staff scientist at Duracell Research Center. Married, one son. 76 Oakland St; Stoughton, MA 02072; After Feb: 34 Sandy Ridge Cr.; Sharon, MA 02067.
- LAMEY, TIM: 81-84. Doctoral candidate in zoology. Studying penguins on island off New Zealand. Dept. of Zoology, U of Oklahoma; Norman, OK 73019.
- LOUIS, MEI-YAO: Continuing research and field work. 500 7th St. SE #3; Mpls. MN 55414.
- MARGO, DAN: Completing requirements for MS and currently first year Med student, UMD. 722 N 18th Ave E.; Duluth, MN 55812.
- MCKEARNAN, JOAN: 82-85. PhD student. Research on nest site selection in Least Terns. Appalachian Environmental Lab. Gunter Hall-FSC; Frostburg, MD 21532.
- MIDDLETON, BETH: 81-83. Research botanist in national park in India as part of PhD program, Iowa State. 139 Botany Dept., Iowa State U.; Ames, Iowa 50011.
- NIEMI, GERALD J.: BS 74, MS 77, PhD 83 Florida State. Scientist and environmental biologist, NRRI. Married, 2 children. 1088 Taft Rd; Duluth, MN 55803.
- NORD, MARY LEE: 74-77. Substitute teacher. 2 Children. 1609 Woodbury Ln; Duluth, MN
- NOYCE, KAREN: 77-80. Wildlife biologist, MDNR. Married, 1 son. Star Route, Box 12; Warba, MN 55793.
- OSGOOD, DICK: 77-79. Limnologist, environmental planner. Married, 2 children. Metropolitan Council; 300 Metro Square Bldg. 7th & Robert; St. Paul, MN 55101.
- PARSONS, SARAH (VANDERSCHMIDT) 80-83. Technical associate in immunology research. 1932 Penfield Rd; Penfield, NY 14625.
- PERRY, TODD: 80-82. Engineer, hazardous waste permits. MN PCA. 8631 3rd Ave. S.; Bloomington, MN 55420.
- QUIGLEY, TOM: BS 74, MS 78. Consultant in exploration geology, Great Lakes Exploration, Inc. Married, 3 sons. 5510 Arnold Rd; Duluth, MN 55803.
- RICHTER, JOSEPH E: 73-78. Missionary in the Philippines, teaching fish farming and training nationals for church leadership. Married with 2 children, and on furlough in MN during pregnancy. After Feb.: Sagada, Mountain Prov. 0608. Philippines.
- SHEEDY, BARBARA RIEDEL: 81-84. Medical research, UMD Med School and AQUIRE aquatic toxicity data base, EPA Duluth. 1317 E. 8th St.; Duluth, MN 55805.
- SPEHAR, ROBERT: BS 71, MS 74. Aquatic biologist, EPA. 25 Elmore Rd; Duluth MN.
- WEBER, THOMAS: MS 80. Biologist in stream and reservoir monitoring in eastern Texas. Married, 1 son. 2923 Birdwell Dr.; Tyler, TX 75701.
- WIENS, TERRY: BA 79, MS 86. Wildlife biologist. Married in 1986 to THERESA HORNSTEIN, also UMD Biology grad student. 1912 E. 3rd St. Apt #3; Duluth MN 55812.

# Biology Club News

The Biology Club began its yearly activities with a retreat to the U of M Biological Station at Lake Itasca. Dr. Whiteside who teaches and does research at the station in the summer arranged to have us stay in the faculty housing accommodations while we were there (housing that was better than most of our apartments). The retreat was well attended by about 15 undergrads, 3 grads (Meg Shaughnessy, Tom Manning & Terry Flum) and 2 faculty, Dr. Whiteside and Dr. Klemer.

There were two major organized activities. Dr. Klemer led an aquatic trip to do some general limnological studies which included making lake profiles. Dr. Whiteside led a terrestrial tour of the research station and surrounding area. The trip was also a social affair with plenty of unstructured time for hiking, talking, and just having fun. The trip was an unqualified success and there is talk of making it an annual event.

The next major event will be a trip to Chicago over Christmas break. Plans have been made to go down from Dec. 31 to Jan. 4 to visit the Field Museum of Natural History, The Museum of Science and Industry, the John G. Shedd Aquarium, and the Alder Planetarium among other highlights in the Windy City. It appears that we will have about 15 undergrads and a couple of grads participating. We are currently raising money for the trip with

the old reliable plant sale in Kirby. Earlier in the year we had a doughnut sale that was successful in bolstering our check account.

Keather McLoone is our president this year, with Jean O'bretsky as V.P., Russ Rizzo is the secretary, Sheryl Bail is the treasurer, and Rich Sundell and Pat Collins are sharing duties as department representative.

Pat Collins

## T. O. ODLAUG AWARDS

The Theron O. Odlaug award is presented to students selected by the faculty, in recognition of scholarship and service to the Biology department. Past recipients of this award have been:

- 1979 - JoAnne Hanowski and Rolf Larson
- 1980 - Terri Nord
- 1981 - Marlaine Ege
- 1982 - David Israel
- 1983 - None awarded
- 1984 - Kelly Jewett and Elsa Nisswandt
- 1985 - Calvin J. Harth
- 1986 - Brent Bushnell

## Student Employees

Bushnell, Brent	Penning, William
Eng, Brenda	Phillips, Christine
Erickson, Benard	Sampson, Bary
Frey, Mark	Schnitzer, Ranae
Frobom, Carolyn	Stottler, Lynn
McLoone, Keather	Voldseth, Richard

# Congratulations 1986 Graduates!

## BACHELOR OF SCIENCE

ALIAS, ROSLINAH  
ALSPACH-BUCK, KINNAN  
ALSPACH, MATTHEW  
ANDERSON, MARK  
BONIFACE, DAVID  
CLYNCH, PAUL  
CRANDALL, WILLIAM  
COLLINS, PATRICK  
CZACHOR, CARMEN  
DRASKOVICH, ANNETTE  
ELLINGSEN, LISA  
FERKUL, DAVID  
FITZSIMMONS, DANIEL  
FOY, TERESA  
HUNT, VICKI  
JARVIS, KARI  
JOHNSON, KRIS  
LANGE, TRACI  
LEE, EE-FOO  
LEUER, KRISTINE  
LINDSTROM, MARK  
MACKINAW, TODD MICHAEL  
McCLELLAN, MARK  
McGINN, BRENT  
MICHELSON, PAUL  
MIELKE, GREGORY WAYNE  
MILLER, MICHAEL  
NELSON, PAMELA  
OAK, STEVEN  
OLSON, LAWRENCE  
OLSON, STEVEN  
PETERSON, CHARLES

## BACHELOR OF ARTS

FISHER, GARY  
HATTEN, BONNIE  
RUE, STEVEN  
RUPPEL, DAVID  
TREBESCH, DEBRA  
TUMPEY, TERRENCE  
ZIEGENHAGEN, TERRY  
  
BAS (TEACHING  
LIFE SCIENCE)  
  
ATKINSON, DEBORAH  
BIRON, MARK  
NELSON, ROGER  
SCHMIDT, GREGORY  
SCHOW, RAYMOND

Dr. Stephen C. Hedman, Associate Professor of Biology received the Jean G. Blehart Distinguished Teaching Award for 1986. This award is presented each year to a full-time UMD faculty member who has demonstrated excellence in the following categories:

- Teaching and Advising
- Academic Program Development, and
- Educational leadership.

Nominees for the award were notified and asked to provide a statement of their educational philosophy and teaching methods and submit letters of support from students and colleagues. The academic department of the nominees were asked for endorsement of the nomination and asked to provide documentation regarding the three categories.



## Alumni Notes

ANDERSON, CHRIS: BS 85. Sr. lab tech, U of MN Dept of Epidemiology. 3367 Xylon Ave. N.; New Hope, MN 55427.

AVANT, ROBERT: BA 59. Physician. Professor and chairman dep't of family medicine, Mayo Clinic. Married, 3 sons. 933 Paxton Rd. S.W.; Rochester MN 55902.

BABICH, SUZANNE (NELSON): BS 80. Computer programmer/supervisor. (Looking for job combining background in biology with experience in computer software. Help?) 3697 Kenny Lane; White Bear Lake, MN 55110.

BATTIG, BERNARD J.: BS 82. Toxicologist for Control Data Corp. MS 84 in occupational health and safety. 1930 E. 86 St. #324; Bloomington, MN 55420.

BATTISTI, DUANE: BS 80. Warehouseman, Gateway Foods. Married, 2 children. 6015 London Rd; Duluth, MN 55804.

BEARMAN, DAVID: BA 82. Furniture manufacturer. Married, 1 daughter. 3980 Glenroy Dr.; Memphis, TN 38125.

BECK, JOAN: BA 77. Masters in medical illustration, U Texas. Now owns visual communications company in Mpls. 2521 11th Ave S; Mpls. MN 55404.

BEISE, CATHY: BS 84. Sr. year, UM School of Nursing. Celebrating over 3 yrs. in remission from Hodgkins Disease. 301 Walnut St. SE, Apt 5; Mpls, MN 55414.

BELGUM, DANIEL: BA 82. Plant pathologist (MS Iowa State 86). In agricultural research. Mennonite Central Committee, Box 785, Dhaka, 2 Bangladesh.

BERGERON, BRIAN: BS 78. Physician, starting practice this fall at Mt. Royal Medical Center, Duluth.

BERGSTROM, BILL: BS 70. Pharmaceutical sales rep, Burroughs Wellcome Co. Married, 2 children. 5545 10th Ave So; Mpls, MN 55417.

BERSU, EDWARD T.: BS 68. Assoc. prof of anatomy, U WI. Med School. (Ed sent greetings to the faculty here, and says he has enjoyed having UMD alumni in his classes at the med school there). 3811 Euclid Ave; Madison, WI 53711.

BRION, ANTHONY: BS 86. Working at NSP at Monticello Nuclear Generating Plant. 237 Mississippi Dr.; Monticello, MN 55362.

BROCK, TERESA: BS 83. Researcher at U.C. Davis Tahoe Research Group in Lake Tahoe. Work involves water quality, ecological, limnological and hydrological research. Single. Box 7204; Tahoe City, CA 95730.

CLARK, CAROLYN: BS 82. Technical writer, Biochem Dept. UMD Med School. Married with 3 children. 417 N. 23 Ave E.; Duluth MN 55812

CHANDLER, JIM: BS 79. Last year of residency U Iowa in psychiatry. He and wife JULIE HENDRICKSON are both UMD Med School alumni. 411 Grandview Ct; Iowa City, IA 52240.

CHAPIN, THOMAS: BA 72. Conservation officer, State of MN. Married, 3 daughters. 805 S.E. 6th St.; Grand Rapids, MN 55744.

COLLINS, CHRISTINE: BS 76. Earned PhD in Biochem at Michigan State, 83. Presently a researcher at Worcester Foundation for Experimental Biology. Married. 41-2 Sheridan Dr.; Shrewsbury, MA 01545.

COX, DEAN: BS 79. Analytical chemist at NRRI. Two children. 2732 N. 22 Ave W.; Duluth, MN 55811

CROKE, DAN: BA 1970. Environmental engineer in hazardous waste management, and breeds mutation ranch foxes. Married, 2 children. 1019 Pioneer Junction Rd; Duluth MN 55804.

CROSS, GERALD H.: BA 55. Head, Department of Fisheries and Wildlife Sciences, Virginia Tech.; Blacksburg, VA 24061.

DANIELSON, DENNIS M.: BA 61. Product development coordinator. Chipman Chemical. 3 children. 2127 Memorial Dr.; Janesville, WI 53545.

DANKS, MARILYN: BS 81. Aquatic biology, acid rain, MN DNR. Rt 4, Box 202; Northfield, MN 55057.

DAVY, BARB: BS 82. Environmental analytical chemist at Serco Laboratories. 3525 Ernal Dr.; Shoreview MN 55126.

DEHRING, ANNE (BROWN): BS 78. Faculty assistant in zoology, UW. Master's thesis from Northern (MI) in genetic assessment of lake trout broodstocks via starch gel electrophoresis.

DEJARLAIS, JIM: BA 67. Health and nutrition sales. Married, with 3 children. 835 W. Co Rd F; Shoreview, MN 55126.

DEURMEYER, SALLY PETERSON: BA 73. Speech pathologist for school district. Married (Bryan Deurmeyer, UMD 72), twin girls. 300 Jennifer St; College Station, TX 77840.

DEUTSCH, WAYNE: BS 77. Dentist. Dental Corps, US Navy. Married, 2 children. 9869-3 Caspi Gardens Drive; Santee, CA 92071.

DOOLEY, KEVIN B.: BS 78. Evaluator, U.S. General Accounting Office. 1755 N. Cliff St.; Alexandria, VA 22301.

DOOLEY, PEGGY (VANRYZIN): BA 72. MS from SIU, 74. Country craft designer. Married, 3 sons. Route 3 Box SA-40; Tuttle, OK 73089.

DRASKOVICH, ANNETTE: BS 86. Student UMD Medical School. 1410 Acre St. Apt 307; Duluth, MN.

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Ed. 1 No. 1

Jan. 1987

# Life Scientist

*UMD Biology Department News*

Published by the UMD  
Biology Department  
for communication  
with alumni and friends.

Editor.....Helen Hanten

Assistant...Paul Hanten

Typist...Michelle Simon

Photos.....Ken Moran

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