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 new faces 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.
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 include 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, ichnology 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 Sunny, 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!
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 to 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.

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 alumnus 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.

Dr. Theron O. Olaug, 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. Hoflund, 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 vidographer, 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 DAVITZ. 25 Komoko Rd. Carlton, MN.

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

Kara Wilkstrom 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 WLSAD. He was an excellent teacher who was highly thought of by his students. Dr. Hargis received his MS in wildlife 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.
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

JANSEN, 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
SCHULTZ, JEFF
MERRICK, GLENN

Graduate Studies
Research and Activities

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 smials. Craig Haut's work tests the effect of aluminum on the nervous system of 6 day chick embryos. Terry Plum 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 Hennings is comparing microhabitats on two species of Pammiscus (deer mice) after 3 summers of trapping activity. Neg Shaughnessy is studying sodium balance in the meadow voles, 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 Schult who studies feeding rates of larval fish in Lake Itasca, and Cal Barth 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, ZU. S. Embassy, Asuncion, Paraguay.

4. The Life Scientist
ANDERSON, BETH: 80-84. Membership Division of National Wildflower Research Center, Austin, TX. 3303 Cherrywood; Austin, TX 78722.


DAVIS, THOMAS: 73-77. Biological consultant to MN and Wis. DNRs. Also, message therapist. Winters in New Mexico. 6484 Eagle Lake Rd; Duluth, MN 55803


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.


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, JOANNE: BS 79, MS 82. Avian ecologist, NRII. 715 N 65th Ave W; Duluth, MN.


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.


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.


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, NRII. Married, 2 children. 1088 Taft Rd; Duluth, MN 55803.

NORD, MARY LEE: 74-77. Substitute teacher. 2 Children. 1609 Woodbury Ln; Duluth, MN 55803.

NOYCE, KAREN: 77-80. Wildlife biologist, MDNR. Married, 1 son. Star Route, Box 12; Warba, MN 55793.


Metropolitan Council: 300 Metro Square Bldg. 7th & Robert; St. Paul, MN 55101.

PARSONS, SARAH (VANDERSCHNITZ) 80-83. Technical associate in immunology research. 1932 Penfield Rd; Penfield, NY 14625.


QUIGLEY, TOM: BS 74, MS 78. Consultant in exploration geology, Great Lakes Exploration, Inc. Married, 3 sons. 5510 Arnold Rd; Duluth, MN 55803.


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 Elsmore 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 1985 to THERESA HORNSTEIN, also UMD Biology grad student. 1912 E. 3rd St. Apt #3; Duluth MN 55812.

The Life Scientist 5.
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 grades (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 grad students 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 Ball 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 - Marlaene Ege
1982 - David Israel
1983 - None awarded
1984 - Kelly Jewett and Elsa Nisswandt
1985 - Calvin J. Harth
1986 - Brent Bushnell

Student Employees

Bushnell, Brent
Eng, Brenda
Erickson, Benard
Frey, Mark
Frohomb, Carolyn
McLoone, Keather
Penning, William
Phillips, Christine
Sampson, Barry
Schnitzer, Ranae
Stottler, Lynn
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
ELLINGSSEN, LISA
FERKUL, DAVID
FITZSIMMONS, DANIEL
FOY, TERESA
HUNT, VICKI
JARVIS, KARI
JOHNSON, KRI
LANGE, TRACI
LEE, EE-FOO
LEUER, KRISTINE
LINDSTROM, MARK
MACKINAW, TODD MICHAEL
McClellan, Mark
McGinn, Brent
MICHelson, PAUL
MIHELKE, GREGORY WAYNE
MILLER, MICHAEL
NELSON, PAMELA
OAK, STEVEN
OLSON, LAWRENCE
OLSON, STEVEN
PETERSON, CHARLES
PETERSON, MARK
RAUVOLA, SCOTT
ROSETHE, WADE
ROSS, PETER
ROME, GRETCHEN
SCHAFFER, JANET
SCHWERNER, JERI
STEINHJEM, PETER
STROMMER, JAYNE
TROUNBOOM, KAREN
VOELKER, LeROY
WALSTEN, RANDALL
WEGERSON, KRISTAN
WELSCH, THRESS

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.


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.


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.


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.


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


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


DANKS, MARTLYN: 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.


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


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

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

DWYER, TOM: BA 77. Attorney. Presented educational programs on marine mammals at Sea World in San Diego, while attending law school. Married. 7415 Hacienda Way; Felton, CA 95018.


ECKRICH, JEROME A. JR.: BA 54. Urologist. Still returns to Lake Vermilion summers. 8 adult children. 1313 S. Dakota St.; Aberdeen, SD 57401.

Elias, Charles B. BA 80. Employed by marketing assoc. firm. Married to JULIA (PEART) Elias, BS 76. who is a customer relations supervisor for GMAC. 5018 38th Place; Des Moines IA 50322.

EMMEL, BOYD: BA 73. Biology teacher at Buffalo Sr. H.S. 319 Leksand Ln; Buffalo, MN 55313.

ENGEISGJERD, JEFF: BS 83. Medical student, UMD. 629 N 17 Ave E.; Duluth MN 55812.

ENGLE, JULIE. BS 82. Bioengineering applications specialist at Endotronics Lab, Coon Rapids, MN. 1152 Farrington St.; St. Paul, MN 55117.

ENGSTROM, TOM W.: BS 78. Waste water operator. Married, 4 sors. 7350 Arrowhead Rd; Duluth MN 55811.


FARCHMIN, CAROL: BS 77. Physician at Skyline Medical Center, Duluth. Married, 1 child. 595 W. Redwing; Duluth MN 55803.

FARCHMIN, JON A.: Supervisor of 7-11 Stores in Duluth and Superior. Married (Carol), 1 child.

FARISH, GUY E.: BS 85. Grad student at UND, coordinating freshman labs. 1115 University Ave. #2; Grand Forks, ND 58201.

8. The Life Scientist
FIELD, ROB: BS 81. Physical therapist. 345 N. 5th St. Apt 68; Klamath Falls OR 97601.
FILSON, MARLIN: BS 70. MN ore operations supervisor. USX Corp. Star Route Box 2170; Virginia, MN 55792.
FOSTER, BETTY (Nourse): BS 64. Teacher, microbiology, anatomy and physiology. North Hennepin Community College. 5820 W. Broadway; Crystal, MN 55428.
GROBBES, LORI: BS 83. Student at IU School of Optometry. Evermann Apt C337; Bloomington, IN 47401.
GERLING, SCOTT: BA 75. Physician in family practice. Married, 2 sons. Rt. 6 Box 224; Princeton, MN 55371.
GEVING, STEVEN: BS 1976. Fisheries technician, MN DNR. Married, with two children. 619 Lakewood Rd; Duluth MN 55804.
GRANNEMAN, STEVEN: BS 73. Vice pres, Wendt Labs, a pharmaceutical manufacturer. Married, 1 daughter. 20815 Jacquard Ave.; Lakeville, MN 55044.
GREGERSON, MARLIN: BA 70. Presently taking electronics technician courses. Rt 1, Box 114; Rush City, MN 55069.
GRIER, THOMAS M.: BS 78. Pharmaceutical sales, Ayerst Laboratories. Also, manufactures and distributes "meowie wowie" catnip toys and catnip products. 902 Grandview Ave; Duluth, MN 55812.
GRUNWALD, DELORES: Presently grad student in life and earth sciences, secondary education at UMD. Married to GREG GRUNWALD, also UMD grad. 1919 Jefferson St.; Duluth, MN 55812.
HAAPALA, WILL: BA 71. Wastewater treatment superintendent and city environmental manager. Married, 4 children. Active in alumni activities. 209 2nd Ave NE.; Little Falls, MN 56345.
HALE, BARBARA (BERGSTEDT): BA 77. Research chemist. Married, 2 sons. 401 W. Olive; Bozeman, MT 59715.
HARPER, CHRISTINE: BA 78. Research scientist, NRRI, Duluth. 119 S. Robin Ave.; Duluth, MN 55811.
HAUSBNER, MICHAEL A.: BA 63. Dentist. Married, 3 sons. 702 Rita Cr; Cloquet, MN 55720.
HOWARD, DAVID: BS 81. Student in veterinary med, U,MN, St. Paul. 1855 W. Larpenteur Ave. #9; Falcon Hts, MN 55113.
JAY, GEORGE E: BS 80. MD from Mayo Med School, 84. Married to JOAN (MEGER) JAY: BS 81. 2 sons. Joan in masters program in speech path. 3460 24th Ave S. #1016; Grand Forks, ND 58202.
JENSEN, DOUGLAS; BS 83. Aquatic biology and toxicology research tech. Center for Lake Superior Environmental Studies UWS. 5703 Otsego St.; Duluth, MN 55804.
JENSEN, KATHLEEN (QUIST): BS 83. Research Technologist, acid rain research. UWS. 5703 Otsego St.; Duluth, MN 55804.
JEWETT, KELLEY R.: BS 84. Peace Corps volunteer in Liberia, West Africa. Unit 1, Box 6; Swatara, MN 55785.
JOHNSON, DONN: BA 73. Associate prof. of Entomology, U of Arkansas. Married with one child. 2679 Ferguson Ave; Fayetteville, AR 72703.
JOHNSON, GARY R.: BA 75. Biostatistician VA Cooperative Studies Program. VA Medical Center. 31 Arden Street; New Haven, CT 06512.


KEELER, ELSA NISSWANDT: BS 84. Third year student at U of MN Med school. Married Jeff Keeler (UMD 83) in Nov. 85. 1408 Hythe St. #8; St. Paul, MN 55108.

KELLEY, CHERYL: BS 83. Grad student in marine sciences, U North Carolina at Chapel Hill. 114 Pine St; Carrboro, NC 27510.

KOKKINEN, KENNETH: BS 82. Dentist, presently in advanced dentistry program at U of MN. 1058-D, 27th Ave SE.; Mpls, MN 55414.

KOUBSKY, ROBERT: BS 75. Dentist. Married, 2 children. 3400 1st Street N; St. Cloud, MN 56301.

KRENTZ, RICHARD: BS 85. Industrial hygienist. Siliconix. 2201 Laurelwood Rd; Santa Clara, CA 95054.

KUUSISTO, HOWARD: BS 82. Jr. High teacher. Married. Building a log home. RR 1, Box 211K; Bovey, MN 55709.

LARSON, DR. DORETTE (WHEAT): BA 51. Physician at Moose Lake Regional Treatment Center. Rt. 2, Box 714; Sturgeon Lake, MN 55783.

LEDERLE, KATE (KARNS): BS 81. Completing MS in forestry at Michigan Tech. Until recently worked for Forest Service of New Zealand. 801 Crystal Ave; Crystal Falls, MI 49920.

LIVINGSTON, TOM: BS 80. Public Radio station manager. 315 Atkins; Shreveport, LA 71104.

LOUCKS, PHILIP: BA 75. Environmental scientist for Hillsborough County, Tampa, FL. 5313 MacBeth Ct.; Tampa, FL 33624.

LURVE, DAVE: BA 80. Dentist, US Public Health Serv. Indian Health Serv. Division. Box 75; Fort Defiance, AZ 85604.


MACLEOD, CHARLOTTE: BS 53. Asst. prof Physiology, Med., Chairman of the Board, MN Heart Assn., 610 N. 27 Ave W.; Duluth, 55806.

MAKTI, SCOTT: BS 80. Hydrologic technician, USFS. Single. Spent last winter in south Pacific. 418-1 Geodetic Way; Sitka, Alaska 99835


MCAGRAVEN, PAT: BS 82. Student of toxicology, laboratory of pulmonary pathobiology. U of NC. Rt. 7, Box 82A; Durham, NC 27707.


MCSEHANE, MARK: BA 80. Property manager, City of Duluth. Married, 2 children. 2102 Dunedin Ave; Duluth MN 55803.

MENDOZA, JEANNE (DOTY): BS 67. Biology teacher at Duluth Central and Denfeld High Schools. Married, 2 children. 401 Minneapolis Ave; Duluth MN 55803.


MONSON, PHIL: BS 83, and TERRIE (OPEIM) MONSON: BS 83. With the US Peace Corps in Nepal. Terrie is a teacher and Phil a fisheries specialist. GPO 613; Kathmandu, Nepal.

MORK, G. TROY: BS 84. Third year in optometry at U Missouri, St. Louis. Married Jean Oehrlin in June 86. 4403 Normandy Trace, Apt F; St Louis, MO 63121.

MUEHLBERGER, THERESA: BS 81. Beverage technologist for Dr. Pepper Co. 4692 Amesbury 1038; Dallas, TX 75206.

10. The Life Scientist
NELSON, HEATHER: BS 84. Exercise specialist. Finishing MA in exercise physiology UM this fall. 2519 E. 22nd St.; Mpls, MN 55406.
NORBERG-KING, TERESA J.: BS 80. Research aquatic biologist, US EPA Research Lab. Husband (MIKE) is a toxocologist from U of Wyoming. 27 N 54 Ave E; Duluth MN 55804.
NOWAK, JOE: BS 58. Retired in 83 after teaching life science 25 years at Cloquet Jr. High. Also coached skiing. 205 Carlton Ave; Cloquet, MN 55720.
OLSEN, KEVIN: BS 77. Secondary schools science teacher. Married, 2 children. Rte 1, Box 174; Staples, MN 56479.
OLSON, KARL: BS 86. Grad student in pharmacology, U MN. Married July 86. 5544 Chicago Ave S. Apt 12; Mpls, MN 55417.
OLSON, WADE: BS 76. Biology teacher and boys basketball coach at Alta H.S. MA degree in 86 U of Iowa. Married, 2 children. 605 S. Main; Alta IA 51002.
OPHEIM, KATHRYN : BS 77. Physician in family practice. Married. 4501 Cheyenne; Sioux City, IA 51104.
PEITSO, RICHARD: BS 69. High school teacher of physical science and chemistry. Married, 1 child. Rt 5, Box 243; River Falls, WI 54022.
PETRACEK, PETER: BS 83. Grad student in horticulture, MSU. Dept. of Horticulture, MSU; E. Lansing, MI 48824.
REGAL, JAMES: BA 64. Obstetrician and gynecologist. Married, with 4 children. 2205 Wildwood St.; Eugene, Oregon 97401
RICHARDS, JOE: BS 84. Third year med student at UW, Madison. Engaged. 2901 Marina; Middleton, WI 53562.
RICHIE, BARB: BA 79. Dentist. 4810 Hwy 7 #406; St. Louis Park, MN 55426.
ROCCIO, ALAN: BS 69. Science teacher, Superior Public Schools, Superior, WI. 1002 N. 46th Ave E.; Duluth MN 55804.
RYDBERG, LAUREN: BS 80. Teacher at Susitna Valley H.S. in math, biology, chemistry and art. Box 1457; Talkeetna, Alaska 99676.
SCHMID, RICHARD: BS 80. With Viking Explosives Fabrication, Hibbing. 216 Adams Ave; Eveleth, MN 55734.
SHUBAT, DEBORAH: BA 73. MS in horticulture, U MN in 83. Operator of greenhouses at UMD. 9956 Greenwood Rd; Duluth MN 55804.
SMITHSON, SUSAN (HARA): BA 77. Medical transcriber for Humana Hospital. 15718 E. Princeton Ave; Aurora, CO 80013.
SPENCER, DREW: BS 85. Student, UM School of Dentistry. 5600 Woodcrest Dr.; Edina MN 55424.
SPONG, RONALD: BA 72. Environmental health supervisor, Dakota County. 4 children. 1772 Ashland Ave; St. Paul, MN 55104.
STEWART, BRENT: BA 77. MBA from UW, Oshkosh 85. Presently in doctoral program at U. So. Carolina. Married to NANCY (LEVIN), UMD Dent. Hygiene 77. College of Business Adm. USC; Columbia, SC 29208.
STONER, JOHN R.: BA 56. Science Dep't Chmn. Aldrich Jr. H.S.; 1118 Central Ave; Beloit, WI 53511.
STORM, CARROLL: BS 72. Principal at Lac Courte Oreilles Ojibwa School in Hayward. Rt 2, Box 2800; Hayward, WI 54843.
SWANBERG, RONALD A.: Gibbon High School computer and science instructor. Box 452; Gibbon, MN 55335.
TARIO, JOHN: BA 83. Attorney. No kids, dogs or station wagons! 1000 Bellingham Towers; 119 N. Commercial St.; Bellingham, WA 98225.

The Life Scientist 11
THAYER, CAROLYN: BS 85. Researcher in cardiovascular physiology, UM. 162 SE Bedford St.; Mpls, MN 55414.

THELEN, VALERIE: BS 84. Raises registered quarter horses. 809 Prospect Ave; Cloquet, MN 55720.


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VITEK, JERROLD: BA 73. Physician. Neurology resident, Johns Hopkins Hospital. Married (Mary Kay Pearson, UMD) 2 children. 2721 Strathmore Ave; Baltimore, MD 21214.

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WALLACE, MELISSA: BS 81. Veterinarian, resident in small animal medicine. 595 Main St. #315; Roosevelt Island, New York, NY 10044.

WICKLUND, SUSAN: BS 84. Biologist/pharmacologist at 3M-Riker Labs in St. Paul. Married October 86. 505 Whitewood Drive; Burnsville, MN 55337.

WILHELM, CHRISTINE: BS 84. Pet ranch manager, 3805 Sibley St. #102; Burnsville, MN 55337.


ZAKULA, GEORGE: BS 75. Program director in medical record technology. 1819 27th Ave. S.; Fargo, ND 58103.

ZEHM, ARTHUR: BS 80, dentist, and GWEN (LARSON) ZEHM have two children. 1751 Colette Drive #4; North Mankato, MN 56001.