

# Alumni Newsletter

## Science Division



MATH • BIOLOGY • PHYSICS • ENGINEERING • CHEMISTRY • NURSING • COMPUTER SCIENCE

Sioux City, Iowa

Summer 1991

### GATEWAY LAB

Morningside College upgraded the microcomputer laboratory last fall that is located in the Jones/Jacobsen Science Hall. More than \$50,000 was allocated for the lab from the newly established academic facilities and equipment line item in the College's budget.

The lab is equipped with 18 new Gateway 80386 computers with color screens, hard disk drives and mouse input devices. They are networked together to a host system that allows them to share printers, software, and data.

Fifteen faculty, and twenty-seven student microcomputers have direct access to the network. Future plans for the network include electronic mail software so that students can hand in assignments and papers electronically. The faculty, in turn, can make corrections and comments on these assignments and "e-mail" them back to each student.

This microcomputer laboratory is available to all students on campus. It is open for use for any class, whenever there are not specific classes scheduled. Other departments that have taken advantage or will take advantage of this network lab include: math, computer science, psychology, physics, business, political science, and chemistry.

The network software was obtained through a grant written by Mathematical Sciences Professor Bill Steinman through the Novell Educational Grant Program. As the network administrator, Professor Steinman is responsible for the design, installation, security, modification, and integrity of the building-wide network. The Mathematical Sciences Department funded a projection system that is connected to the network. This allows for the demonstration of any software to be projected onto a movie screen.

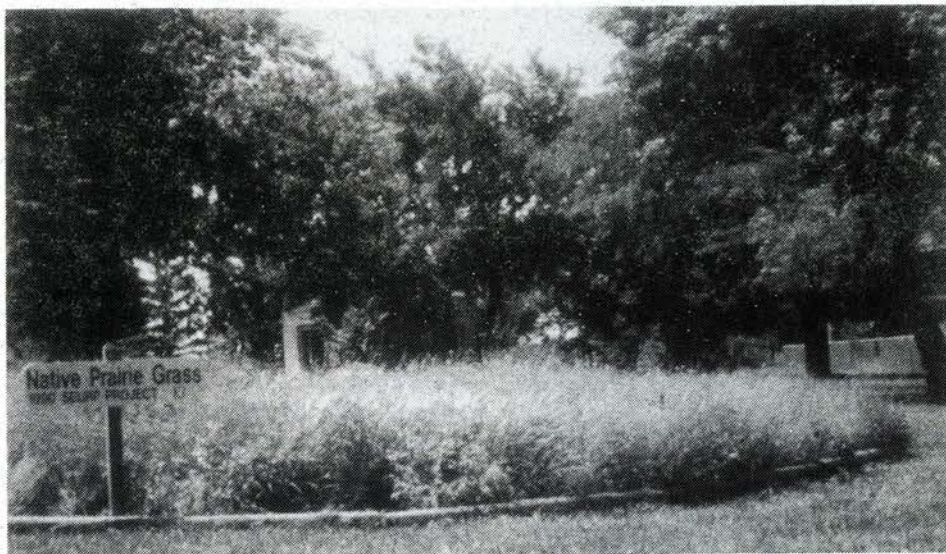
These fast and powerful systems would not have been affordable if it were not for the generous donation of about \$25,000

worth of computer components from Gateway 2000 of North Sioux City, South Dakota. Morningside graduate Norm Waite was integral in the process that allowed this gift to happen. Another Morningside graduate associated with Gateway 2000, Ken Graham, was instrumental in the logistics and installation of the donated components.

On another note, the advanced computer science majors have a new IBM AS 400 minicomputer system available to them as of this past Christmas vacation. After polling the business computer managers in the Siouxland area, it was revealed that no other school was exposing their students to the newest in commercial computing architecture. Therefore, the older out-of-date system was retired and a new system was purchased with the support of both the Academic Computing Advisory Committee and the President's Cabinet. This new system allows for hands-on learning in new storage and retrieval systems involving

databases, and commercial programming languages. Additionally our graduates will have actual experience in managing this system. The advanced students will be given direct responsibility for the administration of this system as part of the continuing effort to take our students beyond the traditional classroom learning.

The computing future for chemistry, psychology, and physics looks bright. Another small UNIX-based minicomputer system is on order for summer research projects as well as for undergraduate instruction during the regular school year. This newest system will be an IBM RS 6000 and is one of the fastest scientific computers on the market for its size. Programs as large as 1.5 million instructions can be run on this small system because of its speed and power. Psychology will be using this system for statistics and research projects as well as chemistry, computer science, and physics students.



#### 1990 SEURP PROJECT

Prairie Grass and Wildflowers Enhance Morningside Campus



## FACULTY ACTIVITIES

### BIOLOGY

Dr. Joe Claflin attended the International Urban Wildlife Conference in Cedar Rapids last October. The objectives of the meeting were to develop methods and strategies for educating the public about the values of urban wildlife and to develop proper management techniques to sustain wildlife species within our metropolitan centers. A fall teacher workshop is planned to try to incorporate some of these ideas into an elementary context.

Joe conducted an elementary teachers workshop last September at the Port Neal Field Station. Activities involving prairies, woodlands, and aquatic ecosystems were preceded by a light supper and a discussion of science "needs" in the elementary schools.

Dr. Mary Leida, Chair of the Biology Department, was one of twenty participants selected from nationwide applicants, for a two-week workshop concerned with incorporating Molecular Biology Techniques into the undergraduate curriculum. The laboratory workshop was held in June at the University of Wisconsin, LaCrosse and was sponsored by the National Science Foundation and private industry. With Mary's expertise in new methodology, we can proceed with developing and improving our molecular biology emphasis at Morning-side.

In February, Mary presented a discussion of the natural history of Lyme disease at the local Audubon meeting. She and her students spent the past two summers researching the frequency of the carrier tick in western Iowa. Fortunately, this tick has not as yet been found in this part of the state.

Dr. Gary E. Durrant (new faculty person) has served as the sabbatical replacement for Jane Hey, who is completing her Ph.D. at Iowa State University. Gary grew up in Akron, Ohio doing his undergraduate work at Ohio Wesleyan University. He received his Ph.D. from Indiana University, Bloomington, in 1988. Gary's dissertation research was on the neuroethology of the production of biosonar pulses by the larynx of the Big Brown Bat. He then worked two years in the Department of Physiology at the University of Louisville, doing research in microvascular physiology.

Gary has taught Anatomy and Physiology, General Physiology, Biology Seminar, and Animal Behavior during the past

year. His involvement in our Summer SEURP has produced some very interesting data regarding microcirculation in various fish species.

### CHEMISTRY

Dr. Larry Martin's summer 1990 research projects (SEURP) resulted in two papers being delivered by students involved in the work (Erick Hunt, "Hydroformylation", Iowa Academy of Sciences, and Jeff Merkel, "Polymer Cracking", Iowa Junior Academy of Sciences). Larry conducted a workshop (SEURP) for middle and high school teachers on the topic "Lecture Demonstrations" and made presentations to local schools on the topic "Science in Science Fiction Movies". He was a guest on the MCTV program "Crossroads: Religion and Daily Life", discussing the Teddy Bear Roundup Campaign which he helped to organize. He also served on the organizing committee for the local CROP Walk.

Larry attended a workshop on Computational Chemistry (Calvin College, MI) which resulted in the incorporation of two computational lab experiments for the Organic course. He also attended meetings of the Midwestern Association of Chemistry Teachers at Liberal Arts Colleges (Lake Forest College, IL) and the Iowa Academy of Sciences (Loras College, IA).

Larry is supervising two SEURP summer projects which are extensions of the previous summer's work: Hydroformylation: Methods for increasing the amount of branched chain product (Erick Hunt, junior, continuing on project) and Polymer Cracking: Methods for recycling synthetic polymers (Howard Wanned, North High School).

Dr. Edward Shane presented a paper on "Spreadsheets in the Chemistry Curriculum" at the Midwest Regional Meeting of the American Chemical Society, Manhattan, Kansas. The paper was based on a Summer 1990 research project with Jeff Santi ('91). Ed also presented an evening workshop for thirteen elementary teachers on chemistry and physics experiments for kindergarten through sixth grades. He participated with Mr. James Redmond on the KCAU-TV "Concern" interview show; the topic of the discussion was environmental issues. With Dr. Doug Swan (Mathematical



Bill Steinman

Sciences), Ed participated in the MCTV program "Crossroads: Religion and Daily Life"; the theme was Religion and Peace.

Ed gave several talks to area high schools and service groups on the Greenhouse Effect, the Ozone Controversy, and Water Quality. He also attended the meetings of the Iowa Academy of Science (Chemistry Section) Workshop on Chemical Waste Disposal, UNI, the Midwestern Association of Chemistry Teachers in Liberal Arts Colleges, Lake Forest College, IL; and the Midwestern Regional Meeting of the American Chemical Society, Manhattan, KS.

Ed is coordinating the Summer '91 Research: 1) SEURP - Fly Ash Study; 2) DNR funded research with Rod Tondreau on "Bioconcentration of Heavy Metals in the Missouri River".

### MATHEMATICAL SCIENCES

Assistant Professor Carolyn Steinhaus of the Mathematical Sciences Department has continued her curriculum development work this year offering three new courses: Systems Programming (CSCI 360), Analysis of Data Structures and Algorithms (the new CSCI 334) and a renovated CSCI 460 - Operating Systems.

Her other activities for the year included attending the national ACM Computer Science/Computer Science Education Conference in San Antonio in March and serving as a cooperating scientist for the Science Museum of Minnesota's Science by Mail Program. Science by Mail is a program for elementary and middle school-age children. It provides them with several series of experiments in problem solving which they then discuss with their assigned profes-

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## MATHEMATICAL SCIENCES

### ROBBIE ROHLENA TO TEACH MATH

For two years Robbie Rohlena taught several lower level courses in our math department with great success. She then went back to full time mothering. Now after two years we are able to bring her back as a half-time permanent member of the department. Her duties will include teaching two courses and tutoring ten hours a week.

Mrs. Rohlena graduated from the University of Iowa and is a certified math teacher. She taught mathematics for three years at the high school level in Solon, IA, one year at the junior high level in Cedar Rapids, and one year at Western Iowa Tech before coming to Morningside. She has earned twelve graduate credits and is a student in

Morningside's master's program in computer based learning.

Mrs. Rohlena's mother, Barbara Smith, is a member of the board of directors of Morningside College.

### COOPERATIVE LEARNING IN CALCULUS

Morningside College will participate in a program teaching calculus using cooperative learning starting this fall. The course is being developed at Purdue University. Morningside College will be the first Iowa college to participate in this program. Drs. Doug Swan and Steve Nimmo, who will team teach the course, expect to make many modifications to the experimental curriculum.

This program incorporates a computer

algebraic system, DERIVE, a logic oriented language, ISETL, and cooperative learning. Students are divided into study groups of three based on several factors including high school math background, leadership experience, experiences with cooperative learning, and their math ACT scores.

Students are given discussion questions, problems and activities to do as a group. The professors team-teaching the course will check in with each group several times during the period to make sure they are on target and bring the groups together for class discussions. The classroom atmosphere is one involving active learning. This dramatically improves student attitudes.

Morningside College is fortunate to have the recently updated computer lab to use as a classroom for this program.

## NURSING EDUCATION

### NURSING EDUCATION IS READY FOR 21ST CENTURY

The Department of Nursing Education is pleased to report a successful NLN Site Visit (March 12-15, 1991). Our NLN visitors, Dr. Brown from Villanova University and Dr. Hoshiko from Kent State University recommended continued accreditation for eight years. Official notification will be sent after the NLN Board of Review meeting in October, 1991. Their recommendations affirm the quality of our curriculum, faculty, students, and graduates.

With the completion of the NLN Self Study Report, nursing faculty are preparing to implement a new curriculum in the Fall of 1991. After extensive review of health care needs and competencies required for nurses in the 21st century, we determined that community health nursing should be moved to the senior year as a separate course. Additionally, nursing research should focus on utilizing research results to change nursing practices. Moreover, the upper level courses should be divided into separate courses. This division of content will better enable faculty and students to focus on specific content, e.g., research, leadership, issues, health assessment, as well as

provide greater flexibility in course scheduling.

We believe the new curriculum will provide a sound basis for nursing practice in ever-changing health environments.

### STUDENT RESEARCH TO BE PRESENTED

Patty Budden (RNDC), Judy Olson (RNDC), and Celeste Hinzmann, nursing instructor, will be presenting a research study at the National Conference for the Society of Gastroenterology Nurses and Associates to be held in New Orleans. The research study is entitled "Intravenous conscious sedation used in the endoscopy unit: Does monitoring of oxygen saturation levels influence timing of nursing interventions?"

The nursing research study was conducted by the senior BSN completion students during this spring semester as partial requirement for N402. It has been selected as the only research study to be presented during the general session. We are very proud of these students' hard work and achievement.

## NEW DEGREE OPTION

On April 17, the faculty approved a proposal which will enable some pre-professional students to earn a degree from Morningside College without spending four years on campus. Med Tech majors and pre-engineering students already had access to this option, which is now open to students proceeding toward careers in chiropractic, dentistry, medicine, optometry, physician's assistant, podiatry, and veterinary medicine.

Each student must complete 92 hours (30 hours in residence) and be accepted to a health professions program. All Morningside College graduation requirements must be fulfilled, including core requirements, oral proficiency and written proficiency. After successful completion of the first year in the professional program, the student is able to transfer up to 32 credits back from the professional program and receive a B.S. degree from Morningside.

This new degree option gives students more flexibility in pursuing the health profession of their choice and will encourage a closer relationship with some health profession alumni.



# CHEMISTRY/PHYSICS NEWS

## PHYSICS

The physics labs have had a facelift. During the late summer and early fall, 1990, the main general physics lab was completely refurbished. The old (original) physics desks were removed and replaced with modern cabinetry. In addition, each of the lab desks now has a pair of (Apple) microcomputers to accommodate the shift in general physics labs to computer-assisted data collection. The physics storeroom was completely redesigned to give easier access to supplies, and the modern physics lab and multipurpose graphics/design lab received a minor renovation. In the physics office complex, the large central room now houses two 286 Gateway computers with dot matrix and laser printers for use with the Engineering Graphics course.

The physics curriculum, under the direction of Dr. David Groh has had a major top-to-bottom overhaul. A number of existing courses were reconfigured, and several new courses were introduced. The redesign of the general physics labs to emphasize computer usage has already been mentioned. Mr. James Galli, while on sabbatical leave during the spring semester 1991, is developing labs for the new Advanced Laboratory sequence. The courses in Electronics and Solid State Physics have been redesigned, and new courses have been instituted in Particle Physics and Theoretical and Applied Dynamics. An Advanced Projects/Research course has been introduced for juniors and seniors. Projects have been worked on in the fields of chaotic dynamics experiments, superconductor fabrication and free fall.

The Engineering Graphics course, which was completely redesigned last year, will be taught using AUTO-CAD which is now available on microcomputer in the new Gateway Computer Lab in the Jacobsen Annex. New courses in Survey of Engineering Fields and Statistics were added to the engineering curriculum. Needless to say, the physics faculty are kept extraordinarily busy. Mr. Galli and Dr. Groh are only able to offer the full physics/engineering curriculum by teaching the upper level courses in alternate years.

A junior physics major, Randy Blessing, received the Robert Wood Green Outstanding Physical Science Student Award at the annual Honors Convocation. The award includes a \$500 scholarship and an

engraved silver tray.

The Morningside College Society of Physics Students chapter received honorable mention on a Marsh-White Award proposal. Six students prepared the proposal to design and develop displays in the O'Donoghue Observatory. Iowa Public Service is now supporting the project through the SEURP program.

## CHEMISTRY

The chemistry curriculum now includes a phased-in exposure to the use of computer spreadsheets to solve chemistry problems. Jeff Santi ('91) and Dr. Edward Shane developed a large number of spreadsheets for this purpose as one of the 1990 SEURP research projects. Freshman students are now introduced to spreadsheets in general chemistry lecture and lab where they use already prepared spreadsheet templates. Spreadsheets are now routinely used by faculty in lectures for general, analytical, and physical chemistry utilizing a projection system which projects the computer monitor image into a full-sized screen. When the students reach their upper level courses, they are expected to write their own spreadsheets to process lab data and solve chemistry problems for regular courses. A small computer lab on the chemistry floor houses two 386 Gateway Computers. Students also have access to the main Gateway Computer Lab on the first floor of Jacobsen.

Erick Hunt ('92) gave a talk on "Hydroformylation: Increasing the Amount of Branched Chain Product" at the annual spring meeting of the Iowa Academy of Science. The report was based on research that Erick performed under Dr. Larry Martin's direction as one of the summer 1990 SEURP research projects.

Jeff Merkel (East High School) gave a talk on "Polymer Cracking" to the Iowa Junior Academy of Science. The paper was based on work that he and Megan Shane (North High School) performed under the direction of Dr. Larry Martin as one of the summer of 1990 SEURP research projects.

Greta Gonnerman, a biology major from Hartley, Iowa, received the CRC Freshman Chemistry Award which goes to the student with the highest grade point average in the general chemistry course.

Dr. Dean DuVal ('80) has made arrangements for his company, Proctor and

Gamble, to donate a used Perkin Elmer atomic absorption spectrophotometer to the Chemistry Department. With assistance from the College's Capital Equipment Fund, the department has also recently been able to purchase an Hitachi U-2000 vu/visible spectrophotometer and a Tracor 540 gas chromatograph.

## RECYCLE MORNINGSIDE

Every faculty office and various sites around Jones/Jacobsen Hall are now paper collection points for the Recycle Morningside Program that was begun during Spring 1991 semester. Under the leadership of Andrea Lindgren Baltzell ('91), student government president and physics major, a campus-wide recycling program was initiated. Members of the Science Club also played a catalytic role in the startup of this recycling program. Paper and aluminum pop cans are being collected in this initial recycling effort.

## TEDDY BEAR ROUNDUP

Teddy Bear Roundup was a campus-wide campaign to collect stuffed animals for the Council on Sexual Assault and Domestic Violence (CSADV). CSADV gives stuffed animals to the children that are housed in its "safe house". The campaign resulted in the collection of \$89 and over 120 stuffed animals. The faculty and staff of Jones/Jacobsen showed their generosity by donating \$50 and more than 30 stuffed animals. Dr. Martin was one of the organizers of the campaign.

## SPORTS

After last year's loss to the faculty in softball, the students challenged us in volleyball in the fall semester. The students won the first game easily but we played them closely in the last game before losing. However, the five games in between the first and last were won by the faculty, thus preserving our undefeated record against the students. The Second Annual Faculty/Student Softball Game was rained out, therefore, the students lost their chance to redeem themselves until next year.



## SUMMER 1991 S.E.U.R.P.

In early May, eleven college and six high school students began what was to be their first exposure to scientific research. Seven faculty supervised a variety of biology, chemistry, and physics research projects in what is now the sixth year of the Science Education and Undergraduate Research Program (SEURP).

Field Biology projects were based at the Port Neal Field Station and were directed at ongoing efforts to develop the field station as a model site for ecology and cooperative research. Maintenance of a five acre native prairie and a variety of plantings near the field station were continued. A tree planting project was expanded to test trees for survival in the Western Iowa climate, and the butterfly garden was expanded. Data on blue bird nesting along the blue bird trail was gathered, and the nature trail received needed maintenance. A study of the revegetation of a fifty acre fly ash storage site was continued. Paula Armstrong (junior, Ponca, NE), Jeff Butzke (senior, Sioux City), Charlie Lara (Sioux City), Anne Kutlowski (North High School), and Wade Cox (North High School) worked under the direction of Dr. Joe Claflin and Jane Hey.

Fly Ash was also the focus of a chemistry project for Lyle Vander Schaaf (junior, Orange City, IA), Kraig Roupe (West High School) and Dr. Edward Shane. They developed a chemical profile of the wet and dry ash depositories at the IPS Port Neal power plants with an emphasis on leachable anions and cations.

Dr. Larry Martin directed two chemistry projects. Erick Hunt (senior, Knoxville, IA) continued a Hydroformylation study which he began last year. Erick synthesized several liquids and then determined their effect on the normal-branched chemical ratio for the hydroformylation reaction. Howard Wanned (North High School) investigated the role of catalysts in polymer cracking to see how this process can be applied to Polymer Recycling.

The noticeable decline in Channel Catfish in the Missouri River was investigated by Dr. Joe Claflin and Rod Tondreau (Research Associate) with help from Greg Harson (senior, Hartley, IA). Using baited hoop nets, they determined channel catfish abundance, population density, length-weight relationships and age-growth ratios. Greg also worked on a Microphotography project in which he prepared 35mm

projection slides of existing microscope slides of plant and animal tissue. The projection slides will be used by biology faculty in classes and labs to point out important structures and cell types before students begin their individual microscope slide evaluations.

Michael Klingseis (senior, Sioux City) worked with Dr. Gary Durrant on a Microvascular Physiology project. They worked to resolve the controversy over which hormones and neurotransmitters cause vascular dilation and constriction in cold blooded vertebrates. Mike and Gary concentrated on the effect of the neurotransmitters, acetylcholine and norepinephrine, on the control of the intestinal microcirculation in frogs and turtles.

An effective cause in parasitology should include experience with local parasites. Scott Barker (junior, Sioux City) and John Dohrman (Heelan High School) worked with Dr. Mary Leida on a Parasite Ecology project in which they collected several species of aquatic snails and monitored them for parasite infections. While collecting snails, they also collected, identified and prepared permanent mounts of local leech species for the Biology Department's collection.

Dr. David Groh directed two projects. Randy Blessing (senior, Sioux City), Mohammad Shahin (senior, Bangladesh), Michael Cagel (sophomore, Sioux City) and Nicole Brunken (Heelan High School) developed displays for the O'Donaghue Observatory to make the observatory a more functional facility for the College and community. Mohammed also worked on an Applied Computation project which is a computer-based physics problem dealing with the diagonalization of huge matrices.

The aforementioned projects were implemented during the Summer 1991. During the 1991-92 school year the science faculty will offer a series of six Workshops for Elementary Science teachers in the areas of life, physical and earth sciences. In coordination with the Western Hills Area Education Agency, staff development credit will be available to the teachers who attend.

Morningside College gratefully acknowledges the funding for SEURP supplied by Iowa Public Service Electric (Midwest Energy). The teacher workshops have been very well received in past years and represent our science faculty's commitment to the improvement of science teaching at

the elementary and secondary levels. For the Morningside students the summer research projects give them a glimpse of how science really works. For faculty, the research is a welcome opportunity to stay current in their disciplines.

### **Faculty Activities** *continued from page 2*

sional scientist.

William Steinman, an associate professor, has recently earned a doctorate in computer education. The Board of Directors at Nova University of Fort Lauderdale, Florida conferred the degree on April 22, 1991.

The degree focused on the integration of technology into the process of teaching as well as learning. His dissertation was a study of the academic design and implementation of computer local area networks in post-secondary institutions across the country.

Steinman joined the Morningside faculty in 1982 after teaching for three years in the Business Education and Information Management Department at the University of Wisconsin-Eau Claire.

Currently, Professor Steinman is teaching in the Mathematical Sciences Department. He has designed and implemented a new master of arts degree in computer-based learning for teachers that will graduate its first five candidates this summer.

### **NURSING EDUCATION**

LaVone Sopher and Mary Hettinger received the Nursing Media Print Award for Region 2, Sigma Theta Tau International Honor Society for Nursing. Their story, "Nurses Play Heroic Role in Air Disaster" was printed in the Iowa Nurse Reporter and The American Nurse. The award was presented on March 8, 1991 in St. Louis, MO.

LaVone Sopher, while on sabbatical during Fall, 1990, wrote two new courses for the newly revised nursing curriculum and served as consultant to Emergency/Outpatient Department at St. Luke's Regional Medical Center on developing a new charting system.



## ALUMNI NOTES

### CLASS OF 1961

**Dr. Paul Appel** (Science) received his DDS from the State University of Iowa and has been self-employed for twenty-six years. He and his wife Bett Ann have five children: Barbara, Bill, Kelly, Mark, and Kristin.

**Mary Ehrhardt Carstensen** (Math Education) is a nursery school director at New Horizon Child Care in Sioux City. Mary and her husband Robert have two daughters, Julie and Jeanine.

**Leland Warne** (Physics) and his wife Sharon live in Albuquerque, NM with their two children Michael and Linda. Leland is affiliated with the manufacturing engineering staff of Honeywell Corporation.

### CLASS OF 1971

**Mary R. Armin** (Biology) recently received her M.A in Biblical Studies at the Colgate Rochester Divinity School/Bexley Hall. Her husband Robert Stocksdales is also graduating from the seminary and was ordained in the Episcopal Church in June. From 1972-84 Mary was an investigator for the drug enforcement administration in Denver, Salt Lake City, and Phoenix.

**Doug Dawson** (Math/German) received an MA in Mathematics from Arizona State University. From 1973-80 he taught math, computer programming, and German at Trevor Browne High School in Phoenix. From 1980-85 he was director of the Math Learning Center at Arizona State University. Doug is presently a math instructor at Glendale Community College in Glendale, AZ.

**Roberta Rawson Feriancek** (Physical Ed/Math/Psychology) is a project leader in computer services for Northwest Airlines. She and her husband Michael enjoy

volleyball, Vikings and Minnesota Gophers football, basketball, hockey, walking, biking, and traveling.

**Thomas A. Forsberg** (Math/Physics) is CEO for Forsberg Farms, Inc. of Asaizitaku, Hiroshima, Japan. He and his wife Delores (Kotschwar) have two children: Anneliese and Phillip.

**Marlene Gustafson** (Biology) transferred to Washington University in St. Louis in 1969 and graduated 1971 with a degree in Physical Therapy. She is a staff physical therapist at Younker Rehabilitation Center in Methodist Medical Center in Des Moines, IA since 1980. She specializes in spinal cord injuries or head trauma in their outpatient area. Marlene and Jim have two children, Mike is 14 and Amy is 9.

**Cynthia (VanWinkle) Hollander** (English/Math) For several years Cynthia worked for a Computer Service Bureau and for General Mills in their information services and as a market researcher. For the past five years she is a homemaker and school volunteer. She and her husband Richard have a son Eric.

**Libby (Danielson) Holmgren** (Math) is the supervisor of the Math Resource Center at Johnson County Community College in Overland Park, KS. JCCC is a large community college with over 4500 math students each semester. Libby and her husband Bruce are busy with the activities of son Daniel (13) and daughter Cristin (15) in sports, music, scouts, church, and school events.

**David C. Hutchinson** (Math/Business Admin) and his wife Barbara live in St. Paul, MN with their five children Sarah 14, Kathryn 11, Jill 9, Jonathan and Christopher both 7. David received a Juris Doctor de-

gree from William Mitchell College of Law in 1975 and is an associate with Geraghty, O'Loughlin & Kenney, P.A. He has had a great deal of experience with teaching and lecturing in the defense field as well as being published in Minnesota Defense, Spring 1990. It is noted that David ran the 1989 Twin Cities Marathon in 3 hours, 22 minutes. He also enjoys playing squash (1987 Class A Champion - St. Paul Athletic Club), tennis, golf, music, and reading.

**Kathleen Foster Jones** (Math) is teaching at Washington High School, Milwaukee, WI. Washington High is the computer speciality high school in Milwaukee. The Milwaukee school system sent her to two businesses, A.O. Smith Corporation and Wisconsin Bell Telephone during the 1985-86 school year for business training on computers. She is presently teaching Introduction to Computers, LOTUS 1-2-3, and is supervising a technology lab. Kathleen's family includes her husband Philip and sons Michael 12 and Matthew 9.

**Lawrence D. Meyer** (Sociology/Math/Psychology) received his M.S. in Clinical Psychology at the Univ. of Texas at El Paso in 1976. He is currently employed at the Life Management Center for MH and MR Services in El Paso. For the past seven years he has been a clinical supervisor of mental health programs for chronically mentally ill patients. Also currently, he is a co-investigator on a research project looking at treatment compliance of Mexican/Americans diagnosed with schizophrenia and how families can improve compliance. Lawrence married Lynette Stover and they have a daughter, Nicole who is 12.

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## Alumni Update

Name \_\_\_\_\_ Class \_\_\_\_\_  
 Address \_\_\_\_\_  
 Undergraduate Major \_\_\_\_\_ Advanced Degrees/School \_\_\_\_\_  
 Recent Employment \_\_\_\_\_ Honors \_\_\_\_\_  
 Activities and items of interest \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



## Alumni Update, continued

**Joan Reinking** (Psychology/Biology) is an RN graduate of St. Luke's School of Nursing. She is the office nurse at Kingsley Medical Clinic in Kingsley, IA and has worked part time there since 1986. She and her husband Roger have two teenage sons, Mark 17 and Dean 14, who attend Eastwood Community Schools.

**Charles Lee Swensen** (Biology/Chemistry) attended the University of Iowa and received his MS in Pathogenic Bacteriology in 1974 and his doctorate in 1977. Dr. Swenson has done research at the National Jewish Hospital in Denver, Bowman Gray School of Medicine at Wake Forest University, and the University of Connecticut. Charles is presently a professor of biology at Warren Wilson College in Swannanoa, NC and was recently awarded tenure. He and his wife Pamela (Szejda) have a young son Alexander who keeps his parents busy. They also are interested in photography, rock climbing/hiking, military history, reading, and gardening. His research interests include genetics of iron acquisition by the pathogenic yeast, *Candida albicans* and the physiology and biochemistry of lipid production by algae (or how to grow your own diesel fuel).

**Rita A. Warren** (Biology) received her B.S. and M.S. from the University of Minnesota. Since then she was Manager of Nutrition Technical Services at General Mills, Inc. from 1983-88; Dietary Data Collection System Coordinator at the Univ. of Minnesota; and since 1990 Rita is the Assistant Director of Corporate Recruitment for the National Marrow Donor Program, a non-profit organization. If you would like additional information on sponsoring a marrow donor program (or finding suitable bone marrow donors) in your place of business or as an individual, call Rita Warren 800-526-7809. She's asking 'is all to "give the living gift of life to a stranger!"

### CLASS OF 1981

**Pamela S. Adams** (Nursing) has been an RN at Marian Health Center in Sioux City and self employed in network marketing. She and her husband Craig have two daughters.

**Dixie L. Allen** (Nursing) has two children Andrew 9, and Alana 8. Dixie is currently a pediatric advanced life support instructor and an emergency room nurse at Children's Mercy Hospital in Kansas City, MO. She plans to begin work on an M.S.

degree this fall in Pediatric Nursing at UMKC.

**Pama Lu Banks** (Nursing) is Staff Development Specialist with emphasis on EMS at St. Luke's Medical Center in Sioux City. She is a certified emergency nurse (C.E.N.), secretary of Woodbury County EMS Association, a member of Woodbury County Disaster Committee, and a board member of Siouxland Critical Incident Stress Debriefing (CISD), Inc. She and her husband Jules Kirk Banks have a son Benjamin Adam.

**Kathy (Jepsen) Berens** (Nursing) is employed at the Crawford County Memorial Hospital in Denison, IA as the Associate Director of Nursing. She's also the Utilization Review Nurse, hospital liaison with the Iowa Foundation for Medical Care, Discharge Planning Nurse, and Respite Care Coordinator. In addition to those responsibilities, Kathy also teaches CEU classes, ACLS classes, and has taught for Buena Vista College and WITCC. Kathy currently belongs to the Denison Chapter of AAUW, is on Board of Directors for Crawford County Child Care which is presently working on establishing a County Day Care/Preschool; and the Advising Committee for the Charter Oak Ute Community School. She and her husband Tom are counselors for St. John's Lutheran Youth Fellowship. With their children Daniel 6, Sean 4, and Carter 8 mo, the Berens enjoy golf, gardening and canning her own fruits and vegetables, and spending time together.

**Kathy Bernard** (Nursing) is a basic life (CPR) instructor and staff development instructor at St. Luke's Hospital in Sioux City. Her family includes her husband Jim and son Adam.

**Rebecca (Sylvie) Clayton** (Business Admin.) lives in New London, MN with her husband Richard and their baby William Richard.

**Ellen Coughenour** (Nursing) is a registered nurse at Fairbanks Memorial Hospital. She also belongs to a quilters guild.

**Vien D. Doan, DO** (Math/CSci) received his degree at the University of Osteopathic Medicine and Health Sciences. He has his own practice and enjoys black belt karate, is active in his church and on the medical staff at the community hospital where he lives. He and his wife Grace have a son Luke.

**Marcia (Bransten) Donohue** (Nursing) worked as a nurse for an orthopedic surgeon, Dr. Mark Wheeler, in Sioux City.

She is married to Wes Donohue.

**Rhonda Evelyn (Cooper) Duitscher** (Nursing) will continue her studies this fall at the University of Iowa. She is presently the nursing education coordinator at St. Joseph Mercy Hospital in Mason City, IA. Rhonda and her husband Bill have two sons, Josh and Ben. She enjoys biking, swimming, reading, activities with her family, and the local parent/teacher organization.

**Ronda Hollingsworth** (Nursing) is a registered nurse in the Trauma IC Unit at the Washington Regional Medical Center in Fayetteville, Arkansas. She is certified in advanced cardiac life support, pediatric advanced life support, and trauma nursing. She and her husband Rich have three children Ashlee 7, Tyler 4, and Emily 6 mo.

**Judith (Kudej) Hubler** (Nursing) works in Cedar Rapids as a head nurse in O.R. at St. Luke's Hospital. She is responsible for the speciality areas of ears, eyes, nose, throat, plastics, podiatry, and oral surgeries, planning and budgeting, as well as marketing of surgical procedures. Judith is a member of AORN, active in Marriage Enrichment (a group associated with St. Pius Catholic Church) and has been a BCLS Instructor since 1985. Her hobbies include reading, biking, cooking and running. She and her husband Robert have taken several short distance trips on their motorcycle.

**Diane Kay (Sorensen) Miller** (Nursing) is a critical care nurse for Good Samaritan Hospital in Downers Grove, Ill. She has been employed as a critical care float and instructor in intensive care and the surgical heart unit in Chicago and Valparaiso, Ind. Diane is a BCLS provider as well as an ACLS instructor. She and her husband David have three sons, Daniel 7, Gordon 4, and Andrew 2.

**Gina D. (Chedester) Myers** (Nursing) husband William and their four year old daughter live in Sioux City. Gina is also a surgical nurse at Marian Health Center.

**Jerry E Oakland** (Religion/Math) received his M.Div at St. Paul School of Theology in Kansas City, MO. He is presently Assoc. Pastor at First United Methodist Church in Mason City, IA. He is certified by the UMC as a church business administrator. He is married to Barbara Clarke Oakland; they have three children: Deborah 17, Rebekah 14, and Laura 9.

*continued on page 8*



## Alumni Update, continued

**Jodie L. (Boone) Orke** (Nursing) expects to complete her MSN with focus in Nursing Administration at the University of Minnesota a year from now. She is currently the Director of Surgical Services at Rochester Methodist Hospital, Rochester, MN. Her studies in grad school, A.O.R.N., and her family (James, her husband, and children Saraphia 3, and Matthew under 6 mo) take up all of Jodie's time.

**Mary (Rock) Peterson** (Math) is a teacher at Immaculate Conception-Nativity School in Sioux City. She is married to Thomas Peterson.

**Margarete (May) Sauser** (Nursing) has worked as a staff nurse at St. Luke's Medical Center and at Marian Health Center in Sioux City. She is a school board member of the Anthon-Oto School District. She and her husband Mick have three children, Justin 8, Brett 6, and McKenzie 3.

**Sue Ellen (VanBuskirk) Smith** (Nursing) is seeking a provisional license for teaching and is looking to complete her studies by 1994. She is a nursing instructor for LPN School at Iowa Western Community College in Harlan and is also a staff nurse for the hospital in Harlan. She has been involved with the American Cancer Society, has managed Quality Assurance, Utilization Review of Med/Surg., Maternity Care, and Education/Inservices, promoted nursing as a profession for young persons, and has been listed in Who's Who. She has a husband William and two children, Andrew 7, and Sarah, 4.

### OTHER CLASSES

**Dr. John L. Duling** of Turlock, CA, a

graduate of Morningside's class of '47 has earned several honors and degrees over the years including: 1942-1945 ASTP Medical School, University of Chicago, 1948 M.A. University of Iowa, 1954-55 Ford Fellowship, 1962 Teacher of the Year in California, 1964 Full Fellowship/Doctorate SFUSD, 1966 Ed.D. - U.C. Berkeley, 1968 Who's Who for Service to Alaska Eskimos, 1975-89 DCS Consultant Services. He is currently retired, but lists composition and watching aerobics as items of interest.

**Carl Bylin** (Class of '68) lives in Russellville, Arkansas. After majoring in Mathematics at Morningside he received his M.S. from Michigan State. He was one of the 24 initial members of Kappa Mu Epsilon. Carl is currently an operations research analyst working with geographic information systems, personal computers, and planning with Ozark - St. Francis National Forests.

**Jane (Hagen) Syltie** (Biology-Class of '83) teaches biology, physiology, advanced biology, and outdoor science at Lennox, SD.

**Michelle M. (Jeffrey) Mizell** (Biology-Class of '83) lives in Midland, MI. Michelle works for Dow Chemical Company after receiving M.S. in Pharmacology from the University of Nebraska. She worked in Dow's Toxicology Research Lab for five years and is a member of the Society for Toxicology. She recently took a position as an environmental chemist in the Environmental Services Department of the Michigan Division of Dow Chemical and is responsible for compliance with the Resource Conservation and Recovery Act passed by

Congress in 1976. She and her husband have a young son.

**Valerie B. (Johnson) McMullen** (Computer Science-Class of '88) lives in Roland, IA and is a computer programmer for Oakland Corporation there. Her employment consists of programming and support of Accounting Systems, IRS Magnetic Media programs for grain elevators in the Midwest, and Valerie is considered one of the "hardware technicians". She is currently taking a course in computing from DMACC and enjoys traveling, music, and taking care of the "homefront".

A special note of recognition goes to Roger McGinnis, a 1990 graduate in biology. Roger was selected as an Environmental Specialist for the Iowa Great Lakes watershed region. He will oversee the development and management of approximately 360,000 acres of wetland, grassland, woodland, and aquatic habitat in the lakes area. The position is funded through local, state, and federal agencies with an office in Spirit Lake.

Roger was selected as a field biologist Intern for the Nature Conservancy during the summer of 1989. During that time he was involved in a variety of habitat surveys as well as animal and plant studies throughout the state of Iowa.



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