

Alumni Newsletter

Science Division

M
MORNINGSIDE
C O L L E G E

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

Sioux City, Iowa

Summer 1989

Inch By Inch (Math Sciences/Computer)

The Mathematical Sciences Department has made more progress in keeping up with computer trends. A grant was written to receive \$3,000 worth of software from the Novell Corporation for their most sophisticated networking software. Novell funded Morningside's request and over 50 diskettes of software arrived in late March.

The hardware to run this software was purchased through the Facilities and Equipment Fund of the college. A new Gateway 2000 brand 80386 computer was purchased in May and will provide the additional "horsepower" necessary to link eleven workstations to the network host. The speed of this machine will allow all eleven stations to access the data and programs on the hard disk drive seemingly at the same time.

The purpose of this dedicated host computer is to run the network software and provide both student and faculty access to the 120 megabyte hard disk drive (120 million characters of storage). It will also allow for the sharing of fast dot-matrix printers as well as slower "letter quality" printers.

Another important purpose of this network is to store word-processing, spreadsheet, database, and utility programs on the host and allow for shared access of these programs. This is a tremendous cost savings over purchasing multiple copies of the same software! These software packages will be purchased this summer with funds from the Mathematical Sciences Department. There are plans to include a "spell checker" program as well as a "grammar checker" for the students to use. These programs don't make any changes for the student; they merely point out those words or sentences that may need closer examination. Research indicates that these programs allow the user to become a better speller and better writer through consistent and non-critical evaluation of the possible mistakes.

As for the future, the department is investigating the possibility of acquiring a new academic computer sometime next year. If this purchase can be cost justified, it would

allow for connection into this year's network. It would also allow for more students to have telephone access to the computer and, therefore, the network.

Kerry Frampton is in the last semester of his masters program at USD. Bill Steinman should finish his dissertation for his doctorate in computer-based learning by Decem-

ber. Carolyn Steinhaus will be bringing many years of teaching experience and doctoral work in artificial intelligence.

Things are continuing to change in the Mathematical Sciences Department, just as the industry changes. Morningside will continue to be a computer education leader in this region of the country.

In Remembrance Robert Wood Green

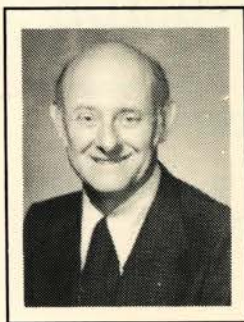


It is with great sadness that we report the death of Dr. Robert Wood Green on July 22, 1989. Dr. Green graduated from Morningside College in 1943 and joined the Morningside College faculty in 1950 after completing his Master's Degree at Iowa State University. Later in the same decade he took a leave of absence from the College to complete his Ph.D. in physics from Iowa State. Bob served as chair of the Physics Department from 1960 until his retirement in the spring of 1989. Dr. Green was the subject of the first Faculty Focus article in the first division NEWSLETTER seven years ago.

Dr. Green will be missed by his colleagues on the faculty and his students, but his memory will live on in those who came to appreciate his love of teaching and his commitment

to his family and the College. For many of us our lasting memory of Bob will be of him sitting in the physics laboratory working one-on-one with a student. What finer tribute to a kind and gentle man and one of Morningside College's outstanding professors.

REFLECTIONS Dr. William Yockey



During my thirty-five years at Morningside College (three years as a student, thirty-two years as a professor of chemistry), I have always been grateful for the stimulating students and profes-

sors I have been privileged to know and count as friends. My associations with these individuals have always been a challenge and a reward.

From my early years at Morningside, I recall the arched pillar and cinder drive that began at the corner of Peter's and Morningside Avenues and exited at the old Grace Methodist Church which was consumed by fire, (probably because we had compulsory chapel services with attendance taken). The "Old Barn" was the campus gathering place for students and served light lunches and snacks even though it was probably only one third the size of Buckinghams in the present Commons. The dining room was in the basement of Dimmit Hall. These facts are even more remarkable since this was the period of the "veteran invasion" after W.W. II, and Morningside College had about 2,000 students enrolled. These veterans also resisted and probably eliminated the wearing of the freshman "beanie" cap as well as paddles carried by the outnumbered upper classmen. These same students likewise contributed to smoking on the campus and in the halls which was forbidden at this time.

I watched many exciting and usually successful basketball games (coached by Al Buckingham) hanging from the balcony of the gym which is now the main floor of the present library stacks. The chemistry laboratories and stockrooms were located beneath the gym floor. This area is now occupied by the audio visual services. The present Flowerland location was a large classroom, especially for large psychology classes taught by Dr. Roberts.

Our chemistry class was the first one to move into the "new" Jones Hall of Science, so this dates our forty year old building. The three to four years which brought approximately forty African students to our campus at one time were very interesting and challenging. Most of these students have become influential leaders in Zimbabwe and other countries in Africa.

Many changes have occurred at Morningside College during the last third of

a century, but the camaraderie and spirit which has always been here will continue to be one of the strengths of the College. Several new buildings have been added (before Klinger-Neal, drama productions were in the area now occupied by Student Services). But it is the students, faculty, and staff that make Morningside College an outstanding institution. I know I will miss the contact with my students who have gone on to fantastic careers. But there is always the satisfaction in knowing that I may have been of some help to others and had some input in their accomplishments.

3/2 Program

To strengthen the College's pre-engineering program, two articulation agreements have recently been established.

The Morningside College-Washington University "3/2" program is just that! The student spends the first three years at Morningside taking appropriate science, mathematics, and liberal arts courses and then two years in the Engineering School, Washington University. At the end of five years, the student receives two degrees, a B.S. from Morningside and a B.S. in Engineering from Washington University. We are delighted to have established this relationship with Washington University, which has probably the best organized 3-2 program in the country. The engineering degrees available include civil, mechanical, chemical, electrical, computer-science, engineering and public policy, and systems science and mathematics.

A "2+2" agreement with South Dakota State University is essentially a transfer option. The pre-engineering student spends two years at Morningside taking appropriate courses and then transfers to SDSU for their last two years in civil, mechanical, electrical, or agricultural engineering.

Of course, the option to transfer to Iowa State University after one or two years is still a viable option for pre-engineering students and historically has been the foundation of our pre-engineering program.

We have found that a number of our recent graduates are selecting to complete their bachelors degree at Morningside, typically with double majors in physics and mathematics, and then to enter engineering programs at the graduate school level. This option has been chosen in the last several years by students who have gone into chemical, electrical, and aerospace engineering.

We believe that by expanding the options for our pre-engineering students we will be able to double the size of the pre-engineering program.

Eagle Scout Projects at the Port Neal Field Lab

This year, use of the Port Neal Field Laboratory was expanded to include some Boy Scout activities. In the fall the Leeds Scout Troop spent one Saturday helping with landscaping and tree planting around the station and learning about our research programs. During winter and spring, two Eagle Scouts projects were completed. In each case, the scouts met with Ms. Jane Hey, chair of the Biology Department, to plan their projects and work out the details of installing and monitoring them.

Paul Ragan, a senior from North High School, designed a bluebird trail and then worked with scouts to build 44 bird houses. The houses were installed in early April so that they would be ready for bluebirds looking for nesting sites in the spring. The houses are now being monitored by college students working at the field station, and they report that several houses are already occupied by bluebirds.

Josh Faber, also a North High student, proposed a tree planting project near the Port Neal Field Laboratory. Josh designed and worked with other scouts to plant 200 conifer and deciduous tree and shrub seedlings. As these plantings grow, they will provide more habitat and food sources for songbirds in the area.

Roger McGinnis Wins Nature Conservancy Scholarship

Roger McGinnis, a junior biology major, has been awarded an Anna Beal Trust Scholarship by the Iowa Office of the Nature Conservancy. Each four-year college and university in Iowa was invited to submit the names of two candidates for this award. Roger is one of five final recipients selected on the basis of college record, recommendations and final interview. The other recipients are from Luther College, Iowa State University, and the University of Northern Iowa. This summer Roger will serve as an intern for the Nature Conservancy by assisting with preserves management, planning, resource management, monitoring, landowner contacts, mapping, and preparing reports. The scholarship provides a summer stipend, expenses and summer and fall tuition for students intending to pursue a career in natural resources.

SEURP

The 1989 SEURP, the Science Education and Undergraduate Research Program, is underway. The Iowa Public Service Company is again providing funding to support research projects proposed by faculty and carried out during the summer by science faculty, Morningside College students and, in some cases, high school students. This year, twelve college and six Sioux City high school students will participate in a wide variety of studies.

Dr. Ed Shane, assisted by Morningside student Jeff Santi, will continue a study of the uptake of heavy metals, chromium III and VI by algae. Also, Dondii Cummings from West High School and Jason Schettler from Heelan High School will work with them on this research.

Dr. Joe Claflin and Mr. Rod Tondreau will be conducting a survey of fish populations in the Sioux City reach of the Missouri River. Morningside students, Suzie Galles and Jim Hettinger, will also participate in this study. Dr. Claflin will continue last summer's radiotracking study this summer by using grass carp in Brown's Lake for the study. John Hennessy, Morningside biology major, will assist Dr. Claflin. Another study on Brown's Lake will involve an assessment of plankton following the application of herbicide and a comparison of present populations with plankton populations documented in previous years. Mr. Rod Tondreau will coordinate this study with the help of Andrea Lindgren, Morningside physics and computer science student, and Kendra Hillman from North High School.

With Assistance from Morningside student Joey Schroeder and Kendra Hillman from North High, Dr. Mary Leida will continue the tick study which began in 1988. This study is designed to document the species of ticks found in the Siouxland area and to determine if the species that carries Lyme disease is present. Morningside students Troy Schlimes and Renee Cox will be assisting Dr. Leida with a survey of the protozoan parasites in small mammals such as deer mice. Dr. Leida will also be supervising a histochemistry project. The project will enable students to test some staining procedures and prepare slides of tissues for college histology classes. The project will involve a West High student, Jennifer Kuehne, and Ryan Buell, and Byran Copple from Morningside.

This year's field station-related activities will include continued development of a butterfly garden and nature trail, prairie restoration, tree planting and fly ash studies. Todd Anderson, Bryan Copple, Jean McGinnis

and John Hennessy are the Morningside College students working with Ms. Jane Hey on activities at the Port Neal Field Laboratory. They will also be developing species lists of birds and butterflies in the area, monitoring the new blue bird trail and other station-related maintenance activities. Two high school students, Jason Swim from East High and Natsha Wimmer from West High, will participate in field station studies. A videomicroscopy project which began as a pilot study by Ms. Hey last summer is being expanded this year in order to make several educational videotapes of microscopic and macroscopic subjects in the lab at the field station. This project will be conducted by Morningside students Todd Anderson and Jean McGinnis.

Education programs for Siouxland science teachers will be presented during the school year. Four evening workshops will be presented by science faculty. The workshops will begin in late afternoon with a light supper followed by a two hour program. The topics of the workshops will include:

- 1) Butterfly collecting at the Port Neal Field Laboratory, 2) Microscopy, 3) Genetics Lab Activities, and 4) Science Activities for Elementary Teachers.

In addition to the individual research projects, students and faculty meet frequently throughout the summer for seminars to present and discuss reports on the progress of their research. This enables all groups to learn about each other's research projects. All students participate in writing the final reports of their project. These reports are submitted to Iowa Public Service Company at the end of the year.

The SEURP program is in its fourth year and continues to be strongly supported by faculty and students. Research projects may be found going on in almost every spare space throughout Jones Science Hall and at the Port Neal Field Laboratory. The support for this program by Iowa Public Service is very much appreciated because it does strengthen science education at Morningside College.

ISEMs by Science Faculty

During the spring 1989 semester, two Interdisciplinary Seminars (ISEMs) were taught by Science Division faculty. Mary Leida offered a course entitled AIDS in America which focused on the current Acquired Immunodeficiency Syndrome epidemic. Some of the topics discussed included public health strategy, the issue of AIDS in schools, employment and housing rights, insurance, care-giver rights vs. patient confidentiality, drug research and fac-

ing death, in addition to the biology and epidemiology of the syndrome. Students agreed that the highlight of the course was a visit to the class by a person with AIDS following the campus-wide AIDS Awareness Week.

Kathy Buchheit organized the seminar, Aging in America. Her class discussed the history of how older people have been viewed in America and the physical, psychological, and social implications of aging. The class also considered issues which face the aged such as changes in sexuality, retirement, changes in housing and medical needs and death of a loved one. In keeping with the seminar format, lecturing is kept to a minimum while discussion following readings and writing make up the bulk of these courses.

May Term offerings included two additional ISEMs coordinated by science faculty members: Human Sexuality in the World Today by Sharon French and Alcoholism: A-Z by Carol Searls. It appears that the science faculty enjoy the challenge of examining science topics in the liberal arts context at Morningside College.

Student Receives Award

Shelly Ashley was one of two graduating seniors to receive the coveted Alumni-Senior Award at the annual Alumni Banquet. Shelly was a chemistry teaching major with a physics minor and before graduation had received a teaching contract from the Ida Grove, Iowa, School System.

Shelly's involvement on campus was very extensive to the point that one wonders how she accomplished all that she did. To mention just some of her activities, Shelly has been on the Dean's List, is a member of Omicron Delta Kappa, the National Leadership Honor Society, is in Who's Who in American Colleges and Universities, was a Resident Assistant in the dorm, and a student ambassador for Admissions. She was active in the Fellowship of Christian Athletes and Intervarsity and was in the homecoming court last fall. Somehow, Shelly also found time to play intercollegiate volleyball, basketball, and track.

At a time when there is a critical national shortage of chemistry and physics teachers, we are proud to have a graduate of Shelly Ashley's stature enter the profession.

New Faculty

Dr. Steven Nimmo-Mathematics

Dr. Steven Nimmo joined our mathematics faculty in August, 1988, right after completion of his Ph.D. at Iowa State University in non-commutative groups. He has a strong identity with liberal arts colleges as he graduated from Monmouth College in Illinois. He enjoyed his experience at Monmouth so thoroughly that he decided to become a mathematics professor. He and his wife Cindy are from Peoria.

Besides getting his doctoral dissertation published this past year, Dr. Nimmo has emphasized increased use of computers in his teaching. He will be attending a national conference in Boston this summer on using computer technology in undergraduate education. A critical factor in our being able to hire him was the fact that he is teaching all levels of mathematics. His assistance in updating the math curriculum is valued.

Carolyn Steinhaus-Computer Science

This past winter, Keith Tookey resigned his position at Morningside so that he could continue his doctoral studies in computer science at the University of Wisconsin. He is an excellent teacher and will be missed.

We had an unusually strong list of applicants for the position and were able to hire our first choice. Carolyn Steinhaus is a Ph.D. candidate at the University of Michigan where she has done substantial research on her dissertation. For the last three years she has taught full time at Georgia State University in Atlanta. Thus she brings strong academic preparation and teaching experience.

Ms. Steinhaus's specialty is in software engineering. While strengthening our computer science major with emphasis on theory, her specialty is an excellent complement to our other computer science major which emphasizes the business applications of computer science. Her expertise will be called on in updating our computer science curriculum this next year.

Laura Rydholm-Nursing Education

The most recent addition to our nursing faculty is Laura Rydholm. Ms. Rydholm obtained her Master of Science degree from the University of Minnesota. Her ten year history of experience is diverse. Before coming to Morningside, she practiced emergency room and critical care nursing in Gettysburg, PA, float nursing at Hennipen County Medical Center in Minneapolis, and telemetry nursing in the charge capacity at Humana

Hospital in Corpus Christy, Texas. She hopes to do research in parish nursing this summer. Laura joined the nursing faculty in August, 1988.

Students Present Research

The research experience is not complete when all the data has been collected or even when results have been analyzed and the final report has been written. Morningside students who participated in the SEURP program sponsored by Iowa Public Service in 1988 had the opportunity to participate in sharing research results at a professional meeting this spring—the Iowa Academy of Science which held its annual meeting at Buena Vista College in Storm Lake, Iowa, on April 21-22, 1989.

Two oral presentations were given by supervising faculty since the students involved were unable to attend:

1. "Water Quality in the Floyd River and Alluvial Aquifer" by Kelli Thomas, Abby McMeekin, and Rod Tondreau.

2. "Uptake of Chromium III and Chromium VI by Cladophora Algae" by Ed Shane and Gary Rubel.

Two other projects were presented at the poster session where students were available next to their displays to discuss their results and to answer questions from interested persons.

3. "Survey of Intestinal Helminths in the Deer Mouse, *Peromyscus maniculatus*" by Troy Schlimes, Becky Knaack, and Mary Leida.

4. "Assessment of Tick Hazard in the Sioux City Area" by Roger McGinnis, Scott Holtz, and Mary Leida.

(These posters will also be displayed in the Morningside College Library for part of the summer.)

Morningside College is proud to have four student presentations at a professional meeting. Students attending the meeting were also able to hear research presentations from other Iowa colleges and universities, symposia presentations, and keynote speakers. After this experience, their views of how science works is more complete.

New Affiliation (Biology)

The Morningside College Biology Department has recently completed a formal academic affiliation agreement with the Gulf Coast Research Laboratory in Ocean Springs, Mississippi. This agreement provides a mechanism whereby students and faculty from out-of-state institutions can use the facilities during a twelve week summer ses-

sion to pursue course work and research interests in the marine sciences.

The laboratory, under the administrative control of the University of Southern Mississippi, is located on the Mississippi Gulf Coast, just east of Biloxi.

As an academic institution, the Gulf Coast Research Laboratory offers courses in many areas of marine science to upper level undergraduate and graduate students. Because it is a non-degree granting institution, credits earned by students at the laboratory are transferred directly to Morningside College and may be applied toward the student's college program.

The facilities at the Gulf Coast Research Laboratory will also be available for May Interim field trip activities. A May, 1990 trip to the Gulf Coast is presently being planned. The class will be housed in a dormitory and will have access to laboratory space and kitchen facilities. Studies of estuaries, salt marshes, barrier islands, ship yards, seafood research facilities, and the French Quarter in New Orleans will all contribute to the breadth of the educational experience offered by Morningside College.

Dr. Joe Claflin, Professor of Biology, has been appointed the Morningside College Campus Coordinator of Interim Activities and Summer Course Offerings at the laboratory.

The 1989 Summer Teaching Program at the lab includes the following courses in the marine sciences: Oceanography, Marine Invertebrate Zoology, Marine Aquaculture, Marine Ecology, Early Life History of Marine Fishes, Salt Marsh Plant Ecology, Marine Vertebrate Zoology and Ichthyology, Marine Chemistry, Marine Microbiology, Ecology of Tidal Marshes, Coastal Marine Geology.

Nursing Alumni Reception

For the past two years, the Nursing Department has been hosting a reception honoring alumni during Homecoming Weekend. This year the honorees are the graduates of the class of 1979. The reception is planned for 10 a.m. to 12 noon on Saturday, October 21st and will be held in the Nursing Department. All nursing graduates are welcome to stop in for a cup of coffee. Changes that will be evident to returning alums will be in the Learning Resource Center and Lounge where a second computer and printer have replaced the infamous Dukanes and Lippincott Learning System filmstrips.

Plan ahead to attend this reception, meet old friends, and be brought up-to-date on the latest in the Nursing Education Department.

FACULTY ACTIVITIES

Jane Hey, Biology Department Chair, is chairman of the Iowa Academy of Science Public Information Committee. She also continues to coordinate the SEURP project which operates under Iowa Public Service sponsorship. During the Summer of '89, Jane will direct a videomicroscopy research project and field station development activities. Jane has been working with Boy Scouts on Eagle Scout projects at the field station.

Mary Leida, Biology Department. Two of Mary's summer '88 research students presented poster papers at the annual Iowa Academy of Science meeting. She attended Life Sciences Symposium at ISU and participated in a workshop on gel electrophoresis. She has done considerable community volunteer work including judging a science fair, presenting an Early Childhood workshop on "Beans and Eggs", and being a visiting biologist at Whittier Elementary School. Mary also was a freshman advisor this past year.

Steve Nimmo, Mathematics, published the paper "Anticommutative Derivation Alternation Rings" in the journal, Algebra, Groups, and Geometries. Steve is working on a database written in DBASE IV which he hopes to market in Illinois. The database allows vehicle information to be put into individual records and then prints out on various state forms. He attended the Iowa section meeting of the Math Association of America and a conference at MIT on the use of Computer Algebraic Systems in math courses.

Janet Philipp, Nursing Education. Janet edited a collection of papers written by her students who participated in the 1988 May Interim trip to the Southwest - "Exploring Health Care of the Southwest Native American: An Anthology". She reviewed the latest

edition of Spradley's text, Community Health Nursing: Concepts and Practice. Janet is a member of the Plymouth County Health Planning Committee and attended the 13th Annual Community Health Nursing Conference at Chapel Hill, NC.

Edward Shane, Chemistry. Dr. Shane presented papers on "Chromium Uptake by Algae" and "A Model of Academic/Industry Cooperation" at the Iowa Academy of Science annual meeting. He is chair of the IAS Chemical Education section. He presented his Chemical Magic Show at Sunnyside Elementary School. Ed has been appointed Chair of the Chemistry Department of Morningside College and Acting Chair of the Physics Department for 1989-90.

LaVone Sopher, Nursing Education. LaVone attended five continuing education seminars including "Neuro Trauma" and "The Future of Nursing". She was a guest speaker at a meeting of the Iowa Association of Nursing Students, North High School, and several non-nursing courses on campus. She is President of the District One, Iowa Nurses' Association, and serves on the State Board of Directors. LaVone is a member of numerous organizations including the Siouxland Emergency Nurses' Association. She attended the ANA's Biannual Convention in Louisville and earned status as Physician-Designee in E/OPD at St. Luke's Regional Medical Center. She has been selected for Who's Who in American Nursing 1988-89.

Doug Swan, Chair of the Mathematical Sciences Dept., completed a successful Fall 1988 sabbatical to develop his background in computer algebraic systems (CAS). He redesigned the Differential Equation course to include both algebraic and numerical com-

puterized solution techniques. This involved using muMATH and DERIVE and writing several programs in PASCAL to illustrate the powers and limitations of various numerical methods. He presented a paper to the Iowa Section of the Math Association of America on using CAS packages in teaching differential equations. During his sabbatical, Dr. Swan also developed a new course, Modern Geometrics, to be added to the math curriculum in 1989-90.

Nursing Department News Student Lounge Open

The Department of Nursing Education underwent a bit of remodeling this past year. Friends and alumni responded to a letter seeking funds to furnish a student lounge in memory of Kathy Moore. Kathy was a 1980 BSN graduate of Morningside who died recently of leukemia. Her parents established a memorial in her name and specified that the monies be utilized by the Nursing Department. The student lounge has taken over half of the Learning Resource Center and boasts of tables and chairs, a refrigerator, coffee pot and a microwave oven.

Students Elected to State Offices

Three nursing students joined the Iowa Association of Nursing Students (IANS) and were elected to state offices in October, 1988 at the convention held in Cedar Rapids, IA.

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Alumni Update

Name _____ Class _____

Address _____

Undergraduate Major _____ Advanced Degrees/School _____

Recent Employment _____ Honors _____

Activities and items of interest _____

Send to: Jane Hey, Division Chair, Morningside College, Sioux City, Iowa 51106



FIELD TRIPS

On May 8, 1988 twelve students and Dr. Joe Claflin began a three week May Interim Field Trip to the Pacific Northwest. The objective of the excursion was to examine the biological diversity and ecology of the temperate rain forests on the Olympic Peninsula and the intertidal flora and fauna of the Oregon coast.

Five non-traditional students were among the eight biology majors and four non-majors participating in the field experience. The Oregon State University Marine Science Center at Newport provided laboratory space for in-depth examination and

study of marine specimens, student seminars, and discussions of coastal and estuarine ecology. A county park in the mountains provided an ideal setting for studying the Olympic rain forest.

A wide variety of scientific and cultural experiences contributed to the success of the Interim course. These experiences included visits to the Mammoth Site in Hot Springs,

SD, Wind Cave National Park, the Canadian Museum of Natural History in Victoria, BC, the Makah Indian Cultural Center in Neah Bay, WA, the Oregon Dunes, and a bog community.

The personal benefits gained by thirteen individuals traveling and studying together for twenty days are not easily measured. The assumption is that personal growth, understanding, tolerance, and cooperation were all enhanced during the many hours of travel and study.

A recently acquired academic affiliation with the Gulf Coast Research Laboratory in Ocean Springs, Mississippi will provide the stimulus for planning the 1990 Interim Field Trip.

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Susan Hochwender, RN Degree Completion student, is the state newsletter editor. Colleen Sperry, senior ('90), is serving as membership chair and Becky Knaack, senior ('90), is serving as nominations chair. These three students were able to attend the National Student Nurses' Association Convention held in Cincinnati, Ohio, in April 1989.

Morningside nursing students, as they become more professionally astute, are more active in their own nursing club activities. The nursing leadership is promoting additional student membership in IANS.



ALUMNI UPDATES

Class of 1959

Chuck DenHartog, M.A. Washington University, is a Senior Research Associate for DuPont in Troy, MI. He resides in Rochester Hills.

Jerry R. Maycock, Ph.D., Washington University, is Dean of the faculty and head of the Science Department, North Cross School, Roanoke, VA. Received 1988 Teacher of the Year award by the Virginia Association of Independent Schools. Teaches chemistry and physics and coaches soccer. Serves as an adjunct faculty member at Virginia Western Community College.

Robert Mortenson received his M.S. from Syracuse and Ed.D. from Missouri at Columbia. He is now Associate Dean, College of Education at U.N.O. and was presented the Award of Merit from the American Association of Colleges for Teacher Education in recognition of outstanding achievement. He's in Who's Who in the Midwest.

Leo Roepke. Presently serves on the Morningside College Board of Directors. Leo has worked for Merrill Lynch Pierce Fenner and Smith since graduation and is presently

Senior Resident Vice President for Arkansas. For relaxation, Leo enjoys golf, scuba diving and reading.

Class of 1969

Pamela (Woods) Coad, MAT, Morningside College. Teaches in the Sioux City Community Schools. Presently on sabbatical leave to help set up a Magnet School program in Sioux City.

L. Ed Cox is a computer systems analyst for Polk County Information Services Department, Des Moines. He enjoys canoeing, float trips, and playing volleyball.

Dennis D. Henrichs. Is marketing manager for Mobay Corporation, Agricultural Chemicals Division, in Kansas City, MO. Has received various sales and marketing awards. His interests include running, golf, fishing, hunting, and horticulture.

Murl E. Kjar. Division Sales Manager for Miles, Inc. - Pharmaceutical Division. In 1988 he was presented the President's Club Award Winner. He is married to Terri, a librarian in the Lewisville, TX, Public Library and has two sons, Chris and Jason.

William L. Koontz, MD, Iowa. He conducted his residency in OB-GYN at the Medical College of Virginia and was assis-

tant Professor of OB-GYN at the University of Louisville. He is currently Director of Maternal-fetal Medicine, Medical Center of Central Georgia, Macon, and Assoc. Prof. of Obstetrics and Gynecology at Mercer University School of Medicine. Dr. Koontz is researching obstetrical ultra sound and prenatal diagnosis.

Donald Niven, Lincoln, NE is a tool and machine design engineer for the Brunswick Corp. Has worked in a number of projects including MX and Minuteman missiles and the Space Shuttle. He is married to Pattie (LaFleur) and has two sons, Matthew and Mark. Enjoys hunting, fishing, boating, and playing basketball with his boys.

Jennifer (Lewis) Ortman is a high school Spanish teacher in Canistota, SD.

Steven Rozek is manager/regulatory compliance for Fort Dodge Laboratories, Inc. For relaxation, Steven golfs, gardens, and collects coins.

B. Dennis Sharp, MS in Business Administration from UNO, is company controller for Imperial Casualty and Indemnity Co. in Omaha.

Mark Titus, DVM (Minnesota) is living in Jackson, MN and working as a veterinarian.

Alumni Update, continued

ian for the Veterinary Services Dept. of Oxford Veterinary Labs, Worthington.

Allen Widrowicz is completing his MAT (1989) at UNL while teaching math and computer programming at Macy, Nebraska Public Schools. He is also a part-time instructor at Nebraska Indian Community College, Winnebago where he is Chairman of the Curriculum Committee. He is also a member of the Nebraska Math Scholars Program.

Class of 1979

Patricia Hagan Bollin teaches kindergarten at Gehlen Catholic Schools, Le Mars, IA.

Donna Christensen until recently lived in Wyoming where she had a small business designing and manufacturing Wyoming wildlife stuffed toys. She now is in Nipomo, CA, training for management with a wholesale cash and carry chain where she hopes to learn the skills to mass-produce her stuffed toys in Wyoming on a larger scale.

Sarah (Bentzinger) Clarahan, MA, Iowa, is presently an admissions representative at Morningside College. She formerly taught math at Solon High School, IA where she was the 1988 Teacher of the Year. Her cheerleading squad at Solon placed second in the national cheerleading competition.

Norma (Hendricks) Dorn is employed by the State of Wisconsin as an examiner for the Beaver Dam Eye Study which does research on glaucoma, cataracts, and macular degeneration. Norma previously worked as an RN in the Beaver Dam Community Hospital. She, her husband, and their son enjoy bowling, golfing, and camping.

David Fravel is teaching chemistry at Heelan High, Sioux City. He serves as head coach for cross country and boy's track. He and his wife Jo Williams ('80) have two children, ages 6 and 7.

Anna Miller Garnant has worked for the past six years on the colon, rectal, urology floor of Abbott-Northwestern Hospital, Minneapolis. She is married with two daughters and a son. For fun Anna bikes, gardens and golfs.

Deb (Kraayenbrink) Getting is working at Community Memorial Hospital in Hartley where she is a staff/surgical scrub nurse.

James Kloeppel is currently a science writer/editor at Georgia Tech Research Institute, Georgia Institute of Technology in Atlanta. He has published two books - Realm of the Long Eyes: A Brief History of Kitt Peak

National Observatory and Danger Beneath the Waves: A History of the Confederate Submarine H.L. Hunley. He recently built his own house. For relaxation, he pursues historical research on fossils and dinosaurs. James enjoys camping and hiking with his wife and two sons.

Steve Kiel, M.D., Michigan State, is entering his final year of a psychiatry residency at the University of New Mexico School of Medicine. He is married to Sheryl and enjoys camping, fishing, skiing, hiking, traveling, and gardening.

Keith Kohler is a field lab technician in the Entomology Dept., Iowa State, and a research assistant in the Agronomy Dept. He is currently working on an MS in Agronomy and conducting agricultural soils management research as a graduate assistant.

Deb Lebo, BS/Certificate in Physical Therapy from Northwestern, is working as a physical therapist at Iowa Methodist Medical Center, Des Moines. You'll find Deb cycling with the Des Moines Cycle Club.

Pam Miller, MBA from South Dakota, is an accountant with Iowa Public Service Co., Sioux City. She has a Chartered Bank Auditor certification. Pam serves on the Board of Directors of the Siouxland Y and the Morningside College Alumni Association. She gives career talks in area middle schools.

Jeffrey B. Pape, JD, Iowa, is an attorney/partner with Young, Wooldridge and Paulden in Bakersfield, CA.

Lynn Mikkelsen Posey is working as an advanced emergency medical services coordinator and clinical director, Sioux City. Honors/Awards include A.C.L.S. Inst., PHTLS Inst. and TNCC Inst. She plays tennis and is an animal advocate for the Humane Society.

Beverly Smith is working part-time as a Medical Technologist at Ellsworth Municipal Hospital, Iowa Falls, while keeping track of Benjamin, 3 years. Beverly worked until 1986 as a laboratory department head. She enjoys playing the church organ and accompanies the choir.

Charles Smith, BS in Civil Engineering from SDSU, has completed coursework towards MS in environmental engineering. He is a Senior Facilities Engineer for Control Data Corporation and has received several performance awards from CDC. Charles enjoys fishing, hunting, golf, and his work!

Ralph Smith is a software engineer for Telos Federal Systems, Lawton, OK.

LaVone Sopher (Bradley) MSN, University of Texas, Arlington, is also a Certified Emergency Nurse (CEN). LaVone is an Ass't

Professor in the Nursing Education Department, Morningside College and also an on-call staff RN at St. Luke's Medical Center. She is presently president, District One of the Iowa Nurses Ass'n. She is a member of numerous organizations including Sigma Theta Tau, AAUW, and the Emergency Nurses' Ass'n.

John Steele, CPA, has been a staff accountant, senior accountant, and manager with Arthur Anderson and Co. of Omaha for ten years. John has just joined Werner Enterprises, Inc. as controller. He is married to Deb and has two children, Laura and Sarah. (John's sister, Dr. Marty Knepper, chairs the English Dept. at Morningside College.)

Ronald John Thompson is a real estate sales associate with American Dream Realty in Sioux City.

Liz Tott of Minneapolis is a medical/surgical sales representative for Professional Medical Products - Parke Davis. Her outdoor interests have taken Liz backpacking in Tanzania, Africa, climbing Mt. Kilimanjaro in Kenya, and king crab fishing in Alaska.

Kae Tessman Tritle of Des Moines has been a special case nurse (newborn intensive care) since 1986 at Mercy Medical Center. Involved in a new wholistic health program as an RN working in a church as a health education counselor and advocate.

Katie Van Beek is working as cardiac rehabilitation coordinator and staff nurse at the Northwest Iowa Health Center, Sheldon. Katie's husband Steve is a farmer, and they have three children - Ben, Amy and Keith.

Jill Viotor-Foster of Oklahoma City serves as cardiovascular research nurse at the Oklahoma University Health Science Center and also as clinical nursing instructor at the Frances Tuttle Vocational Technical School. She and Mike have two daughters, Samantha and Mallory.

Pam Yockey has worked at the St. Luke's Regional Medical Center in the intensive care unit. She is married with three children, Chris, Shawn, and Jennifer. She is active in coaching soccer and T-ball.

Janet Libbie Young, M.A. in Mathematics, USD, taught high school math at Jefferson, SD for eight years. Now she's completing her second year at West High in Sioux City. Janet coaches 9th grade volleyball and enjoys aerobics and softball.

Other Classes:

Thomas Bachmann ('86) recently completed his MA in Physics with electronic instrumentation emphasis at Mankato State

Alumni Update, continued

University. He is employed at Condux International, Inc. of Mankato, MN.

Carl Bylin ('68) MS in Forest Biometrics, Michigan State, works as an operations research analyst for the U.S. Forest Service in the Ozark National Forest, Russellville, AK. He received Certificates of Merit - 1986 and 1987 and is involved in Geographic Information System (GIS), computer programming for timber activities and modeling of forest plans. Carl and his wife Nancy are active in Boy Scouts and enjoy fishing and canoeing.

Dale Flinders ('39), MA in Geography from the University of Illinois with postgrad work in meteorology at MIT, is a retired career Air force officer (Colonel) with Legion of Merit with Oak Leaf Cluster. He worked primarily as a meteorologist in the Air Force with assignments all over the world including Burma, China, and Spain. Dale culminated his 30 year career as Director of Scientific Services for the Air Weather Service worldwide organization. In retirement, he pursued his second love, singing with wife, Nadine (BMus '39), and extensive world traveling. In 1988 they celebrated their 45th wedding anniversary in Kuming, China.

Bette Nelson Gluchacki ('80) MS in Nursing, Michigan, recently married and moved to Los Angeles where she's employed by the Children's Hospital in the Dept. of Nursing Research and Development. Bette evaluates new products and equipment for use by the hospital.

Raymond E. Kaufmann ('53) Grad school at University of Minnesota in aerospace and mechanical engineering, has worked for Honeywell for 32 years where he is now Chief Engineer. He has worked on control systems for spacecraft including Mercury, Gemini, Apollo and the Space Shuttle. In 1988 he received Honeywell's Lund Award for service to humanity. He

also farms up to 800 acres, is president of Golden Valley Sports, Inc., a girl's fast pitch softball team.

Rose Marsh ('86) is working on a Masters in Special Education through the College of St. Thomas. She is presently an LD teacher at Morgan Park Jr. High, in Duluth. She and her husband Jon have two children, Jonna and Jacob David.

M. Lee Schott ('68) is a self-employed farmer and computer consultant living in Gaylord, MN. He and his wife Sue have four children (Stephanie just finished her freshman year at Morningside). He enjoys building Heath kit computers, TV, stereo and other items.

Larry Sorensen ('62) MAT from Morningside. He is presently a PTF clerk for the U.S. Postal Service for Newell and Storm Lake where he lives with Arlene and their daughter Lori. He enjoys bowling and playing cards.

Bonnie (Hovel) Freeman ('67) of Whitehouse Station, NJ, is on sabbatical from math/computer teaching to pursue a master's degree with emphasis on computer education.

Carol (Pencook) Werner ('70) is now employed by the Environmental and Energy Study Institute as Program Director for Energy and Climate Change in Washington, DC.

S. Ron Oliver ('70) completed his Ph.D. in computer science at Colorado State University. He is now an Associate Professor in the Department of Computer Science at CAL POLY in San Luis Obispo, CA, where he resides with his wife and two children.

Louis O. King (x70) MD from Temple University Medical School was elected Fellow of the American College of Cardiology in recognition of outstanding work in the field of cardiology. A native of Guyana, South

America, Dr. King has maintained private practice in Naples, FL since 1981 and was recently appointed an F.A.A. examiner.

David Clause ('83) D.D.S., Iowa, is now a partner at the Lor Ray Drive Family Dental Clinic, North Mankato, MN. He just had an article on allergic reactions to local anesthetics published in the Journal of General Dentistry.

Sharon Van Wettering ('84) was recently promoted to head nurse of a surgical floor at High Plains Baptist Hospital in Amarillo, TX.

Lynne Kraayenbrink ('85) was promoted to case manager at Bivins Rehabilitation Center in Amarillo, TX.

Steve McMullen ('85) was promoted to programmer/analyst at Iowa Beef Processors in Dakota City.

Eugene C. Bovee (X37), Professor Emeritus of Physiology and Cell Biology at the University of Kansas, has been named to the roll of Honorary Members, its highest rank, by the International Society of Protozoologists. Prof. Bovee has published over a hundred scientific papers on protozoa. He is co-editor and contributing co-author for Illustrated Guide to Protozoa.

Mark Fegan ('75) is a math and computer science teacher at Peru State College.

John Wycoff ('80) D.O. Kirksville College of Osteopathic Medicine, has opened his office in family practice medicine and obstetrics in Lansing, MI.

Lance Lund ('88) received his MAT in chemistry from Mankato State and is teaching chemistry at Waseca High School and physical science at Owatonna High School, both in Southern Minnesota.

Sara Ulven ('88) completed the U.S. Air Force military indoctrination for medical service officers at Sheppard Air Force Base, TX.

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