Alumni Newsletter

Science Division

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

Sioux City, Iowa

Shane Receives Award and Hosts Party

At May graduation, Dr. Edward Shane was presented with the Sears Roebuck Foundation's Teaching Excellence and Campus Leadership Award. Through this program faculty members are recognized nationally and receive an award of \$1,000. Ed joined Morningside's Chemistry Department in 1975. He has taught a range of chemistry courses including general, environmental, analytical, instrumental and physical as well as Microcomputers Today and Tomorrow. He was selected as Faculty Person of the Year in the early 1980's. For the past five summers he has been a faculty participant in the SEURP program by working with college and high school students on science research projects. His activities in the community include working with the AID Center, SCANAR, Sierra Club, Earth Day Steering Committee and First Congregational Church. He has served on the Academic Council as Division Chair of the Natural Sciences from its inception until this year. This year Ed was elected to the position of Faculty Representative to the Board of Directors. He is also acting chair of physics and chair of the chemistry department. This award is recognition of Ed's leadership for instructional and academic support. He is involved with his students in every aspect of the learning process including advising, responsible planning and classroom learning. He has championed many important campus issues such as strengthening the general studies core, setting aside money for the purchase of equipment, and allocating more funds for academic support. Ed has been very effective because he researches a problem and then works and speaks effectively to promote its solution.

Upon accepting the Sears Award, Ed commented that the award should be for all faculty and proposed a faculty party to celebrate. It was a good party!

Dr. David Groh. Dr. Groh joins the

Physics/Engineering Department following

the retirement of Dr. Robert Wood Green

who chaired the department for three dec-

ades. Dr. Groh received his Ph.D. in physics

from the University of Illinois in 1986 and

followed this with two years on the Physics

faculty at Northeast Missouri State and one

year at Southwest Oklahoma State Univer-

sity. He has spent several summers in col-

laborative research at Michigan Technologi-

cal University. David has lost no time be-

coming oriented to the Department's pro-

gram. He extensively revised the Engineer-

ing Graphics course and took a lead role in



designing a revision of the Physics/Engineering curriculum (see separate article) that was approved this past spring. During the summer 1990 Dr. Groh will direct a computational physics undergraduate research project at the College. David is married to Karen, who holds a Masters Degree in biophysics, and has three children including Erin who was just born in the spring.

Dr. Larry Martin. Dr. Martin joined the Chemistry Department following the retirement of Dr. William Yockey who retired after a thirty-five year association with Morningside College. Larry brings with him ample college teaching experience. His Ph.D. in organic chemistry from the University of Illinois(1979) was followed by postdoctoral research at Colorado State University and teaching assignments at Syracuse University and the University of Tampa. Dr. Martin has already taken an active role in faculty affairs and has offered valuable insights in review of the chemistry curriculum and upgrading of the chemistry laboratories. Dr. Martin will continue his research interest in organometallic chemistry the summer of 1990 as he directs undergraduate research projects on polymer recycling via catalytic cracking and the use of a bisrhodium complex in hydroformylation reactions.







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Claflin Honored

Each year the student honorary society, ODK, recognizes an outstanding faculty member. This year, a member of the Biology Department, Dr. Joe Claflin, received that distinction as Faculty Person of the Year! He has certainly earned the respect and affection of his students and colleagues.

Dr. Claflin came to Morningside College in 1984 and has been viewed as a valuable asset for the sciences ever since. He has taught botany, ecology, field biology, human anatomy, vertebrate anatomy and embryology, evolution, and biology seminar, some on a rotating basis. He is especially noted for his interesting field trips.

Each May interim, Dr. Claflin has sponsored an extended field trip to another part of the country where diverse ecological habitats may be studied. Most recently, he has taken students to the Pacific Northwest (rainforest and "cold" marine ecology) and the Mississir



marine ecology) and the Mississippi Gulf Coast ("warm" marine ecology). Dr. Claflin has also sponsored a number of student research projects as part of SEURP including fly ash reclamation and fish telemetry. He is a past president and current member of the Faculty Senate and he advises Phi Eta Sigma, the freshman men's honorary society.

This fall Dr. Claflin will assume the additional duties of chair for the Natural Sciences Division. One wonders if he will have any time left for golf and tennis? Good luck, Joe.

Morningside Hosts Physics' Meeting

On March 30-31, 1990, Morningside College was the proud host of the Spring 1990 Zone 9 Meeting of the Society of Physics Students. Ten colleges and universities and one high school sent a total of 56 faculty and students to the meeting. Participants came from as far away as Cape Girardeau, MO. The highlight of the meeting came when John Hauptman of Iowa State University spoke on "High-Energy Physics, Today and Tomorrow". Professor Haupman's speech was informative and well received. Dr. Larry Martin of Morningside College also spoke on "Science in Science Fiction Movies", which became the topic of conversation for the rest of the meeting. Seven students, including Daniel Linden from Morningside College, also gave talks on topics ranging from superconductors and choas to polymers and free-fall apparatus. Besides the speaking events, the social events on Friday and Saturday evenings (particularly the volleyball and other athletic activities at the College's new HPER Center) were also very much enjoyed.

Morningside College was congratulated for organizing a successful and productive meeting. Dr. David Groh of Morningside College, the chief organizer of the meeting, was particularly praised for all his time and effort. Congratulations to Dr. Groh and Morningside College's Society of Physics Students Chapter!

Biology Interim Field Trip

Our recent affiliation with the Gulf Coast Research Laboratory in Mississippi provided the incentive to organize the 1990 Biology Interim Field Trip. Exposure to the facilities at the lab and to the coastal environment will hopefully stimulate students to consider expanding their biology program with academic work in the marine sciences.

Eight students and Dr. Joe Claflin spent ten days at the lab in Ocean Springs, Mississippi. Activities involved both field and laboratory work as well as exposure to the on-going research programs at the University of Mississippi facility. Boat trips to offshore islands and estuaries provided opportunities to carry out a variety of sampling procedures followed by laboratory discussion and identification of diverse marine organisms.

Our visits to historic sites such as Fort Gaines in Mobile Bay, the New Orleans French Quarter, Natches and Vicksburg Civil

War battlefields, all provided new experiences for these students. Flood waters in Arkansas put a temporary "damper" on activities, but, not on enthusiasm. A final visit to the Ozark Underground Laboratory near Bull Shoals, Missouri, was extremely enlightening from both a geological and a biological perspective. I hope these students will no longer fear caves nor the bats that inhabit them

As in the past, outcomes of these excursions provide not only new insights into the sciences, but opportunities for enhanced



personal growth. Tolerance, self-discipline, and team work are all essential as students pursue their academic and personal lives.

What's New in Chemistry/Physics/Engineering

The Chemistry and Physics/Engineering Departments had a busy and productive year. Dr. Edward Shane assumed the position as Chair of the Chemistry Department and Acting Chair for Physics/Engineering. Dr. Larry Martin joined the chemistry faculty, and Dr. David Groh joined the physics/ engineering faculty.

The Physics Department has had extensive change. Dr. Groh, a strong computationalist, has implemented the most significant changes-in computing. Two new Gateway 2000 IBM compatible computers, 5 Apple IIe computers, and numerous peripherals and software programs have been obtained by the department in the past year. The Gateways will be used for AutoCAD (Computer Aided Design), FORTRAN and other general student and faculty uses. The Apple IIe's will be used to develop a complete set of computer-interfaced laboratories for the General Physics courses; about onethird of all laboratories will be interfaced to the Apples. A new IBM compatible computer lab and a new mainframe system in Jacobsen Hall, both of which will be installed

Although faculty energies are primarily channeled in teaching and research on-campus, they are also active off-campus as unofficial representatives of the College to an unexpectedly large number of community groups. A sampling of faculty outreach activities in the past year gives a taste for the range of this special service offered by the faculty.

A common topic of conversation among the science faculty is the acknowledged decline nationally in the number of students who are selecting careers in the sciences, health sciences, and mathematics. This year the Chemistry/Physics Departments decided to address the issue by preparing a Speaker's List of faculty who were willing to give talks in area schools. Dr. Shane was invited to four area high schools to present talks on the Ozone Layer Controversy, the Greenhouse Effect, and Water Quality issues. Dr. Martin gave a talk on Science in Science Fiction Movies to a regional meeting of the Society of Physics Students. Dr. Groh gave a Liquid Nitrogen (and other) demonstration to a science class from Humboldt that came on Morningside's campus for a tour of the Physics Department.

Three special workshops were offered on campus as opportunities for area teachers to upgrade their teaching skills. Dr. Leida directed a workshop for biology teachers on during the summer 1990, will also be available to physics and engineering students.

The entire physics curriculum has been revised with a new emphasis placed on special student projects and research. During the fall of 1990, students will work on projects in the new physics fields of high temperature superconductors and chaotic dynamics. Also, to keep the department upto-date, a new course in particle physics was added.

The engineering courses were upgraded for better articulation to engineering schools and for further development of the new 3-2 double degree engineering program. For instance, a new engineering design project has been included in the Engineering Graphics course. The students form design teams which work together to develop a proposal for a typical (yet simple) machine part—as if they were a design team with major corporations.

The Chemistry Department received a major, cosmetic face lift during the summer of 1989. Everyone agrees that a new Science Building is needed in the near future; but in

Outreach Activities

Genetics; Dr. Shane offered a workshop for elementary teachers on Experiments in the Physical Sciences; and Jane Hey and Tim Orwig prepared a workshop at the Port Neal Field Station on Butterflies. In each case, several other science faculty volunteered their time as assistants.

Dr. Swan consulted with the Lawton-Bronson High School Mathematics Department on restructuring their advanced mathematics offerings and helped a Cherokee Junior High School teacher prepare a talk to 300 junior high students to encourage them to take mathematics in high school.

Jane Hey and Ed Shane were on the steering committee that organized the Earth Day 1990 celebration for the Siouxland area. Over one thousand enthusiasts turned out in Riverside Park for this 10th anniversary celebration of the original Earth Day.

Dr. David Groh serves on the steering committee of the newly formed Siouxland Science Alliance which brings together area science teachers and faculty from Morningside and Briar Cliff Colleges to discuss current issues in the teaching of science.

Talks almost too numerous to count were given to church groups and service organizations. Talks were given on AIDS (Leida), Environmental Ethics (Shane), Desert Biology (Claflin), and Ethical Dilemmas in Health Care (Sopher). Jane Hey, in addithe interim, improvement of the laboratory space was needed. Alumni from 1965 would have felt right at home in the chemistry laboratories of 1988 since they were largely unchanged and were most noteworthy for their hodge podge collection of tables and storage cabinets. Needless to say the impression made on prospective students was less than desirable. The appearance of the department needed to be brought into alignment with the quality of the program.

The analytical, organic, instrumental, biochemistry, and general chemistry laboratories and the chemistry storeroom were given a unified appearance with the addition of laboratory benches and wall cabinets that matched closely those added in the last major renovation in the 1960's. The new environment is much more pleasing for students and faculty alike.

On the research front, the summer of 1990 will find Drs. Groh, Martin and Shane directing summer undergraduate research projects under the SEURP program which is funded by Midwest Energy.

tion to chairing the local chapter of the Audubon Society, gave talks to the Ikettes, the Sioux City Women's Club, and the Quota Club and presented some biology lab activities for a second grade Brownie troop.

The Nursing faculty addressed health care issues in their presentations. LaVone Sopher and Mary Hettinger gave several talks on their analyses of the area health care response to the United Airlines Flight 232 disaster. Janet Philipp delivered the keynote address on "Parents and Teachers: A Special Partnership" to the Tri State Early Childhood Educators Conference. Kathy Buchheit and Laura Reydholm each presented seminars, sponsored by the Kellogg Foundation, to area parish nurses. Laura is serving as a parish nurse for the Faith Lutheran Church in Marcus, IA.

Morningside is fortunate to have a dedicated faculty whose influence extends well beyond our campus boundaries.



Seurp Project Funding Renewed

The Iowa Public Service Company has agreed to fund a second four-years of the Science Education and Undergraduate Research Program (SEURP) at Morningside. This program was initiated in 1986. The purpose of SEURP is to offer a variety of research experiences for Morningside College and local high school students, to encourage faculty involvement in research, and to offer science workshops for area pre-college science teachers. Since its inception, the summer research program has provided assistantships for forty-six Morningside College science students. Seven college faculty and one research associate have been involved in the program and twenty-one high school students from the Siouxland area schools have participated in summer research.

Eight research projects are being conducted this summer. Dr. Claflin and Jean McGinnis are preparing a video teaching demonstration of cat anatomy and dissection techniques for use in the human anatomy class.

Dr. Mary Leida is directing a study of local-host parasite associations in Woodbury County. She is being assisted by Pam Young Kayl, Gerben Earth, and Becky Mason from East High.

Dr. Larry Martin is supervising two chemistry research projects, polymer cracking and hydroformylation. Eric Hunt and two high school students, Megan Shane (North High) and Jeff Merkel (East High) are also participating in this research.

Dr. Ed Shane has proposed a project to develop chemistry spreadsheet applications for use in chemistry classes. He is being supported by Jeff Santi and Mary Jane Johnson, a West High School student.

Dr. David Groh and his student assistants, Randy Blessing and Jennifer Kennelly, of Heelan High, are working on a project in the Physics Department. Their research will focus on a computer method for diagonalizing large matrices.

Field Station-related projects will include continued monitoring of butterfly populations, prairie restoration, fly ash studies, bird inventories, bluebird trail development and completion of the nature trail brochure. Bryan Copple, Jean McGinnis, Maria Hay and North High student Jason Kolbe, will be working with Ms. Jane Hey and Dr. Joe Claflin on activities at the Port Neal Laboratory.

Softball Game

Yes, we report on softball games in the Newsletter. This spring saw the First Annual student-faculty softball game get off to a rousing start. Some one dozen faculty from Jones/Jacobsen Hall, about twenty students, and numerous spectators gathered on Bass Field the day before final exams for ofternoon of sun, fun, and softball. The fact that the score was Faculty 24 to Students 16 may have something to do with the scheduling of the game before final exams. In any event, faculty and students performed admirably although the suspicion is that the faculty had more sore muscles the next day than did the students. Some faculty feel that the students secretly planned to make the faculty run around the bases just so they would hobble around during finals. Credit is due to Dr. Larry Martin of the Chemistry Department for organizing the event.

Where They're Going...

The 1989-90 biology graduates have packed up their books and set off for new vistas, but most of them will be unpacking those books again in the fall for further study.

Four of our graduates have been accepted to medical schools. Tom Kenny will be attending the University of South Dakota at Vermillion. Cory Roberts will go to the University of Nebraska, while Anne Marie Reed and Scott Holtz will be attending the University of Iowa. Two more graduates, David Faldmo and Suzie Galles, will also proceed to the University of Iowa for a physician's assistant program.

Troy Schlines has been accepted to Iowa State University's veterinary medicine program. Todd Anderson has begun graduate studies at the Eppley Cancer Research Institute which is affiliated with the University of Nebraska in Omaha, Roger McGinnis will be moving to Rapid City to study paleontology at the South Dakota School of Mines. Finally, Carol Jalas has accepted a job teaching biology at Ida Grove High School.

Congratulations, graduates!

Nursing Alum Speaks at Maud Adams Research Day

Bette K. (Nelson) Gluchacki, RN, MS ('80) was the featured speaker during the Eighth Annual Maud Adams Research Day. She energized the audience with her enthusiam for and remarks about "Changing Nursing Practice Through Research". Bette highlighted three rich sources for research problems, namely, nursing rituals, clients, and the environments in which clients find themselves including the hospital, home and neighborhood. Throughout her speech, Bette provided examples of nursing research which changed nursing practice within hospitals and community agencies. Bette encouraged the nursing majors and graduates to continually ask the questions, "Why, Why not, and What if?" In so doing, they would continue to base their practice on research.

Bette currently serves as Clinical Nurse Specialist at the Children's Hospital in Los Angeles. Since graduating from Morningside College in 1980, Bette earned her Master of Science in Parent-child Nursing at the University of Michigan-Ann Arbor. She has held positions in a variety of health care institutions including Mott Children's Hospital in Ann Arbor and Shriner's Hospital for Crippled Children in Los Angeles. Her research interests focus primarily on self-care and families.

Bette Gluchacki, RN, MS, has made many noteable contributions to the nursing profession in ten years. We are proud of her!

May/Interim Trip to the Southwest

Ten Morningside students spent May Interim learning about and participating in Southwest Native American Indian culture on an eleven day study tour. The trip was designed to give students "hands on" experience with traditional Indian culture and healing practices and with the Western model of health care.

At Rock Point on the Navajo reservation, students attended an all night Blessing Ceremony. Participants sat on the sand floor of the hogan as the Medicine Man chanted songs, prayed, and related stories in the Navajo language. At Chinle, Arizona, a modern Indian Health Service hospital includes a traditional healing room for patients unable to leave the hospital. Students were paired with nurses for part of the day and became familiar with the health care problems encountered there. An average of 300 people visit the hospital outpatient department each day. In Ganado, a Navajo-owned forty-five bed hospital was toured. It is the only nongovernmental hospital on the reservation. Like the dominant culture, lifestyle diseases prevail with diabetes, alcoholism, and trauma as major concerns.

Eight hundred foot sandstone cliffs provided a spectacular backdrop for Anasazi ruins and present day Navajo farms and dwellings on the floor of Canyon de Chelly.

May Interim Trip cont' continued from page 4

A hike into the canyon provided a close-up view of the 800 year old ruins. Additionally, students enjoyed some challenging rock climbing on the red sandstone buttes of Rock Point.

A walk through Walpi Village at First Mesa on the Hopi Reservation revealed 400 year old stone homes and natives eager to display and sell their handcrafted pottery. The Laguna Reservation near Albuquerque, New Mexico was the final stop on the trip. The impressive community health and social services system is designed to improve the health status of all Pueblo residents while continuing to respect and encourage traditional beliefs and activities.

The Native American strives to retain the ancient traditions while concurrently being catapulted into the Western culture. The study tour enabled students to view, first hand, the pride, frustrations, and challenges of the American Indian. Student attitudes were enlightened and their knowledge was expanded by this introduction to health beliefs and care of the Southwest Native American.

The interdisciplinary study tour was led by Janet Philipp, Assistant Professor of Nursing Education and Dennis Smith, Director of Indian Studies.

Faculty Activities

Doug Swan and Steve Nimmo of the Computer Science/Mathematics Department have been developing and using computer algebraic systems (CAS) labs in calculus, trigonometry, and differential equations. This spring they presented a paper featuring some of the best CAS labs at the Iowa section of the Math Association of America which met in Ames. Doug is also the newly elected president of Interfaith Resources, a consortium which raises money for local help through food pantries, housing assistance, etc. He and his wife Rita continue to actively support CHILD, Inc., which is devoted to making health care for children a legal duty.

Carolyn Steinhaus, Computer Science, attended the Small College Computing Symposium in April.

A publication on Excitonic Effects in Absorption Spectra of Metals by David Groh, Physics/Engineering Department, has been accepted for publication by Physical Review. David was a presenter at the Materials Research Society on Electronic Structure and Optical Properties in Cr+3 Oxides. He has also attended the Iowa Association of American Physics Teachers meeting in Ames and a Tectronix minicourse. Since joining the faculty last year, David has been actively involved in upgrading courses and curriculum in the Department and promoting our pre-engineering program.

Kathy Buchheit, chair of the Nursing Education Department, is making steady progress toward a doctorate in Educational Administration at the University of South Dakota, Vermillion.

Janet Philipp, Nursing Education, recently presented a paper on "Use of Group Reminiscience Therapy for Depressed Elderly in Long Term Care Facility" at the U.S.D. Women's Research Conference. She also attended a Cancer Education Workshop for Nurses working with Native Americans in Salt Lake City, Utah, and was a delegate to the Iowa Nurses Association Convention in Des Moines. Janet has been promoting Writing Across the Curriculum by attending the Iowa Writing Project meetings and giving a presentation for teachers at Whiting, Iowa.

Laura Rydholm, Nursing Education, attended an organizational conference as part of a five million dollar Kellogg Foundation Grant proposal for parish nursing, case management, and health advocacy for the elderly. She also serves as parish nurse at Faith Lutheran in Marcus, IA.

LaVone Sopher, Nursing Education, is president of District One and board member of the Iowa Nurses Association. She is an advisory board member of the Siouxland Head Injury Association and works on call as a staff nurse in the emergency out-patient department at St. Luke's Hospital. LaVone and Mary Hettinger have published several articles on the nursing response to last summer's United Airlines Flight 232 crash in Sioux City.

Mary Hettinger, Nursing Education, is the principal investigator in a study researching the long-term psychological effects upon area registered nurses of the crash of United Airlines Flight 232. She has given presentations on the "Effects of Disasters on Registered Nurses" to the American Association of Critical Care Nurses National Teaching Institute in San Francisco, Briar Cliff College, Sigma Theta Tau, Research Day, and at the U.S.D. Women's Research Conference.

Mary Leida assumed the position of Biology Department Chair this year. She was a panelist representing the career of biologist for the Women in Science Program at Briar Cliff College and a co-presenter for an inservice workshop on writing for the teachers at Whiting Community School. Again this year, two of Mary's SEURP student research assistants, Troy Schlines and Joey Schroeder, presented poster papers at the Iowa Academy of Science meeting at Drake University.

Jane Hey, Biology, was appointed to the Iowa Integrated Roadside Vegatation Man-

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	Alumni Update
Name	Class
Address	
Undergraduate Major	Advanced Degrees/S
Recent Employment	

Graduate Survey

We have surveyed the graduates from our Mathematical Sciences Department from 1983 to the present. What we discovered to our delight was the wide acceptance of our alums whether in math or computer science in master's degree programs.

Here is a list of 20 graduate programs where our alums have been admitted. In addition to this, two are completing Ph.D. programs and two have become C.P.A.s.

Boston University South Dakota University University of Houston State University of New York-Buffalo Iowa State University Texas Tech. University of Iowa **Tulane University** Kansas University UCLA Mankato State University of Massachusetts Naval Air Development Center University of Texas - Austin North Dakota State University University of Utah Northeastern University Washington University San Jose Western Illinois

The Top Fives Jobs

Rand McNally has recently published the Jobs Rated Almanac. This is similar to their other ratings of cities to live in, places to vacation, etc. They consider several factors to determine a rating and then make a composite rating.

For the Jobs Rated Almanac there were six factors considered for their rating. The first factor was salary level from the starting level throughout the career. The second was stress from the job. Third, were such items from the work environment as length of hours and hazards. Fourth was the outlook for promotions and personal employment growth. Fifth was job security and the related topic of growth in the market place of that occupation. Finally, physical demands of the employment were considered as a factor.

Foresters and football players were near the bottom, but the top five careers by their rating system were all careers that our Mathematical Sciences Department prepares students for.

These professions are: #1 Actuary, #2 Computer Programmer, #3 Computer Systems Analyst, #4 Mathematician, and #5 Statistician.

KME 25th Anniversary

Math Science News

The Iowa Gamma chapter of Morningside College is celebrating its 25th anniversary as a chapter of Kappa Mu Epsilon, national mathematics honorary. The membership initiation ceremony took place this past April with the induction of eight new members.

In April of 1931, Dr. Emily Kathryn Wyant formed the first chapter of KME. Dr. Wyant, considered the founder of KME, recognized the need for a mathematics honor fraternity that would promote the interest of math in students and faculty at the undergraduate level. The very first chapter of Kappa Mu Epsilon had 24 members. Today that membership has grown to over 30,000 and over 100 active chapters.

The purpose of KME is to further the interest and appreciation of mathematics as well as to inform students of the opportunities available in the area of mathematics. To be a member of KME the students must have completed at least three semesters of the college courses, rank in the upper 35% of their class, and have completed three college math courses including one semester of calculus with an average of a "B" or better.

Kappa Mu Epsilon has come a long way at Morningside since the first initiation of 24 members in 1965. There has been an accumulation of 267 members over the 25 year span. Furthermore, the Iowa Gamma chapter at Morningside was the host for the Nineteenth Biennial Convention in April of 1973.

Thank you to all KME members, both past and present, for your interest in mathematics and in the Iowa Gamma chapter here at Morningside College.

Sincerely,

Dan V. Wenhan, Chapter President

New Masters Degree Program in Computer-Based Learning

Morningside College is leading the way in helping Siouxland teachers integrate computers into their classrooms. The new Masters of Arts in Computer-Based Learning provides experienced teachers with the opportunity for in-depth study toward the integration of computers into their classrooms.

By integrating computer use into the graduate curriculum, Morningside will use a student-centered, hands-on approach to teach computer-based learning concepts.

Associate Professor Bill Steinman of the Mathematical Sciences Department saw the need for this type of program in the Siouxland area. He developed the curriculum and teaches one of the program's courses each term through the Graduate Division at Morningside. The other courses are taught with adjunct instructors from the local school districts. "Having people from the community involved in the instruction of this program helps alleviate some of the computer phobia many teachers have", said Steinman.

Recently, one of this program's masters candidates, Ken Steuve, won the Computer Teacher of the Year Award for the State of Iowa, sponsored by IBM. A total of seven graduate students are in the process of completing this degree to date. Several more have already made verbal commitments to enroll in this masters program. Many other teachers are enrolling in these classes, not for the degree, but just to become familiar with educational computing.

Faculty Activities continued from page 5

agement Technical Advisory Committee. In October she gave a presentation at the National Association of Biology Teachers meeting in San Diego about the SEURP program titled "An Industry-College Model for Undergraduate Research and Science Education". This year she served as chair of the Natural Sciences Division.

This past year, Larry Martin, Chemistry, has attended workshops on Molecular Biology at U.S.D., Computational Chemistry by Microcomputers at Calvin College, as well as the MACTLAC meeting and the Iowa Academy of Science annual meeting. He has completed a prepublication review of portions of "Chemistry", 4th ed by Chang.

Ed Shane, Chemistry Department Chair and acting chair of the Physics Department, has been given another "hat" to wear as Faculty Representative to the Morningside College Board of Directors. This year Ed attended the MACTLAC and Iowa Academy of Science meetings where he is chair of the Chemical Education Committee. Ed was selected as a national winner of the Sears Roebuck Foundation "Teaching Excellence and Campus Leadership Award" (See story). The Natural Science Division has certainly been well represented by its faculty this year.

Student Awards

Every year the Chemistry Department awards the CRC Press Freshman Chemistry Award to the outstanding freshman general chemistry student. This year the award went to Lyle Vander Schaaf from Orange City, Iowa. Lyle is a National Merit Scholar who plans to double major in biology and chemistry. Acceptance to medical school is his long-range goal.

The Robert Wood Green Award to the outstanding junior student majoring in the physical sciences was presented at the spring Honors Convocation by Mrs. Ruth Green to a junior physics major, Andrea Lindgren. The award consists of a \$500 prize and a small engraved silver tray. Andrea's name will also appear on a large silver tray that will be on display in Jones Hall. The award was established by Andrew H. Lupton and the U.S. Message Corporation in honor of Dr. Robert Wood Green.

Ms. Lindgren, the newly elected President of the student body, was selected on the basis of her demonstrated excellence in the classroom and her contributions to campus life. Andrea represents the fourth generation in her family to attend Morningside College. Her present plans are to use her double major in physics and mathematics as a spring board into law school where she may use her technical education as an entry into an area like patent law.



CLASS OF 1960

R. Bruce Bedell, M.D., University of lowa, conducted his residency in ophthalmology and a post-doctoral fellowship at the University of Iowa. He has had teaching assignments at Iowa, University of South Dakota Medical School and family practice residency locally. Dr. Bedell is currently in private practice as an ophthalmologist and Medical Director of Care Choices H.M.O. of Sioux City.

Alumni News

John D. Gilbert resides in Edmond, OK, and is Director of Wholesale Systems for Fleming Companies, Inc., the largest wholesale food distributor in the U.S.

Gerald McManis received his M.S. in computer science from the University of Nebraska. He is the manager of information systems for Vickers, Inc. He lives in Omaha, NE and enjoys skiing, choral music, and antique auto restoration.

Terry Roberts, D.V.M., is a veterinarian and partner in Animal Care Center of San Diego and Escondido. Dr. Roberts and his wife Nadine have four children - Tamson, Todd, Troy, and Ty.

CLASS OF 1970

Mary Rouse Ansoff lives in Alexandria, VA. She is a senior systems analyst for the Student Loan Marketing Association in Washington, DC.

Craig Wayne Bainbridge, M.D., University of Iowa, also completed an M.S. in biostatistics at Iowa and an M.B.A. at the University of South Dakota. Dr. Bainbridge is board certified in internal medicine, pulmonary disease, occupational medicine and critical care. He is a pulmonologist in Sioux City and a member of the Morningside College Board of Directors.

Randall P. Bergen, Doctor of Podiatric Medicine, is presently a podiatrist in Sioux City. He is past president of the Iowa Podiatric Medical Society. He enjoys golf, bowling, rose gardening, and his children.

Gary A. Besley received a B.S. and D.D.S. in dentistry from the University of Illinois. He is a dentist in Freeport, IL.

Susan Hamilton Brown, M.S., is a medical technologist. She has been director of several medical laboratories in Florida. She lives on a small farm in Brandenton, FL, with her husband Michael and their two daughters.

Dennis Alan Chapman is a criminalist for the Iowa Division of Criminal Investigation. Histeam received the governor's STAR Award for their work on recovery and identification of the fatalities from the United Airlines Flight 232 that crashed in Sioux City last July. **Bruce S. Holmgren** attended the Graduate School of Banking at S.M.U. in 1980. He is employed in Kansas City, MO, as a Review Examiner - Special Investigations for the Federal Deposit Insurance Corporation.

Abe Malae, M.S. in Physical Chemistry, Iowa State, MSCE, and MPW from the University of Pittsburg. He was a regional finalist for the 1988 White House Fellowship. Abe is Executive Director of the American Samoa Power Authority, lives in Pago Pago, and enjoys tennis.

Si Ron Oliver, M.S. Computer Science, University of Kansas, Ph.D. Computer Science, Colorado State University. He was the first person to be sponsored by Sciences Applications International Corp. for a fellowship for doctoral graduate study and in 1990 won a Meritorious Performance and Professional Promise Award from California Polytechnic. Although he keeps active with mountaineering, backpacking, and cross country skiing, he returned this year to give a talk to Morningside students on computers.

Monte H. Russell, D.D.S., University of lowa, has a general dentistry practice in LeMars, IA. He has served as president of the N.W. District of Iowa Dental Assoc., the LeMars Sertoma Club, and St. John's Lutheran Church. He enjoys golf, hunting, and fishing.

Scott L. Schreiner, J.D. is partner in the law firm of Ruth, Schreiner, and Christian, and has served as Assistant County Attorney in Owatonna, MN since 1975. He and his wife Deb have three children ages 11, 8, and 6. Scott stays young by coaching his son's hockey and baseball teams and playing fast pitch softball, aerobics, and golf.

David I. Wong, M.A., Math/Computer Science at U.S.D., Vermillion. He is a computer operator for Houston Processors in Houston, TX. David has become a permanent U.S. resident. He is interested in astronomy, telescope construction, music, and reading.

CLASS of 1980

Roger L. Bobolz is Assistant Vice President for the Morningside Bank and Trust in Sioux City, IA. He is secretary/treasurer for the Morning Optomist Club, a member of the Morningside College Chief Club, and an avid golfer and racquetball player. Roger and wife Roxanne have two sons, Justin (9) and Cody (4).

Ronald R. Bottger received an M.B.A. from U.S.D., Vermillion and is controller of Cloverleaf Cold Storage in Sioux City. He

Alumni Update, continued

has served as the officer in charge of the Naval Reserve Naval Supply Depot Detachment in Sioux City, as a Junior Achievement advisor, and as a projects chairman for Optimists International in South Sioux City.

Cpt. Craig P. Brandt, AN, is employed as a senior clinical nurse in the medical surgical intensive care unit at the Army Community Hospital in Ft. Leonard Wood, MO. He was recently accepted for the U.S. Army Nurse Anesthesia Program which is affiliated with Texas Wesleyan College.

Paul J. Bush is a forensic chemist for the Iowa Divison of Criminal Investigation in Des Moines, IA. Paul has been taking graduate courses in molecular biology at Drake University and has presented papers at the Midwest Association for Forensic Scientists Meetings and the Iowa Bar Association.

Lynn Dykstra Davis is progressing toward a M.S. degree at De Paul. She is currently a staff nurse for Chicagoland Hospice Care. Lynn enjoys quilting and volunteer work with the La Lache League. Lynn and her husband Andrew were part of an international observer team to examine victims of the Chernobyl accident five weeks after the explosion. They have a two year-old son, Paul.

Dean L. DuVal, Ph.D., Analytical Chemistry, Iowa State University. He is employed as group leader in the Regulatory and Analytical Division of Proctor and Gamble Company in West Chester, OH. In his spare time, Dean helps out with raising four children, Douglas, Dennis, Darren, and Deanne, golfing, bow-hunting, softball, and 4-H County Council.

Cindy Carroll Erickson lives in Lake View, IA. She has recently been employed as a nurse at Loring Hospital in Sac City and for Northwest Iowa Orthopedics in Sioux City. She is kept busy by her son (4) and daughter (2).

Barbara Frantz, M.Ed. in health promotion/exercise physiology from the University of Texas in Austin. She works in the Cardiac Catheterization Lab at the Seton Medical Center in Austin. Barbara has been active as a task force member of the Texas American Heart Assocation.

Jean M. Giddings, D.O. College of Osteopathic Medicine, Des Moines, IA. Jean is a physician for Mercy Medical Clinic in Des Moines, IA.

Frank Heffner, M.A., U.S.D. in Vermillion. Frank is a computer consultant and part-time instructor at Western Iowa Tech Community College in Sioux City. His interests are military history and artificial intelligence.

Jeffrey R. Jones, D.O. is a general practitioner and emergency room physician at Enid Memorial Hospital in Enid, OK. He was named Rookie G.P. of the Year by the State of Oklahoma in 1986-87.

Karlee Lombardo is currently a research scientist with Battelle Memorial Institute in Columbus, OH.

Lynn Pelton is a C.P.R. instructor in Belleview, WA. She writes that currently her major duties are housewife and mother of two girls ages 2 and 4.

John Plesher, M.B.A., University of Nebraska. He lives in Lawrenceville, GA where he is a senior industrial engineer for Hormel.

Deanne Lacey Quayle lives in Forest City, IA with her husband Dick and daughters Megan (7) and Kit (5). They are expecting a third child in September. Deanne is a part-time Tupperware dealer.

Julie Huebner Sacco lives in Omaha with her husband and daughter Hannah (2). Julie is a nurse at Nebraska Methodist Hospital on the "High Risk Obstetrics and Gynecololgy" floor.

Julie Movall Sievers is a chemist providing manufacturing support, inspection of incoming materials and environmental monitoring for the Rock Island Arsenal in Illinois.

Tammy Augustus Watson is an investigator for the State of Iowa Insurance Division in Des Moines, IA.

John O. Wycoff, D.O. is a physician specializing in family practice and obstetrics at St. Lawrence Hospital in Lansing, Michigan and a medical director for local HMO Care Choices.

OTHER CLASSES:

Christine Stalzer Stevens, a December 1989 graduate in Math and Chemistry, is now a graduate student at the University of Iowa in Math Education. Her husband Max Stevens (May, 1989) is attending the University of Iowa Medical School.

John R. Whittstruck, Class of '65. John has a Ph. D. in Higher/Post Secondary Education Administration from Syracuse University and has coauthored over 30 studies on issues related to state and national higher education policies and institutional practice. He lives in Jefferson City, Missouri and serves as Associate Commissioner of Higher Education. John wrote last fall to say how much he values his experience at Morningside as a student of Drs. Green. Yockey and Rundell and to tell us that he enjoys reading the Science Division Newsletter.



Science Division Morningside College Sioux City, Iowa 51106

