

NEWSLETTER

MORNINGSIDE COLLEGE, SIOUX CITY, IOWA

SUMMER 1986

Dr. Rundell retires from teaching

Dr. Harold Rundell, Professor of Biology, is retiring at the end of this summer. Dr. Rundell has been a teacher at Morningside since 1959. For most of those years he served as the Chairman of the Biology Department. He received a B.S. at South Dakota State College and a Ph.D. from the University of Iowa. Dr. Rundell's specialty is parasitology.

Dr. Rundell is beloved by students and

infamous among the college faculty for his many stories and philosophizing. A mark of his effect on students is that he was chosen as Faculty Person of the Year this spring.

To recapture the essence of Dr. Rundell's career at Morningside, we are including the Proclamation written for him on the advent of his retirement by Dr. Al Sellen, Professor and Chairman of the Department of History and Political Science. The Proclamation was adopted by the full faculty.

Hear Ye! Hear Ye!

Whereas Harold Rundell has taught at Morningside College with excellence and devotion for 28 years, and

Whereas he took a pay cut in leaving Parsons College to come to Morningside in 1959 - and he has not complained about salaries ever since, and

Whereas Dr. Rundell has ably headed the Department of Biology and the Division of Natural Sciences, and

Whereas he regularly, without question, always has attended the wonderfully enjoyable faculty meetings even though he would rather be camping at Brooks Lake in Wyoming, and

Whereas Rundell developed the summer parasitology research project, not in Jones Hall or even Lewis Park, but at Lake Okoboji for the benefit and pleasure of many Morningside students, and

Whereas he dearly loves all regulations, the idiotic minds that think them up, the ambiguous language in which they are stated, and the inadequate means to enforce them, and

Whereas, with him as watchdog chairman of the Petitions Committee, one could say that the students could fool some of the Petitions Committee all of the time, and the students could fool almost all of the Petitions Committee some of the time, but the students could not fool Sheriff Harold Rundell any of the time, and

Whereas Harold Rundell has more jokes to tell than any other two persons, and he tells them twice as well to twice as many people, and

Whereas he significantly guided the pre-medical program of some fifty students who later became physicians, and

Whereas this friendly curmudgeon has a negative streak and we could count on statements of irascibility, disparagement, expostulation, remonstrance or disapprobation on almost anything, and

Whereas with Harold came Fern Rundell who over the years has made important contributions in such places as the Registrar's Office and the Morningside College Women's Club, and

FOCUS ON: Student Nurses

BRENDA CURRY, (Ponca, NE). A graduating senior who plans a nursing practice and a masters degree in rural health and gerontological nursing. Brenda has accepted a staff nurse position at Marian Health Center on a post-surgical unit. She has been the president of our Student Nurses' Club and on the Dean's List five semesters.

BARB KAUFMAN, RN (Sioux City). One of the first graduates from our RN Degree Completion Program. Barb is a wife and mother of two very active children. In addition, she is a staff nurse at St. Luke's Regional Medical Center on the pediatric and pediatric intensive care units as well as a community education instructor in maternal-child health. Barb was recently inducted into the Beta Nu Chapter of Alpha Sigma Lambda - an honor society for students in continuing higher education.

BARB EVELETH (Salix, IA). A senior who returned to education after beginning a family. She is married to Ken, and they have two children. She states, "coming back to school is the best thing I've done in my life." She plans a career in patient education, particularly in discharge planning. Barb was selected by the U.S. Public Health Service to be commissioned as a Junior Assistant Health Officer at the U.S. Public Health Service Hospital at Winnebago, NE, this summer.

JOANNE FORNEY (Sioux City). A senior who is the current president of our Student Nurses' Club. JoAnne was chosen to participate in a 10-week summer internship program at LaCrosse Lutheran Hospital in LaCrosse, WI.

SHARON CROSBY, RN (Ponca, NE). A senior in our RN Degree Completion Program. Sharon is married and works at Marian Health Center as a house supervisor. She was recently awarded one of ten \$1,000 academic scholarships by the Oncology Nursing Foundation for notable professional expertise in cancer nursing. In addition, she was inducted into the Beta Nu Chapter of Alpha Sigma Lambda.

Faculty Activities

DR. JOE CLAFLIN, Biology. Is directing summer undergraduate projects on reclamation of a fly ash depository, experimental tree/shrub plantings at the IPS/Morningside Field Station, and a small mammal population survey in the vicinity of Brown's Lake, Snyder Bend and Winnebago Bend. Led a May Interim trip to the southwest United States. Has been a speaker for several local organizations and was Keynote speaker for the Morningside Science and Technology Forum in the fall. Attended the Missouri River Symposium held in Omaha, NE.

DR. ROBERT GREEN, Physics. Served his sixth year as Zone 9 Councillor for the Society of Physics Students. Attended the Zone 9 SPS regional conference at South Dakota State University and the Annual National SPS Council meeting in Washington, D.C., in April.

Visited 5th grade students in several local schools giving a presentation on the planets and the solar system. As follow-up fifty local 5th graders came to Morningside to see a film and slides about the solar system. Luckily the sun was out that day, and the students were able to observe the sun spots with the aid of the telescope.

MARY HETTINGER, Nursing. Attended meetings of the American Nurses' Association Leadership Development Conference in Washington, D.C., the 1986 Iowa Nurses' Association Convention, the Iowa Nurses' Association Legislative Day in Des Moines, the 1987 National League for Nursing Annual Convention in Washington, D.C., and the National Conference on Measurement and Evaluation in Nursing. Researched, designed and implemented (with LaVone Sopher and Trudy Crawford) a prototype of self-directed learning modules for Morningside's RN degree completion program. Received an award for the "Best District Newsletter" from the Iowa Nurses' Association. Spoke on stress reduction at East High School.

JANE HEY, Biology. Awarded a scholarship to attend the nationally recognized seminar at the Catholic University of America in Washington, D.C., on "Introduction to Tissue Culture and In Vitro Toxicity Testing". Took graduate courses in Biochemistry and Bacterial Genetics at the University of South Dakota during the school year. Attended a workshop on "New Curriculum Materials in Environmental Education" at the State Conservation Education Center. Was a presenter/facilitator at the 5th Annual Loess Hills Seminar.

JANET PHILIPP, Nursing. Presented research study "Assessing Health Protective Behaviors Among Rural Adults" at the 13th Annual Research Conference, St. Louis University School of Nursing. Consultant to the Sioux City Urban Indian Health Services

on health care needs of the Urban Indian. Chair of the newly established Morningside College Wellness Committee. Completed her M.S. in Family Nursing from Creighton University.

EDWARD SHANE, Chemistry. Attended the ACS Biennial Conference on Chemical Education and the 3-day C.C.C.E. National Computer Workshop on Microcomputer Interfacing.

Co-authored the article, "Fluorescence Quenching Method for Determining Equilibrium Constants for Polycyclic Aromatic Hydrocarbon Binding to Dissolved Humic Material", which appeared in the November 1986 issue of Environmental Science and Technology. Presented a paper at the annual meeting of the Iowa Academy of Science on "Fate of Heavy Metals in an Iowa Oxbow Lake"; this paper was based on work done in the summer 1986 as part of the College's Science Education and Undergraduate Research Project.

LAVONE SOPHER, Nursing. Continues as a staff RN 2-6 days per month in the Emergency Room, St. Luke's Regional Medical Center. Gave talks on seatbelt safety as a member of the Iowa Seatbelt Cadre. Lectured on Acid-Base, Fluid Electrolyte concepts at St. Luke's. Attended Iowa Nurses' Association state convention, the INA Legislative Day, the National League of Nursing National Convention, and several continu-

ing education seminars. Received national certification (CEN) from Emergency Nurses' Association.

WILLIAM STEINMAN, Computer Science. Bill has spent all summer taking graduate computer science courses that will be used towards his doctorate in computer science. He is working in a unique program through Nova University that allows him to do most of his study here in Sioux City via electronic mail and part of his work at the University's home campus in Florida.

KEITH TOOKEY, Computer Science. Published/presented a paper at the Small College Computing Symposium on "Teaching 8086 Assembler Language: A Gentler Approach". Keith will be gone from the College in 1987-89 on a sabbatical and leave of absence to complete his doctorate in computer science at the University of Wisconsin, Madison.

WILLIAM YOCKEY. See separate NEWS-LETTER article on page five. Has attended numerous meetings and lectures on topics such as F19 NMR Spectroscopy, Developments in the Health Sciences, Nutrition and Cardio-vascular Disease, Employment Opportunities in the Sciences, and Mechanisms by which Toxins Inhibit Protein Synthesis. Attended workshop on Biological HPLC and Zeeman Applications for Atomic Absorption.

Continued from page 1

Whereas students knew that they were responsible in tests for everything that Rundell said, and everything that he thought he had said, and

Whereas he gave up smoking after 44 years - his wisest move to end the stupidest thing he ever did, and

Whereas Harold does not care what you call him - as long as it is Run'dell or Rundell', and

Whereas a Rundell scowl, if deserved, speaks a thousand words, and

Whereas Dr. Rundell was one faculty member whose sense of standards kept him from the temptation of grade inflation; to him an A.B. remained a degree, not an "A" grade for "B" work, and

Whereas he returned to teaching after his heart problem and has been able to teach with us until now, and

Whereas he is moving to retirement in order to follow his own dictum - to enjoy life, and

Whereas Rundell wants to exchange class work for woodwork and committee work for needle work, and

Whereas Harold Rundell has a wonderful sense of humor and that he understands that these statements are made in admiration, respect, and affection as well as in jest.

Be it hereby resolved with affirmation by all of those here assembled that Morningside College thanks Harold Rundell for his distinguished service and offers its best wishes for much happiness and good health in the years to come. Please come back to see us.

April 29, 1987

Class Notes

Take a moment to fill in the "Alumni Update" to let us know what you are doing.

CLASS OF 1957

JAMES CORNILS, History. Masters in Natural Science, University of South Dakota. M.A., Eastern Michigan University. Teaches mathematics in the Ann Arbor public schools and the Washtenaw Community College, Ann Arbor, MI. Has also taught mathematics at a Federal Correctional Institution, Milan, MI, and the Huron Valley Women's Prison. Coauthored a text in Mathematics for grades seven and eight. Regular attendee at NCTM national meetings.

JAMES HARVEY, JR., Pre-dentistry. D.D.S. from Creighton University. Now a self-employed dentist in St. Paul, MN. For relaxation enjoys fishing, hunting, and boating.

M.Y. NASIR, Chemistry. A practicing family physician in Monterey Park, CA. Serves as Secretary of the Board of the Garfield Medical Center and is President-elect of the Arab American Medical Association. Active in alternative health care plans. Enjoys jogging and travel.

Class of 1967

GARY COLLINS, Biology. M.S. from South Dakota State University. Working in Maryland as a biologist for the National Institutes of Health Institute on Aging. Interests in immunology and molecular biology.

DONNA (Bekler) CONSIDINE, Chemistry/Biology. Medical technology degree from St. Lukes, Cedar Rapids. Has worked as a medical technologist; but she and her husband Paul, an anesthesiologist, are now kept busy parenting twin daughters and two sons. Donna and her family enjoy skiing. They also raise Morgan horses.

MARVIN CRIM, Elementary Education/Biology. Has two M.A. degrees from the University of South Dakota. Is a fifth grade teacher in Sioux City. For summer diversion Marvin is a crop hail adjuster and is a member of the Iowa Air National Guard. Received the Outstanding Airman of Iowa, 1980, from the Guard. Interests are varied and include reading historical novels, bicycling, church work, and travel.

THOMAS EDWARDS, Mathematics/Physics. A member of the United States Air Force and presently stationed in New Mexico, Tom also has a M.S. in Engineering Physics from the Air Force Institute of Technology.

BONNIE HOOVEL FREEMAN, Mathematics. Teaches computer education to grades four through eight at the Tewksbury Township School, New Jersey. Has taught elementary mathematics and algebra. Now

teaching a course for Jersey City State College on "Microcomputers for Educators". Indicates that Howard (class of '66), Ian (age 10), and Sarah (age 4) consume the rest of her free time".

JOHN FULLERTON, Mathematics. Senior Design Analyst for the Control Data Corporation. Designs and implements diagnostic software for new avionics computers used by the Navy and Air Force. Interests include radio control model airplanes, reading, and experimenting with electronics and a Zenith microcomputer.

HORACIO LEWIS, Biology/Mathematics. M.A. in Urban Education from Northeastern Illinois University. Presently State Supervisor of Human Relations and Director of Title IV projects for the Delaware State Department of Public Instruction. Also a consultant on Hispanic Outreach Projects for the Delaware Division of Alcoholism, Drug Abuse and Mental Health. Has served on numerous boards and commissions in the state of Delaware. Recipient of the "Community Builder Award" for outstanding community service from the National Conference of Christians and Jews. Has spoken and presented papers widely on subjects like race and ethnicity, Hispanic issues, and desegregation.

EDGAR LUCEY, Biology. M.S. and Ph.D. from Idaho State University. Working at the Veteran's Administration Medical Center, Boston, in research physiology.

CHARLES MASON, III, Mathematics. M.S. and Ph.D. from the University of Iowa in Educational Psychology, Data Processing. Works at the Western Hills Area Education Agency 12, Sioux City, as a computer consultant and as consultant/coordinator for Research, Planning and Evaluation, and Federal Programs.

EDWARD MATZ, Business Administration and Mathematics. Is a certified purchasing manager working as purchasing agent for the Novelty Machine and Supply Company, Sioux City.

CHARLENE SCHNEPF MEISNER, Mathematics. Has worked as a high school mathematics teacher in the Milwaukee Schools. For the last ten years Charlene has been a programmer/systems analyst for Globe-Union.

FREDERICK MITTLEMAN, Pre-medicine. M.D. from Creighton University, graduate of the Topeka Institute for Psychoanalysis. A psychiatrist/psychoanalyst, Frederick is presently Medical Director of the Research Psychiatric Center, Kansas City, MO. Honors include recognition for the highest average of his medical school class and membership in Alpha Omega Alpha, the medical honorary society.

JAMES PULLEN, Philosophy/Religion/Chemistry. B.D. from Perkins School of Theology and M.D. from the University of Iowa. Director of Adolescent Psychiatry, Broadlawns Medical Center, Des Moines.

SHIRLEY VAN RENNES, Biology/Chemistry. A medical technologist at Riverside General Hospital, Riverside, CA. Interests include plant nursery and floral arranging. Taking night classes in management and computer science.

EDWARD RHYNE, SR., Mathematics. A computer programmer for Montgomery Wards in Robbins, IL. Enjoying raising three fine children.

DARWIN SCHLOTTERBECK, Mathematics. Agent and owner of Keystone Insurance Agency with offices in Keystone and Belle Plaine, Iowa. Is involved in athletics and numerous community organizations.

BOB SHEETS, Biology. M.S. from South Dakota State University. Has been a state wildlife biologist for the Iowa Conservation Commission since 1970. Has special interest in problems associated with the Mississippi River. Has been President of the Iowa Wildlife Society and an Explorer Scout advisor. Is a Director of the Jackson County Historical Society. Surprisingly, Bob's interests include hunting, fishing, canoeing, and photography.

Class of 1977

JO KITTERMAN HAYES, Nursing. Worked as a staff nurse at Horn Memorial Hospital, Ida Grove, from 1977-85. Presently at home with her husband, Bob, raising Abigail (6) and Amanda (4).

LINDA (Fraser) GROEPPER, Nursing. Has Inpatient Obstetrical Nurse Certification through NAACOG. Working on her M.S.N. at the College of Nursing, University of Nebraska Medical Center. Presently an Instructor in maternal child health care at St. Luke's School of Nursing, Sioux City. Is married and has three sons.

TOM HAMILTON, Business Administration/Computer Science. A Programming and Development Supervisor for R & D Systems, Inc., Colorado Springs. R&D is a software development company for UNISYS, Convergent Technology, and NCR Computer Systems; the company has been rated in the top 500 Independent companies by INC Magazine. Enjoys camping, backpacking, hunting, fishing, archery and downhill skiing.

HEIDI JOHNSON, Nursing. Has worked for the last six years in the office of Dr. Robert Smith, Oral and Maxillo facial Surgeon, Norfolk, NE. Particularly interested in the maintenance of good health through exercise such as jogging (20 miles per week) and bicycling.

EILEEN MIERAS KOHLENBERG, Nursing/Psychology. M.S.N. from the University of Texas at Austin. Ph.D. candidate in Nursing at UT Austin. Has served on the nursing faculty and was chair of the Nursing Department at Morningside College when the program received its NLN accreditation.

Class Notes

Presently Visiting Assistant Professor in Nursing at the University of North Carolina at Greensboro. Also serves as a research consultant for the Moses Cone Memorial Hospital Department of Nursing.

TYLER KOKJOHN, Biology. Ph.D. from Loyola University, Chicago. Presently a Postdoctoral Fellow at the University of Illinois at Chicago. Is a Laboratory for Cell, Developmental and Molecular Biology Fellow, 1986-88. Writing a chapter for the monograph, "Transfer of Genetic Information in Aquatic Ecosystems".

KIMBERLY HELMBRECHT LAGER, Mathematics and Elementary Education. Has been teaching in the New Market Community School, New Market, IA, since graduation. Kimberly is currently K-12 librarian and teaches Algebra I and computer programming.

ANNIE WEISS-McFADDEN, Biology. M.A. in Science Education. Has taught junior high life science, algebra, and biology. Currently is a private tutor in science and mathematics. Married to Mark and the mother of Brittany (2 years). Enjoys backpacking in the Cascades, White Mountains, Grand Canyon, and Hawaii.

STEVE PERRIN, Nursing. Holds certification in Nurse-Midwifery and a M.A. in Nursing. Has worked in association with Dr. Donald Ehman M.D., Inc., Brawley, CA, and at the University of California at San Diego Medical Center. A Guest Lecturer at Imperial Valley College, El Centro, CA. Has co-authored "Pregnancy-Prelude and Birth" in *Dimensions of Fatherhood*.

SANDRA LOGAN SCHNIRRING, Biology. Finds that being the mother of two children, five years and three months, is a full-time job. In her "free time" enjoys slow pitch softball, gardening, and volunteer church work at First Methodist Church, Vermillion, SD. A loyal fan at Morningside football and basketball games as often as possible.

JANET E. SMITH, Biology/Chemistry. M.D. from the University of Iowa (1981). Urology Resident at the University of Wisconsin Hospital and Clinics from 1981-86. Endourology fellow at Hospital of the University of Pennsylvania, 1986-87. Has just begun private urology practice in Waterloo, Iowa. Co-author of numerous journal articles in medical research and frequent presenter of papers at professional meetings. For relaxation Janet enjoys stained glass work.

DEBRA STEFFEN, Nursing. Working as a Nurse Administrator for the Plymouth County Public Health Nursing Service.

DIANE ELSER THORNQUIST, Biology. Certified medical technologist. Diane has worked as a clinical laboratory staff medical technologist at the Mayo Clinic and (currently) at the Iowa Methodist Medical Center, Des Moines. Also is a clinical instructor in the School of Medical Technol-

ogy at Iowa Methodist. Member of ASMT. Is a volunteer for National Widowed Person's Services, a support group for the newly widowed.

LORI (Hillger) VETSCH, Elementary Education. For the past three years Lori has taught grades four-eight in a two-room country school north of Atkinson, NE. She notes that she and her husband (also a teacher) are "fighting to keep these schools going as Nebraska is one of the few states where country schools still exist".

SUSAN BETH KIEL WEIKERT, Nursing. Works as a Registered Nurse in the Emergency Receiving Center, Northwest Texas Hospital, Amarillo. Her spare time is occupied with her children and family activities like camping, biking, golf and softball.

LYNN MILLER WEST, Nursing. Works part-time in hospitals in Des Moines. Is the mother of three active boys- Clint (10), Justin (4), and Joshua (8 months).

Other Classes

KATHLEEN ABELS ('72), Biology. Advanced study in medical technology (MT and CLS). Microbiology Supervisor for Creighton University's pathology reference laboratory. Also supervises the Microbiology and Serology section of the lab. Serves as the Immunology Teaching Supervisor for Creighton's medical technology students. Enjoys collegiate and professional sports.

DANA (Dorband) BAGGIO ('86), Nursing. Working at the Bettendorf Health Care Center as Assistant Director of Nursing and staff nurse.

DIANA (Fidone) BASON ('72), Medical Technology. Masters of Education completed 1984. Currently working on a Ph.D. in science education at Texas A&M. Serves on the Board of the Southwest Texas Teacher Center and the Texas Teacher Center Network. Has been elected to 'Notable Women of Texas'.

DIANE BOERNER BOYER (64), Biology. M.S. and Ph.D. in Biology from Northwestern. M.S.N. in Nurse-Midwifery from the University of Illinois. Formerly Head of the Department of Nursing at Luther College. Presently Assistant Professor and

Director, Graduate Program in Nurse-Midwifery, University of Illinois at Chicago and is doing research on the prediction and prevention of postpartum depression, the effects of early postpartum discharge on low-income women, and breastfeeding and jaundice in newborns. For relaxation Diane swims and give parties.

TOM HADDAD ('83), Biology. Medical Technology degree from St. Luke's, Sioux City. Now working at Burgess Memorial Hospital, Onawa. Enjoys music and record collecting.

JOHN HERBST ('72), Biology/Chemistry. M.D. Chief of Staff at Northern Hills General Hospital. Member of the Board of Directors of Northern Hills General Hospital and the Black Hills Medical Center. Serves as President of the Lead/Deadwood School Board. Is a volunteer for a local adolescent suicide and pregnancy prevention program.

KATHLEEN FOSTER JONES ('71), Mathematics. In her fifth year in the Milwaukee school system, Kathleen is a Mathematics/Computer Science teacher at Milwaukee Washington Computer Specialty High School. Last year spent time at A.O. Smith Industries and Wisconsin Bell to learn more about computers in industry. Married to Philip with sons Michael (7) and Matthew (5).

WILLIAM JORANSEN ('66), Biology. M.S. from the Naval Post Graduate School in Computer Systems Management. Presently Division General Manager for Veda, Inc. Bill serves in the Naval Reserve.

LARRY SORENSEN ('62), Mathematics. M.A.T. from Morningside. Taught high school mathematics for 18 years in Iowa but also in the Philippines and Midway Island. Has worked for Horace Mann Insurance Co. and was Administrator of the Buena Vista Work Activity Center. Married to Arlene who teaches home economics and has one child, Lori (4).

JANET (Liibbe) YOUNG ('79), Physical Education/Mathematics. M.A. in Mathematics from the University of South Dakota. Teaches mathematics at Jefferson High School, SD, and coaches volleyball. Has two children, ages two and four, and enjoys aerobics to stay trim.



Students work at new IBM micro computer lab in Jacobsen Hall.

SEURP in second year

With support funding from the Iowa Public Service Company, the second year of the Science Education and Undergraduate Research Project builds upon the pilot studies and activities the initial year (1986). The summer 1987 program includes eight activities and a science education workshop.

FLY ASH STABILIZATION: A continuation project, the purpose of the ash stabilization project is to find biologically sound procedures to stabilize the fly ash residue produced at the IPS George Neal power plants. Summer 1986 studies identified a variety of dune grass as a prime candidate to stabilize the ash substrate. Field assessment of the growth potential and success of this species continues in the spring and summer of 1987.

PRAIRIE ESTABLISHMENT AND RESTORATION: Planning for this component occurred in 1986. Work now begins to establish the field biology study areas on Iowa Public Service property between the two George Neal power plants along the Missouri River south of Sioux City. Midgrass and tall grass prairie areas are being planted. Sign and interpretive material are being developed for these areas.

EXPERIMENTAL TREE/SHRUB PLANTINGS: This study is designed to evaluate the suitability of various trees and shrub species for windbreak and landscape plantings in alluvial floodplain habitats and to provide a diverse variety of these plants for identification and study. Planting sites will be near the IPS/Morningside Field Station.

SCIENCE EDUCATION WORKSHOP AND PROGRAM DEVELOPMENT: A science education workshop was taught in July by Dr. Joe Claflin and Mrs. Jane Hey of the Biology Department at the new Field Station. Plans are being made for a summer

1988 workshop in science for elementary school teachers.

SPECIES COMPOSITION STUDY: Small mammal populations are being studied in the vicinity of three oxbow lakes—Brown's Lake, Snyder Bend, and Winnebago Bend. The presence of other mammals and bird species will also be documented.

HEAVY METALS IN THE MISSOURI RIVER AND SNYDER'S BEND LAKE: The bioconcentration of the heavy metals—copper, chromium, lead, and zinc—in the food chain of these two environments is being studied. Metal concentrations are being monitored in sediment, water, periphyton, invertebrates, and fish.

MICROCOMPUTER INTERFACING IN THE CHEMISTRY LABORATORY: A continuation of the 1986 project, this study uses specialized data acquisition software to interface chemical instrumentation with an APPLE microcomputer. Studies with direct 'game port' data acquisition are new this year.

INTERFACING MICROCOMPUTERS IN THE PHYSICS LABORATORY TO ESTABLISH A REMOTE SENSING STATION: Methods are being developed for remote sensing of physical quantities such as temperature, atmospheric pressure, wind velocity, flow velocity of fluids, and electrical voltage, power, and current.

Morningside faculty involved in the projects are Dr. Joe Claflin, Dr. Robert Green, Mrs. Jane Hey, Dr. Edward Shane, and Mr. Rod Tondreau (adjunct). College students include Rod Chamberlain (SR), Peggy Cole (JR), Robert Conklin (SR), Susanne Galles (JR), Dee Dee Harm (JR), Dan Kruger (JR), Ron Larvick (SR), Julie Lien (SR), Juleen Meints (SR), and Julie Schlosser (SR). For the first time this year (five) outstanding high school juniors from Sioux City are also members of the research teams.

Yockey developed new technique

Dr. William Yockey of the Chemistry Department has developed the technique and instrumentation required for implementation of the first sweat test utilized in local hospitals. This procedure was utilized in St. Joseph Hospital to detect cystic fibrosis in children. The system required the development of electrical equipment necessary to produce perspiration on the arm of the patient. The perspiration was then analyzed for its sodium and chloride content since the perspiration of a person with cystic fibrosis has a higher than normal salt content. Since that time multiple variations of this procedure and other methods have been used in the study of abnormal pancreatic function.

Recently Dr. Yockey has been developing a new technique for the study of pancreatic exocrine function. This procedure utilizes a special dipeptide called Bentiromide which is orally administered to the patient. It is a dipeptide substance that is specifically cleaved by chymotrypsin, an enzyme secreted by the pancreas. The hydrolysis of the dipeptide in the small intestine produces para-aminobenzoic acid (PABA) which is subsequently absorbed by the gastro-intestinal tract and later excreted into the urine. The methodology developed measures the level of PABA in the plasma of the patient and compares it with the levels found in normal patients. Healthy individuals who receive Bentiromide have higher plasma levels of PABA than patients with pancreatic insufficiency.

The methodology and procedures described have been developed at the Marian Health Center, Sioux City, and will be utilized by their laboratory to test children for fibrocystic disease or adults for exocrine pancreatic function. The test can also be used as a tool to monitor the adequacy of pancreatic enzyme replacement therapy.

Alumni Update

Name _____ Class _____

Address _____

Undergraduate Major _____ Advanced Degrees _____

Recent Employment _____ Honors _____

Activities and Items of Interest _____

Send to: Edward Shane, Division Chair, Morningside College, Sioux City, Iowa 51106

Student clubs active

Computer Science Club

During the 86-87 school year, the Morningside College Computer Club, known up to this year as an A.C.M. chapter, decided that the availability of a local chapter of D.P.M.A. in Sioux City made it worthwhile to switch affiliation from the Association for Computing Machinery to the Data Processing Management Association. It took a considerable amount of time to organize the paperwork, so the organizational switch occupied most of the effort this year. Nonetheless, the club also managed to:

...hold 3 bake sales as fundraising activities (assisted by computer center staff).

...watch a documentary videotape on hackers.

...watch the movie "Short Circuit".

...invited Chuck Dorn from Great Western Casualty to come as a guest speaker.

...tour Joe Morton Insurance computer center.

...hold a Star Trek Computer Game Tournament.

...assist in the DPMA high school programming contest.

Next year the club will be organized and ready to go when the school year begins!

Science Club

After over a decade of hibernation, a student Science Club has been rejuvenated. Open to all Science majors, the Club was begun during the spring semester. Officers selected were: Julie Schlosser (Oakland, IA) - President; Cory Roberts (Grand Island, NE) - Vice-President; Abby McMeekin (Sioux City) - Secretary/Treasurer. With only a few occasions to meet, the students heard presentations from Morningside Students who participated in undergraduate research during 1986 and planned a surprise retirement party for Dr. Rundell. About fifteen students and three faculty helped out on a Saturday clean-up of the site for the College's about-to-be-constructed Field Station; the clean-up was followed by a lively pizza party. Morningside science students work hard and eat hard.

The Club has a solid core of about twenty-five students to begin the 1987-88 academic year. Plans for 1987-88 include a combination of (regional) guest speakers and some fun social activities.

Biology field trip takes in large area

A study of the morphological, behavioral, and physiological adaptations of plants and animals to hot environments was the thrust of this year's May Interim Field trip to the Southwestern United States. The three week trip took a class of eleven students, plus Professor Joe Claflin, from the Badlands of South Dakota, to White Sands and the Gila Cliff Dwellings in the mountains of New Mexico, across the Chihuahuan and Sonoran Deserts of southern Arizona, the Grand Canyon via Oak Creek Canyon, Zion National Park, Bryce Canyon and the return through southern Utah.

Exposure to localized geological phenomena and a brief examination of ancient Indian cultures provided a great deal of educational diversity for the class of biology, history, and psychology majors.

Highlights of the trip had to include visiting the Arizona-Sonoran Desert Museum near Saguaro National Monument, a rough, dusty, road trip to Quitobaquito Springs in Organ Pipe Cactus National Monument, and viewing the spectacular geology of Zion and Bryce Canyon. A brief, half-day visit to Kitt Peak stimulated imaginations and provided insight into the technology used by the National Observatory system to view the heavens.

Interactions between students and Professor were greatly enhanced by a wide range in ages of students (19-47), and the fact that we camped in National Parks 17 of the 20 nights. Hiking in the Coronado Forest, Ajo Mountain Bull Pasture in Organ Pipe, and Bright Angel Trail in the Grand Canyon provided more than adequate exercise for sleeping well under the desert sky.

Experiences like these, not only provide opportunities to travel, study, and examine biological and geological points of interest, but allow students, who have different backgrounds and come from different places, to interact with one another on a continual day-to-day basis. These experiences help our students become more mature, understanding, and tolerant-qualities that we promote and strive for at Morningside College.

Student Nurses Club well established

The Morningside College Student Nurses Club is a well-established student club which holds regular monthly meetings with outside speakers on health care and nursing issues. A few of the 1986-87 presentations included Project Hope, Nursing and Mental Health Care for Adolescents, and Air Force Flight Nursing. The club also sponsored successful Blood Bank Drives in October and March. One of the highlights each year is the Maud Adams Research Day, held in April, at which the students present the results of their individual or group projects.

Twelve seniors presented papers on topics as diverse as "Stress Levels and Health Behaviors" and "Perceptions of Nurses' Aids Toward Their Responsibilities in a Long-Term Care Facility." Juniors presented their community teaching projects including topics like "Coping with Alzheimer's" and "AIDS: What the High School Student Needs to Know." Sophomores presented five group panel discussions on topics like "Alcohol and Pregnancy."

MATH • SCIENCE • NURSING • ALUMNI

NEWSLETTER

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