EDITOR'S COLUMN

Greetings! We hope that you enjoy the new format for BioFeedback. We decided to redesign BioFeedback in order to make it easier to read and a little more attractive.

We would like to thank the many persons who helped with this issue including Sister Dunstan Plantenberg, Dr. R. Henry, Dr. J. Poff, Dr. E. Riordan, Philip Sinner, Lois Bichler and Pat Keneally.

See you next issue! Please don't hesitate to send us articles, ideas, or anything that you would like to see in BioFeedback. We need your biofeedback.
HENRY Writes Chapter:

Dr. Ron Henry has written a chapter entitled, "The Spirochetes", which will be published in a volume edited by the Board of Education and Training of the American Society for Microbiology. Dr. Henry's chapter concerns the human pathogenic spirochetes Leptospira, Treponema and Borrelia. The diseases Leptospirosis, syphilis, Relapsing fever, and Lyme disease are examined with respect to their clinical significance, culturing and examination of specimens, serology and treatment. This chapter was coauthored by Dr. R.C. Johnson, Medical School, University of Minnesota. The expected publication date is May 1984.

Congratuations!

BioFeedback has learned that Lorre Ochs, Senior Biology/Natural Science major, has been accepted for Early Decision at the University of Minnesota—Dubuque Medical School.

David Petullo, Senior Biology major, reports that he will attend the Baylor University School of Medicine, Houston, Texas in the fall.

If anyone else receives good news about life after college please let us know so that we can share your good fortune.

Summer Research in Iowa

The Iowa Lakeside Laboratory, which is a cooperative enterprise of the University of Iowa, Iowa State University and the University of Northern Iowa, is offering summer field studies and research. For more information, contact Stephen G. Saupe (314 SC, 363-2782).

Horticultural experience with Ivy:

Ann Rabaey, CSB Sophomore Biology major, spent January Term working in the Department of Horticultural Science and Landscape Architecture at the Univ. of Minnesota under the guidance of Dr. Wesley Hackett. Dr. Hackett's laboratory is studying the mechanism by which ivy plants switch from the juvenile phase to the adult phase.

Ann had the opportunity to learn techniques for propagating ivy plants, perform tissue culture experiments, fly to Park Rapids in a UM plane to sit in on a meeting of commercial and university horticulturists involved in introducing new cultivars to the market, and learned a variety of other techniques.

Ann boarded with Dr. James Bartz, the Chairperson of the department. Dr. Bartz has extended an invitation to other SJU/CSB students to visit and work in the labs. For more information contact Dr. Stephen G. Saupe (314 SC, 363-2782).

Nine Months in Four Weeks

Dr. Rebecca Hermes-Hafner, CSB '74, served as a medical consultant for students in Sr. Dunstan Plantenberg's January Term course, "Nine Months in Four Weeks!". Dr. Hafner spoke about a physician's concerns during pregnancy and the birth of a baby. Dr. Hafner is in private practice at Breckenridge, MN.
SCHOLARSHIPS AVAILABLE:

The Soil Conservation Society of America is offering scholarships to junior and senior college students. The scholarships are designed to assist students with the completion of their conservation-related curricula in agronomy, forestry, botany, biology and other disciplines.

The Scholarships in Conservation ($750) are intended to encourage qualified students to increase their interest in conservation, to obtain technical competence in some phase of conservation and to pursue a career in this area. The deadline for application is 1 May, 1984. For more information check the bulletin boards in the Science Center, SJU or contact Stephen G. Saupe (SC 314, 363-2782).

BIOLOGY OF THE PACIFIC NORTHWEST:

1984 is the year for BPNW, our 30-day summer field course. Because of the nature of the course much of the planning must be done very early. For that reason we are now in the process of putting our class rosters together. If you are interested in taking this course you must see Dr. Poff soon! BPNW is a 4 credit course in upper division biology. The emphasis of the course is on comparative ecology in a variety of study areas in Wyoming, Idaho, Washington and Montana. It is a great experience for anyone interested in field ecology.

LEARN ABOUT THERMAL VENTS:

On April 30th, Dr. Bruce Hill will present a program about thermal vents and the communities of organisms that are associated with these unique structures. His presentation will include a film produced by National Geographic. Mark this date on your calendars and watch for further information. This program will be a winner!

CHRONOBIOLOGY AT ARGONNE:

Paul Quiram, SJU Biology/Chemistry major, is currently studying at the Argonne National Laboratory, Argonne Illinois. Paul reports that he is involved in a research project to study the effects of electric feedback on chronobiological phenomena. He is using systems that transmit up to 100,000 volts per meter and are continuously monitored by computer. He has been spending much time studying computers and his "...first advice to anyone who considers coming here (Argonne) would have to be: get some good computer experience and be comfortable in using them".

MED TECH INTERN - DIFFERENT

Beth Ann Garni, Senior Medical Technology/Natural Science major, is currently interning in medical technology at St. Joseph's Hospital in St. Paul, MN. She reports that "...it is quite different than it was in college, but I am happy with what I am doing".

CSB STUDENTS TO PRESENT PAPERS

Margie Zobitz, Senior Biology major, and Lisa Wicktor, Senior Biology major, are going to present papers at the April meeting of the Minnesota Academy of Science. This meeting will be held at the College of St. Thomas, St. Paul, MN. Margie's paper is entitled, "Cortical structure in nondenuding and cortical morphology in dividing Pseudokernopsis rubra (Ciliophora, Hypotrichida)" and Lisa's paper is "Petrostyla weissel: Cortical structure and morphogenesis associated with cell division (Ciliophora, Hypotrichida)." Both papers are the product of January Term studies in Protozoology with Dr. Bruce Hill, who is coauthor of both papers.
HILL - MACROSCOPIC CONTRIBUTIONS:

Dr. Bruce Hill recently attended the 1983 meeting of the American Microscopical Society that was held in Philadelphia, PA. At the meeting Dr. Hill was very busy - he presented three papers and chaired two different sessions. The titles of the papers he presented are:

"Analysis of cortical morphogenesis associated with cell division in the genus Euplotids Ehrenberg 1838 (Ciliophora, Hypotrichida); "Cortical structure and morphogenesis of euplotid hypotrichs; Implication of their evolution (Ciliophora, Hypotrichida)" and "Formation of cortical domains in hypotrich ciliates".

BIRD ALERT

The Blue jay, Cyanocitta cristata, is one of our most interesting winter residents. As a member of the crow family (Corvidae), the Blue jay possesses an above average intelligence for a bird. Its raucous calls and bright blue and white plumage make this bird one of the easiest to spot on a walk through the woods or around campus. The Blue jay is larger than a robin and also sports a crested head. It is not easily mistaken for other birds in winter or summer.

by Philip Sinner, SJU
Senior Biology Major

BIOTRIVIA

What do you call a group of: (1) crows; (2) cats; (3) turkeys; (4) jellyfish; (5) geese; (6) lions; (7) rhinoceroses?

Idea by David Hermerding
SJU Senior Biology Major

From The Book of Lists

* Answers on next page *

ALUMNI

Chris Rose, CSB '74, writes that after graduation she attended graduate school in forestry and then worked as a junior forester in the San Bernardino National Forest in Southern California. For the past three years she has been the environmental coordinator in the Los Padres National Forest. She says that her "...biology background has been infinitely more useful than the forestry".

Therese Cummiskey, CSB '83, writes that she is working in a conservation job in Utah. In March she plans to go to Whitewater State Park and volunteer as an Assistant Naturalist.

Steven Stevenowski, SJU '82, has recently returned from the Peace Corps and is employed by the Dept. of Agriculture. He plans to pursue graduate studies in radiation biology at the University of California-Irvine or a Master's degree in teaching at the University of North Carolina.
**BIOLOGY QUESTION**

What is a wolverine?

One of the most misunderstood members of the animal kingdom is the wolverine. This creature has frequently been viewed as a ravenous monster, a scourge of other animals and a threat to humans. Modern research and a dedicated team of scientists have debunked these myths about the wolverine.

From 1972 to 1977 Maurice Hamocker and his colleagues trapped 24 wolverines (11 males, 13 females) near Glacier National Park and then fitted them with radio collars. The radio collars enabled the scientists to determine the range and lifestyle of the wolverine.

Adult males have a yearly range of 165 square miles, while the females generally have a range of 120 square miles. Even though wolverines are relatively small, they are able to inhabit such a large range because their feet are quite large in comparison to their body size. During the winter their feet are covered with hair providing the wolverine with natural snowshoes.

Despite its ferocious reputation, the wolverine is an inefficient hunter and must rely on carrion for a large part of its diet. Its search for food is aided by its keen sense of smell, which helps them locate food under the deep snow characteristic of its mountainous habitat.

Wolverines display little evidence of territoriality and show little defense of home ranges. These ranges often overlap among the various sexes. This lack of territoriality can be attributed to the wolverine diet of carrion.

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Thanks to this and other research, a greater understanding of the wolverine has removed some of the stigma surrounding this animal. With this information we can better protect these unique animals and the habitats they occupy.

by David Heimerding, SJU Senior Biology Major

**BIOHUMOR**

An Irish potato migrated to this country and met a lovely Idaho potato to whom he one day proposed. She consented and they were happily married. In time they had a lovely little daughter potato. Years passed and the daughter potato grew up, more beautiful than ever. One day she came to her parents and said, "I am going to marry Walter Cronkite." The Irish potato got quite upset and said, "you can't marry him - he is only a commen-tator".

Submitted by Dr. E. Riordan
CSB/SJU Biology Dept.

**ANSWERS TO BIOTRIVIA:**

(1) a murder of crows; (2) a clowder of cats; (3) a rafter of turkeys; (4) a smack of jellyfish; (5) a gaggle of geese; (6) a pride of lions; (7) a crash of rhinoceroses.
CROSS-COUNTRY SKI TRIP

The Third Annual Lake Itasca State Park cross-country ski trip was held the weekend of February 10-12. Approximately 25 students attended this gala event. The group stayed at the Weigelwood Resort located on Two Islets Lake, approximately 10 miles from the park. Don't miss this trip next year!

BAKE SALE:

The Biology Club recently held a Bake Sale to serve as a fundraiser. Proceeds were used in part to finance the Club's annual cross-country ski trip to Lake Itasca.

OFFICER ELECTIONS:

Biology Club Officer Elections will soon be here. We urge all members to participate in this election for the 84-85 BioClub officers. This is a prime opportunity to become involved in the organization.

SUBSCRIBE TO BIOFEEDBACK

If you are not currently on our mailing list and would like to receive BioFeedback, complete the following form and return it to:

David Hermerding
St. John's Univ.
Box 704
Collegeville, MN

or

Dr. S.G. Saupe
St. John's Univ.
Biology Dept.
Collegeville, MN

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