The new Physical Chemist on St. John's staff is Dr. John Sandberg. Dr. Sandberg is originally from St. Paul and attended St. John's, graduating in 1976. He did his graduate work at Dalhousie University, Halifax, Nova Scotia. His thesis work was on the transport of ions through membranes. He received his Ph.D in Physical Chemistry, Membrane Electrochemistry.

Dr. Michael Vanderweer is another new addition to the staff at SJU. He did his undergraduate work at Bucknell University in Louisville, PA. He received his M.A. at the University of Minnesota-Duluth and completed his Ph.D at Cornell University in 1979. He is an Inorganic coordinator and Organometallic Chemist, with interest in Transition Metal Mediated Organic Synthesis and Caged Metal Ions.

New Faculty at SJU

FILE

Life as a Senior

I studied my P-Chem until a quarter to eight. Then looked at my watch and realized I was late. I packed up my books in a mad hurried rush then went off in search for that loaded Midway bus.

I had to make the non-gunners meeting at nine. To study the effects of Beer's Law vs. time. The president poured another pitcher with glee, as the treasurer said "The next one is on me."

The study was judged as a great big success, as even the secretary drank to excess. The evening was over, we all went to bed, worried about the dreaded morning ahead.

I remember for once I had organic at eight, not really to worried cause "Heck, I'm always late."

When the alarm went off at two minutes to eight, my naugan remembered last nights Midway date. I put on my clothes to run what seemed a mile, then recalled, "Hey, I'm a SENIOR" and went back to bed, for awhile.

Mark Wollmar & Friends
SUMMER RESEARCH

Chris Bannochie- Worked on the study of Ion-Exchange Membranes (Resins) under the direction of Dr. John Sandberg at St. John's University.

Colleen Byron- Researched the Separation of Coal Fly Ash by size using the technique of Field Flow Fractionation at the University of Utah, Salt lake City, under the instruction of J. Calvin Gidding.

Kari Erpelding- Researched the Electrochemical Behavior of Mediator Dyes using Cyclic Voltammetric Methods under the direction of Marian Stankovich, at the University of Minnesota.

Marietta Haeg and Marie Larsen- Studied different Grignard Reagents under the direction of Dr. Richard Jochman at St. John's University.

Mike Heroux and Glen Neuberger- Worked on interfacing the pH meter, the analytical balance and the U.V. visible spectrophotometer, under the direction of Dr. Robert Fulton and Dr. Michael Ross at St. John's University.

Karl Schroeder- Studied the EDTA- Spectrophotometric Determination and Gas Chromatograph experiments for CH 335, under the direction of Dr. Robert Fulton and Dr. Michael Ross at St. John's University.

******** Stimulating Seminars ********

The first of three seminars this fall was "Field-Flow Fractionation for Chemical Separations", presented by J. Calvin Gidding, professor of Chemistry at University of Utah. He studied the separation of colloidal particles using his own chromatographic technique.

Dr. Marion Bradford, A.E. Staley Company, presented an overview of the Staley Company and answered informal questions on life as an industrial chemist.

The third seminar was given by Dr. Michael Saymour, Hope College, Michigan, a SJU graduate of 1972. His focus was on the chemistry, occurrence, and environmental impact of Acid Rain.

Many CONGRATULATIONS are in order for Sister Nivard Neft, who has just received tenure.
***Dr. Mark Hughes is on sabbatical leave this year to the University of Connecticut. His special interest is polymers.

***Lisa ('82) and Peter ('81) Germscheid had a baby boy, Matthew Peter, who was born in June, 1982.

***Theresa Zieske ('82) and John Polta ('81) were married in June, 1982, in Stillwater, MN. They both are now attending graduate school at Iowa State University.

***Ann Kessler-Brutlag, MD and Jean Lown, J.M. Research Chemist, participated in Career Day, November 10, at the College of Saint Benedict.

**Points of Interest**

Dr. Frank Rioux ran this year in the Twin City Marathon. The run took place on October 3, 1982. Out of 4200 starters, Dr. Rioux finished 64th overall and 16th in his age group, with a time of 2:35:46.

Dr. Rioux will also have an article published with Dr. Daniel Steck of the Physics department, in "American Journal of Physics." It is called, "A Novel Derivation of E=mc^2."

This J-Term Dr. Rioux will be spending his time with 24 students from various colleges, touring Europe for his class, "Europe and the Rise of Modern Science." They will be searching for the roots of modern science in England, Germany, Italy, and France.

Dr. Rioux is quick to emphasize that most research is done in English and German pubs.

The ever famous Chem Club fall picnic was held again this year at the Watag picnic grounds. There were several entries in the Nernst. The race was won by the speedy team of Marie Larsen and Glen Neuberger. Volleyball was also a big attraction. In the first round, the seniors beat the underclassmen 2 out of 3. The second round pitted the faculty against the seniors, need a score be released?

**Awards**

This year the Sister Rogutia Sohler Award was established. It is awarded to outstanding Chemistry majors from the College of Saint Benedict. The co-recipients, and first to receive the award, were Marietta Haeg and Kari Erpelding.

The Glen E. Arth Chemistry Award was established in 1976 by friends and co-workers of the late Glen E. Arth, SJU '34. The award is intended to honor the outstanding senior chemistry major at SJU. Glen Neuberger was the recipient of this award.

Mike Kenney and Theresa Zieske received the American Institute of Chemists Award for outstanding chemistry majors progressing to graduate school.
Spectra Problem

Our own Dr. Richard Jochman has a problem, literally. He wishes to put the following spectra problem on his next test, but he lost the answer. Please help Dr. Jochman out!

A compound was reported to be an important component of the pheromone of the bark beetle * Ips typographus*. It has a molecular weight of 86 and its percent composition is 69.77% carbon, 11.61% hydrogen. Its IR and NMR spectra follow, what is its structure?

[Graphs showing IR and NMR spectra]

Upcoming Events

1.) Chem Power Volleyball has once again conquered the Bic Club team. In trying to regain their self-respect and dignity, they have challenged the Chem Club to a rematch. Details at a later date.

2.) Bake Sale—Early December

3.) The Chem Club is sponsoring a Resume Workshop open to all on: Nov. 23, 7:30, SC 213
   for seniors only: Dec. 2, 7:30, SC 213.

4.) The Chem Christmas Party is tentatively set for the Butcher Shop, look for specific date in December.