a Chair and a Co-Chair, each with specific duties developed by the faculty.

The Department of Science has five full time biologists, five full time chemists, a full time physicist, and a full time laboratory coordinator. Two regular part-time faculty also work in the Department, along with secretaries and student workers.

Students in the Department can get a BS degree in Biology or Chemistry and a BA degree in Natural Science. Biology majors can take a program for certification as secondary school biology teachers. At present the Department serves about 68 Biology majors along with providing support courses for the nursing major. Graduates have been successful in gaining admission to medical, dental, veterinary, and osteopathic schools, along with graduate schools. In the past few years a number of students have spent a semester in research at Argonne National Laboratory. Within the past eight years the College has developed a cadaver facility, an animal facility and a small research laboratory for biology, and a computer facility for the entire college. The Department anticipates a new greenhouse in the near future.

The Department is very pleased to welcome AMCBT to its campus in September 1984.

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"1984: Brave New World?"
St. Xavier College
Chicago, Illinois

Tentative AMCBT Schedule

9/27 Thursday PM - Executive Board

9/28 Friday AM - Field Trips (maximum 20 each)

I Shedd Aquarium
- behind the scenes (Linda Wilson?)
- option for people to go over to the Field Museum of Natural History on the same field trip (Ken Mason?)

II Argonne National Labs
- particularly biology (Radiation Biology, Oncology, and Human Protein Index as possible examples)

III Morton Arboretum
- in general and specifically effects of highway pollutants on plants
9/28 Friday PM

1 PM Business Meeting

1:30 PM Keynote Address
- 2:30 PM Dr. Joan Straumanis
   Academic Dean
   (& Professor of Philosophy)
   Kenyon College
   Gambier, Ohio
   "Re-Visioning Science Education"

Joan will use the feminist lens to "re-vision" our notion of science education. She will describe ways of moving from androcentric science education to forms which need not necessarily be explicitly feminist or genderless, but genderful and able to embrace diverse interests of race, class, ethnicity and gender.

2:30-3:00 PM Commentary (Invited questions & audience participation.)

3:00-3:45 PM Informal Discussion/Coffee Break

I Faith Wilson
   University of Missouri at Kansas City
   "Teaching Experimental Design and Inference to Undergraduate Biologists"

II G. Tanner Girard
   Principia College
   Elsah, Illinois
   "An Interim Natural History Course in Baja"

III Focus on Teacher Training

IV Films (Hopefully these will be from a fairly high quality collection of college biology films from Open University in England)

4:30-4:45 PM Changeover/Coffee

4:45-5:30 PM Four Simultaneous Sessions

V Dick Wilson
   Rockhurst College
   Kansas City, Missouri
   "Teaching Research Proposal Preparation and Experimental Designs"

VI Robert L. Wallace
   Ripon College
Ripon, Wisconsin
"Experience with a Computer Information
Retrieval System: DATATRIEVE"

VII Non-majors teaching session

VIII Films (continued)

5:15-7:00 PM Cocktail Hour (?Software Exchange Session)

7:00 PM Dinner

8:30-10:00 PM Dinner Speaker
(Tentative)
Dr. Daphne Fautin
California Academy of Sciences
San Francisco, California
"Coevolution of Sea Anemones and Anemone Fish
in Tropical Reefs"

9/29 Saturday AM

7:00-9:00 AM Special Interest Groups (Resolutions
Committee:
Producing Guidelines on Contact Hours/Labs.)
(Harold Wilkinson involved - Needed
Instrumentation; Lab Safety; Retention and
Bob Satterfield

9:00-9:40 AM Four Simultaneous Sessions

IX Panel: Research in Liberal Arts Colleges
I

a. Richard Kowles
St. Mary's College
Winona, Minnesota
"Report on their undergraduate research
symposia"

b. William Doemel
Wabash College
Crawfordsville, Indiana
"Microbiological Research at a Small
Liberal Arts College"

X G. Tanner Girard
Principia College
Elsah, Illinois
"Tropical Biology in Central America for
Undergraduates"

XI Labs that Work I
(tentative: he has not made a final
commitment)
Hans Pearson
Silver Lake College
Manitowoc, Wisconsin
"Self-made sampling equipment for
lab/field investigations in
aquatic/terrestrial ecology"

XII Films (A documentary on The New Alchemy
Institute in Falmouth (Cape Cod),
Massachusetts. John Todd, a marine
biologist, founded an alternative style
farm (fish culture, organic farming, wind
power, and green house design) which has
received NSF support. Members who heard
Don Scoby's presidential address will want
to see this one.

9:40-9:50 AM Changeover/Coffee

9:50-10:30 AM Four Simultaneous Sessions

XIII Panel: Research in Liberal Arts Colleges II

c. Ken Yasukawa
   Beloit College
   Beloit, Wisconsin
   "Students' Preparation of Publishable
   Manuscripts and Students as Research
   Collaborators"

d. Commentary and Discussion

XIV Labs that Work II
   A. B. (Rob) Ordman
   Beloit College
   Beloit, Wisconsin
   "Affinity Chromatography in the
Biochemistry Laboratory"

XV (Volunteered/but has not replied to letter
of 5 March '84)
   Evan Hazard
   Bemidji State University
   Bemidji, Minnesota
   "Using Writing to Enhance Learning in
   Biology Courses"

XVI Film: Repeat of The New Alchemy film

10:30-11:00 AM Coffee Break/Discussion/Balloting

11:00AM-Noon Brave New World Revisited: Discipline
Sections
a. Anatomy and Physiology - Ray Reed
b. Genetics and Evolution - John Jungck
c. Field Ecology - Dick Wilson
d. Microbiology - Bob Satterfield
e. Botany - Bill Andresen (?)
f. Cell Biology - Ann M. Larson

Noon
Eat at local Chicago restaurants except executive board - business luncheon

SPECIAL: Sunday AM (Very early)

Sr. Marion Johnson will lead a field trip to the Indiana Sand Dunes on Lake Michigan. She will describe the successional studies which are occurring there. (Run only if there is advance interest.)

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DESSERT ECOLOGY IN BAJA

by

John Elmore and G. Tanner Girard

Biology Department, Principia College

The Baja peninsula is an excellent field site for biological studies. Biological adaptation is easily witnessed in the desert environment where water scarcity is the primary limitation. The Baja flora is diverse for a desert, and well-studied (Wiggins 1980). Natural history guides and species checklists are available (Bostic 1975). Despite a history of development attempts dating back to a scouting expedition by a Cortez lieutenant in 1533, large expanses of wilderness remain. Lengthy coastlines on the Pacific and Sea of Cortez offer diverse habitats for coastal biology studies as well. Students from Principia College, Elsah, Illinois have participated in six biological field study programs in Baja since 1964. From this experience, we know that students enjoy the feeling of discovery that comes from well-planned biology field courses in exotic habitats, such as Baja.

In summer 1964, led by Professor Emeritus John Wanamaker and Mr. Bill Mueller, a small group of Principia College biology students traveled through the rugged country of Baja, driving on dirt roads and river washouts. Five more trips have been taken to Baja on a biennial basis since 1974, including the most recent (November-December 1982), led by Dr. G. Tanner Girard and accompanied by Dr. John Wanamaker. Completion of the Transpeninsula Highway in 1971 has allowed the last five expeditions to travel the length of the peninsula and return to