The UW-EC Office of Institutional Studies annually compiles lists of faculty projects, programs, research, and publications. The first three editions *, 1968, 1969, and 1970, are separately bound and on file in the Office of Institutional Studies and in many departments and offices. Subsequent annual reports are filed on the following pages. For each year the pages of Current Projects, Programs and Research are numbered 585YY.PP, in which YY is the last two digits of the year covered and PP is a page number between 00 and 49. The pages of Faculty Publications are numbered 585YY.QQ in which each QQ is a page number between 50 and 99.

Each report is an attempt by the Office of Institutional Studies to communicate the extent to which UW-EC faculty participate in research and related activities. Information for the compilation is provided by faculty members through the departmental liaisons to the Office of Institutional Studies. This cooperation is appreciated; continuing success of the project is dependent upon it. Suggestions for improvement and notification of errors are solicited.

* These editions do not contain listings of faculty publications. See the appropriate volume of WSU's Publication Abstracts. The 1970 edition is the last of that series.
# Table of Contents

## CURRENT PROJECTS, PROGRAMS AND RESEARCH

<table>
<thead>
<tr>
<th>Department</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accountancy</td>
<td>58573.01</td>
</tr>
<tr>
<td>Allied Health</td>
<td>58573.01</td>
</tr>
<tr>
<td>Art</td>
<td>58573.01</td>
</tr>
<tr>
<td>Biology</td>
<td>58573.01</td>
</tr>
<tr>
<td>Business Administration</td>
<td>58573.02</td>
</tr>
<tr>
<td>Chemistry</td>
<td>58573.03</td>
</tr>
<tr>
<td>Computer Science</td>
<td>58573.03</td>
</tr>
<tr>
<td>Economics</td>
<td>58573.04</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>58573.04</td>
</tr>
<tr>
<td>English</td>
<td>58573.04</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>58573.05</td>
</tr>
<tr>
<td>Geography</td>
<td>58573.05</td>
</tr>
<tr>
<td>Geology</td>
<td>58573.05</td>
</tr>
<tr>
<td>History</td>
<td>58573.06</td>
</tr>
<tr>
<td>Mathematics</td>
<td>58573.06</td>
</tr>
<tr>
<td>Music</td>
<td>58573.06</td>
</tr>
<tr>
<td>Office Administration and Business Education</td>
<td>58573.08</td>
</tr>
<tr>
<td>Philosophy</td>
<td>58573.09</td>
</tr>
<tr>
<td>Physical Education</td>
<td>58573.09</td>
</tr>
<tr>
<td>Physics</td>
<td>58573.09</td>
</tr>
<tr>
<td>Political Science</td>
<td>58573.09</td>
</tr>
<tr>
<td>Psychology</td>
<td>58573.09</td>
</tr>
<tr>
<td>Sociology</td>
<td>58573.09</td>
</tr>
<tr>
<td>Special Education</td>
<td>58573.10</td>
</tr>
<tr>
<td>Speech</td>
<td>58573.10</td>
</tr>
<tr>
<td>University Library</td>
<td>58573.11</td>
</tr>
<tr>
<td>Non-Departmental Faculty</td>
<td>58573.11</td>
</tr>
</tbody>
</table>

## FACULTY PUBLICATIONS

<table>
<thead>
<tr>
<th>Department</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allied Health</td>
<td>58573.51</td>
</tr>
<tr>
<td>Art</td>
<td>58573.51</td>
</tr>
<tr>
<td>Biology</td>
<td>58573.51</td>
</tr>
<tr>
<td>Chemistry</td>
<td>58573.52</td>
</tr>
<tr>
<td>Economics</td>
<td>58573.52</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>58573.52</td>
</tr>
<tr>
<td>English</td>
<td>58573.52</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>58573.53</td>
</tr>
<tr>
<td>Geography</td>
<td>58573.53</td>
</tr>
<tr>
<td>Journalism</td>
<td>58573.53</td>
</tr>
<tr>
<td>Library Science</td>
<td>58573.53</td>
</tr>
<tr>
<td>Mathematics</td>
<td>58573.53</td>
</tr>
<tr>
<td>Medical-Surgical Nursing</td>
<td>58573.53</td>
</tr>
<tr>
<td>Music</td>
<td>58573.53</td>
</tr>
<tr>
<td>Office Administration and Business Education</td>
<td>58573.53</td>
</tr>
<tr>
<td>Psychology</td>
<td>58573.54</td>
</tr>
<tr>
<td>Sociology</td>
<td>58573.54</td>
</tr>
<tr>
<td>Speech</td>
<td>58573.54</td>
</tr>
<tr>
<td>Non-Departmental Faculty</td>
<td>58573.55</td>
</tr>
</tbody>
</table>
4. Dissertation Research

Etnier, Dr. Donald
The Switch from LIFO: Disclosure Methods and Their Effect upon Investors' Decisions.
FUNDING: None, other than personal.
STATUS: Complete.

In recent years a number of major firms have switched from the LIFO (Last-in, First-out) method of valuing inventories to other methods. This switch often has a major effect on the firm's financial statements. The dissertation examines and evaluates various methods which have been used of reporting this change in financial statements.

Selin, J. Roger
Accounting for Self-Sustaining Auxiliary Enterprises for Colleges and Universities.
FUNDING: None, other than personal.
STATUS: In Progress.

6. Program with Federal or Foundation Support

Ozzello, Dr. Lawrence
In-Service Managerial Development Program for Governmental Personnel in Seven Counties.
FUNDING: Federal.
STATUS: In Progress.

2. Artistic Production, Showing, or Recital

Benson, A. William
Intaglio Printmaking: "Cabaret" and "High-Rise Labyrinth."
FUNDING: None, other than personal.
STATUS: Complete.

The prints were made by making impressions on paper from incised lines on metal by means of inking a plate, running through a press, and matting the final impressions. Many variations in technical control include using a variety of textural grounds, line intensities, and shape nuances. Color viscosity printing is also an involved technical process, with many possible variations. Work was shown in annual faculty exhibit, Foster Gallery, Fall, 1973, for three weeks.

Drawing with Variety of Media.
FUNDING: None, other than personal.
STATUS: In Progress.

Fish, Edward
A Twenty Foot Low Relief Sculptural Mural Consisting of Seven Panels 32" Wide by 50" Long Depicting the Seven Arts.
FUNDING: University Research Grant.
STATUS: In Progress.

Hagale, George
M. A. S. S. 73, Michael Wyman Gallery, Chicago--Invitational National Sculpture Show.
FUNDING: None, other than personal.
STATUS: Complete.

Joslin, Richard
Production of Ceramic Art Objects.
FUNDING: None, other than personal.
STATUS: In Progress.

Katsoris, Stephen
Continuing Developments in Painting-Acryllcs and Spray Dye.
FUNDING: None, other than personal.
STATUS: In Progress.

Klein, Dr. Carol
SUPERVISED STUDENT: Sharon Ehrmeyer
The Development of Slide-Tape Presentations for Teaching the Theory, Operation, and Maintenance of the Technicon Single-Channel Autoanalyzer.
FUNDING: Departmental and Federal.
STATUS: Complete.

The presentation teaches the operation and maintenance of the Technicon single-channel autoanalyzer.

McCoy, Dr. Paul
FUNDING: None, other than personal.
STATUS: Complete.

Each painting paired with an original poem, both of which were responses to some deliberately-evoked olfactory stimulus-image. Pairings made to study "mingling-between" units and relationships of non-verbal and verbal response modes.

Raid, Titl
FUNDING: None, other than personal.
STATUS: Complete.

The first two exhibitions were both competitive in nature. The Stevens Point Show was state-wide; the Mt. Clemens Show was national. Competitive shows are juried and provide the artist an outlet for the display of his work. The two man show (with Anders Shafer—UW-Eau Claire) consisted of six paintings which were displayed at Foster Gallery on this campus last February, 1973. These paintings are a new distinction in my work in which my interest is in visual information, where the position from which the work is viewed is initial to the type of information seen. Distant, close, from the side, each position providing different information which collectively gives insight into what the work is about. The work is non-objective.

Raid, Titl
Drawing: Concentration/Control.
FUNDING: None, other than personal.
STATUS: In Progress.

This studio involvement has to do with learning about my abilities to concentrate and to control what I’m doing. Also, it is an intense involvement to find out as much as possible about what I am doing. In other words, increased consciousness into my mental processes and its relationship to art. Intuition is an important factor here also, and these drawings (as much of my present work) is to see what happens and what is involved in an idea which is based on notions whose sources I have little conscious awareness for, but which with attentive work and thinking will reveal its content and significance.

Shafer, Anders
Three-Man Exhibition, Michael Wyman Gallery, Chicago, Illinois.
FUNDING: Other.
STATUS: Complete.

6. Program with Federal or Foundation Support

Grimm, Gretchen COLLABORATOR: Media Development Center Audio Visual Aids for Secondary Schools of Northwestern Wisconsin.
FUNDING: Other.
STATUS: In Progress.

Tapes and cassettes on studio practices.

FUNDING: Federal.
STATUS: In Progress.


Hagale, George COLLABORATORS: A. V. and Stout Art Department
FUNDING: Foundation.
STATUS: In Progress.

DEPARTMENT OF BIOLOGY
Liaison: Dr. B. Snudden

1. Research and Investigation

Balding, Dr. Terry COLLABORATOR: Dr. Oliver Owen Ecology of the Blue Jay (Cyanocitta cristata).
FUNDING: None, other than personal.
STATUS: In Progress.

Cvancara, Dr. Victor
Effect of Elevated Water Temperature on Larval Teleosts.
FUNDING: Federal.
STATUS: In Progress.

Carbamyl Phosphatase Synthetase in Primitive Bony Fish.
FUNDING: University Research Grant.
STATUS: Complete.

Liver carbamyl phosphatase synthetase was assayed in representative freshwater bony fish: Scaphirhynchus platypomus (shovel-nose sturgeon), Polyodon spathula (paddlefish), Lepisosteus platostomus (shortnose gar), and Amia calva (bowfin).
Liver carbamyl phosphatase synthetase was present in all species examined and showed a range of 0.008 to 0.002 (P. spathula) to 0.029 to 0.008 (L. platostomus).

Dietary induction of Teleost Liver Arginase.
FUNDING: University Research Grant.
STATUS: In Progress.

Fay, Dr. Marcus
The Flora and Plant Communities of the Pigeon Lake Region, Chippewa National Forest, Bayfield County, Wisconsin.
FUNDING: None, other than personal.
STATUS: In Progress.

SUPERVISOR: Robert A. Matson
The Flora and Plant Communities of an Area in Rusk County Designated for a Copper Mining Operation.
FUNDING: None, other than personal.
STATUS: In Progress.
Lim, Dr. Jong KI
High Resolution Genetic Analysis of a Segment of Chromosome.
FUNDING: None, other than personal.
STATUS: In Progress.

D'Connell, Kevin COLLABORATOR: Jack Gorski
Effects of Estrogens on the Enzymatic Activity of the Uterine RNA Polymerase.
FUNDING: Federal and Foundation.
STATUS: In Progress.

Saigo, Mrs. Barbara COLLABORATOR: Dr. Roy Saigo
Anatomical Reactions of Various Greenhouse Plants to Feeding by Mealybugs and Scale Insects.
FUNDING: None, other than personal.
STATUS: In Progress.

Saigo, Dr. Roy COLLABORATOR: Barbara Saigo, Dr. Fred Rickson
An Ultrastructural Investigation of Cortical Giant Cells in Grand Flr Induced by Balsam Wooly Aphid Feeding.
FUNDING: University Research Grant.
STATUS: In Progress.

COLLABORATOR: Barbara Saigo
Seasonal Chemical and Anatomical Changes in the Bark of Betula sp. in Relation to Cold-Hardiness.
FUNDING: University Research Grant.
STATUS: In Progress.

COLLABORATOR: Barbara Saigo
Giant Cell Formation in Grand Flr Seedlings as Induced by the Balsam Wooly Aphid.
FUNDING: Federal.
STATUS: In Progress.

Anatomical Changes in the Bark of Silver Flr and Sue-Alpine Flr as Induced by the Balsam Wooly Aphid.
FUNDING: University Research Grant.
STATUS: In Progress.

Snudden, Dr. Birdell
Microbial Ecology of Natural Waters in Northwestern Wisconsin.
FUNDING: None, other than personal.
STATUS: In Progress.

Major Student Research
Balding, Dr. Terry COLLABORATOR: Dr. Roy Saigo
SUPERVISED STUDENT: Mary Frick
The Effect of Temperature and Solar Radiation Upon the Circadian Rhythm of the Chipmunk Tamias striatus.
FUNDING: None, other than personal.
STATUS: In Progress.

Fay, Dr. Marcus
SUPERVISED STUDENT: Donald Koski
Plant Communities in Wood County.
FUNDING: None, other than personal.
STATUS: In Progress.

SUPERVISED STUDENT: Robert Tomash
The Flora and Plant Communities of the Eau Claire River Area.
FUNDING: None, other than personal.
STATUS: In Progress.

SUPERVISED STUDENT: Richard Sommer
The Flora of Selected Habitats of Northeastern Portage County.
FUNDING: None, other than personal.
STATUS: In Progress.

SUPERVISED STUDENT: Verdon Lecll
Vascular Flora and Plant Communities of the Winter Lakes Region.
FUNDING: None, other than personal.
STATUS: In Progress.

Jeitzen, Dr. Thomas SUPERVISED STUDENT: Teresa Lam
The Effect of Temperature-increase on the Survival of Fungal Zoospores.
FUNDING: Departmental.
STATUS: Complete.

Zoospores of species of fungi that parasitize fresh-water fish and their eggs were examined with respect to their survival during various rates of temperature increase in normal and controlled aquatic situations. In most cases the rate of temperature increase rather than the actual increase was indicated as the cause of the populations decline or death.

Lim, Dr. Jong KI SUPERVISED STUDENT: Chun-Ping Liu
Complementation Analysis of Methyl methanesulfonate-induced Recessive Lethal Mutations in Drosophila.
FUNDING: University Research Grant.
STATUS: Complete.

Complementation analysis of 113 methyl methanesulfonate (MMS)-induced recessive lethals in the 3A1 to 3C2 region of the X chromosome of Drosophila indicate that practically all of the recessive lethals detected among the sperm treated by feeding 5 mm of this compound for 2 hours are point mutations. This conclusion is based on the observation that only one of the 113 recessive lethals investigated was associated with loss of function in two adjacent loci (zw-2 and zw-3).

SUPERVISED STUDENT: Sharon Burdick
Effect of Heterochromatin on the Mutagenic Action of Ethyl methanesulfonate in Drosophila.
FUNDING: Departmental.
STATUS: Complete.

Naughten, Dr. John SUPERVISED STUDENT: Brian Vickle
An Investigation of Possible Drug Induced Behavioral Teratogenesis in the Brown Leghorn Chicken.
FUNDING: Departmental.
STATUS: Complete.

Chicken embryos were exposed to either Chlorpromazine, a commonly used tranquilizing drug, or D-Amphetamine Sulfate, a drug which stimulates the central nervous system. The animals were given behavioral tests after hatching to determine whether permanent behavioral alterations had been induced by these drugs during the development of the nervous system.

Saigo, Dr. Roy SUPERVISED STUDENT: John D. Frazee
Innovative Photomicrographical Methods in Biology.
FUNDING: Departmental.
STATUS: In Progress.
COLLABORATOR: Dr. Terry Balding
SUPERVISIED STUDENT: Mary Frick
Use of Biotelemetry in Following the Movements of Chipmunks.

FUNDING: Departmental.
STATUS: In progress.

COLLABORATOR: Dr. William Barnes
SUPERVISIED STUDENT: Paul Sota
Study: To Study the Effect of Interstate Highway 49 on the Growth of White Pine.

FUNDING: Departmental.
STATUS: In progress.

Woodruff, Dr. John SUPERVISIED STUDENT: Mary L. Notte

FUNDING: Departmental.
STATUS: Complete.

Throughout the 18-day experimental period, the levels of labeled sugars, amino acids, and organic acids in the leaves and stems of the cold-treated plants were generally higher than in the untreated plants. Each of the labeled compounds analyzed during the 18 days of cold temperature subjection showed fluctuations in both treated and untreated plants.

Indications were that during the last week after subjection to cold temperatures, the plants were affected by an initial shock to the respiratory and photosynthetic pathways. This initial shock to photosynthesis and respiration was followed by a recovery period. The period of recovery could have been due to resumption of the normal respiratory pathway or the substitution of an alternate pathway of respiration, for example, the pentose phosphate respiratory pathway.

Winter-hardy forms have a high adaptive ability and this ability appears to be associated with alterations of the respiratory and photosynthetic pathways.

SUPERVISIED STUDENT: Kwang Ho Teh
Quantitative Studies of Nucleic Acids, Proteins and Ribonuclease Activity During the Senescence of Cotyledons.

FUNDING: Departmental.
STATUS: In progress.

Dissertation Research

Ho, Dr. Yui Tim COLLABORATOR: Dr. Ralph E. Comstock
Genetic Improvement by Combining Superior Alleles From Different Populations in a Naturally Cross-fertilizing Species.

FUNDING: University of Minnesota Research Grant.
STATUS: Complete.

Mathematical analysis and computer simulation were used in the investigation of how to proceed in an optimum fashion to bring together good alleles from more than one source population into a single foundation population and eventually into high frequency in one improved population. Given independent assortment and artificial selection in foundation stock formed by crossing previously distinct populations, the selection limit is a function of (a) the effective population size; (b) the difference in relative fitness between two homozygotes; (c) the proportions of loci fixed favorably, fixed unfavorably and that are still segregating in the source populations.

DEPARTMENT OF BUSINESS ADMINISTRATION
Liaison: F. Waedt

1. Research and Investigation

Decker, Dr. Ronald
Retail Store Evaluation for the Neillsville Chamber of Commerce.

FUNDING: Other.
STATUS: Complete.

Project consisted of an analysis of the shopping area for Neillsville, Wisconsin, and an evaluation of the shopping area. Subjects covered included pricing, store design, and merchandise display.

Cost-of-Living Index for Eau Claire and nearby cities.

FUNDING: Federal.
STATUS: In progress.

Lowry, Dr. John
Business Case dealing with problems of small North-west Wisconsin firm.

FUNDING: Other.
STATUS: Complete.

Intercollegiate Case Clearing House case writing for Harvard University.

Rosenberg, Dr. Marie COLLABORATOR: Dr. Leonard Bergstrom

FUNDING: None, other than personal.
STATUS: Complete.

Women and Society is the most complete compilation of citations covering the topic of women and society. This book includes over 3,500 citations from the most comprehensive and outstanding works in this field and increasingly timely field of study. An extremely useful aspect of Women and Society is its extensive cross-referencing index system.

Waedt, Fred

FUNDING: None, other than personal.
STATUS: In progress.

3. Major Student Research

Tayley, Dr. William SUPERVISIED STUDENT: Martha Wilson
Relationship Between Herzberg's M-H Dichotomy and M's Among College Students.

FUNDING: None, other than personal.
STATUS: In progress.

SUPERVISIED STUDENT: Martha Wilson
M's as a Moderator of Herzberg's Concept of Motivation Among Managers.

FUNDING: None, other than personal.
STATUS: In progress.
7. Innovative Pedagogical Project

Becker, Dr. Ronald  
COLLABORATOR: Dr. Donald Elliott  
MKTUIM A Computer Based Business Simulation for Classroom Use.  
FUNDING: Departmental.  
STATUS: In Progress.

DEPARTMENT OF CHEMISTRY  
Liaison: F. Krause

1. Research and Investigation

Campbell, Dr. Donald  
SUPERVISED STUDENT: Robert  
Methods of Analysis for Metals in Airborne Particulate Matter.  
FUNDING: Wisconsin Department of Natural Resources.  
STATUS: In progress.

SUPERVISED STUDENT: Russell Pickard  
Ammonia Complexes of Lanthanide Ions.  
FUNDING: Departmental.  
STATUS: In progress.

Chenier, Dr. Philip  
SUPERVISED STUDENT: James McClure  
N-Substituted Nortricyclenes: Synthesis and Antiviral Activity Against Influenza.  
FUNDING: Departmental and Univ. Research Grant.  
STATUS: In progress.

This proposal includes: the synthesis and study of a new series of compounds with two objectives in mind. First, the structure of certain members of this series is very similar to a compound presently being made by Du Pont, which has been used to combat recent outbreaks of certain types of influenza, known commonly as Asian flu. The drug being used is effective only against certain specific types of viruses, and its lack of generality is the major reason it has not been used more extensively. Appropriate members of the new series would be tested against many types of influenza viruses in the hope that one would supplement or replace the present drug. A second objective of the work is of more theoretical interest. Controversies are apparent in the recent chemical literature concerning the relative importance of inductive and ring strain effects in bridgehead carbonium ion solvolyzes in the new system. The proposed research would include one additional study which would differentiate finally between these two effects, and define exactly which one is more important.

Denio, Dr. Allen  
SUPERVISED STUDENT: James Zank  
The Determination of Molecular Weights of Polymers by Vapor Pressure Osmometry.  
FUNDING: Departmental.  
STATUS: Complete.

This department recently acquired a Vapor Pressure Osmometer, an instrument used to determine molecular weights in the range from 100 to 25,000. The project involved the calibration of the instrument and subsequent use with paraffin and polystyrene samples using benzene solutions at 40°C.

SUPERVISED STUDENTS: Atis Vyangri, Thomas Schlais  
A High Vacuum System for Polymer Stress Relaxation Studies.

FUNDING: Departmental and Univ. Research Grant.  
STATUS: In progress.

An investigation is to be made of stress relaxation in polymers as a function of environment. Polymer samples must be contained in a high vacuum system which can also be used to introduce known amounts of reactive species that attack polymers. The preliminary work involves the construction of a glass high vacuum system which is nearing completion.

SUPERVISED STUDENT: Thomas Schlaeis  
An Infrared ATR Study of Polymer Films.  
FUNDING: Departmental.  
STATUS: In progress.

Infrared spectroscopy is a useful technique for studying the structure of polymer films. If the films are thin and transparent, they can be mounted directly in the i.r. beam. If they are too thick or opaque, a special technique known as attenuated total reflection is used. This department recently obtained an ATR attachment which has been used with the Beckman IR-B Spectrophotometer. It is being used to further the study of the structure of polymers.

Duerst, Dr. Richard W.  
SUPERVISED STUDENT: Jane Kasten  
Preparation of metal-metal pair systems with no inversion symmetry for use in an ESR study of metal-metal pair interactions.  
FUNDING: None, other than personal.  
STATUS: In progress.

SUPERVISED STUDENT: Karen Hansen  
Expansions of Instrumental Analysis Experiments; kinetics of a ketone-h2 acid-catalyzed reaction.  
FUNDING: None, other than personal.  
STATUS: In progress.

SUPERVISED STUDENT: Thomas Schlaeis  
Construction of a vacuum line, design and construction of the solid state electronics required for the efficient operation of the Toeppler pump.  
FUNDING: None, other than personal.  
STATUS: In progress.

Klink, Dr. Joel  
SUPERVISED STUDENT: Jeffery Slaytner  
Studies on Diazopropene.  
FUNDING: Departmental.  
STATUS: In progress.

Kwark, Dr. Charles  
SUPERVISED STUDENT: Jeanne  
Mitocarot  
Neutal Sugar Fraction of Bone Collagen Carbohydrate.  
FUNDING: Departmental and Univ. Research Grant.  
STATUS: In progress.

The neutral sugar attachment to soluble bone collagen extracts may relate to the interaction of bone collagen fibers with the inorganic crystalline phase of the tissue.

Kwark, Dr. Dean  
SUPERVISED STUDENT: Marcia Johnson  
Study of Crystal Growth in Various Media.  
FUNDING: Departmental.  
STATUS: In progress.
Ochrzykowycz, Dr. Leo  
**SUPERVISED STUDENTS:**  
- M.S. Knier  
- C.A. Janek  

**Macrocyclic Ligand-Induced Metal Ion Bio-Transport.**  

**FUNDING:**  
Departmental and Federal (NIH).  
**STATUS:** In Progress.

---  

**COLLABORATOR:** Dr. David B. Forbes  
**SUPERVISED STUDENTS:**  
- R. Brown, C. Mack, M. Knier  
- G. Janek, K. Schutz, K. Leung, M. Taschner  

**Macrocyclic Ligand Kinetics: Polythioether Complexes.**  

**FUNDING:**  
Federal (NIH).  
**STATUS:** In Progress.

---  

**COLLABORATOR:** Dr. Richard DeSimone  
**CT3 (Carbon)**  
**SUPERVISED STUDENT:**  
- Mark Norman  

**Conformational Studies of Macrocyclic Polythioethers.**  

**FUNDING:**  
Departmental and Petroleum Research Fund.  
**STATUS:** In Progress.

---  

**COLLABORATOR:** Dr. Birdeil H. Snudden  
**SUPERVISED STUDENT:**  
- Copper and Chromium Inhibition of Anaerobic Digestion in Municipal Sewage Treatment Feed.  

**FUNDING:**  
City of Eau Claire.  
**STATUS:** In Progress.

---  

Pflazewicz, Dr. John  
**SUPERVISED STUDENT:**  
- Mark Norman  

**Role of Copper II in the Enzyme Superoxide Dismutase.**  

**FUNDING:**  
Univ. Research Grant and Research Corp.  
**STATUS:** In Progress.

---  

St. Louis, Dr. Robert  
**SUPERVISED STUDENT:**  
- Infrared Spectra of Water Impurities.  

**FUNDING:** None, other than personal.  
**STATUS:** In Progress.

---  

**3. Major Student Research**

Campbell, Dr. Donald  
**SUPERVISED STUDENT:**  
- Vinh Nguyen  

**Heavy Metals in Lake Sediments.**  

**FUNDING:**  
Departmental.  
**STATUS:** In Progress.

---  

Duerst, Dr. Richard W.  
**SUPERVISED STUDENT:**  
- Robert Lipert  

**Development of Computer Programs for Fitting of Near-Infrared Data of Strong Acid Solutions and Other Experimental Data.**  

**FUNDING:** None, other than personal.  
**STATUS:** In Progress.

---  

**SUPERVISED STUDENT:**  
- Gene Christianson  

**Ionization of Strong Electrolytes.**  

**FUNDING:** None, other than personal.  
**STATUS:** In Progress.

---  

**4. Dissertation Research**

Duerst, Dr. Richard W.  
**SUPERVISED STUDENT:**  
- Mario Ospina  

**Reverse Phase Liquid-Liquid Chromatography.**  

**FUNDING:** None, other than personal.  
**STATUS:** Complete.

---  

**DEPARTMENT OF COMPUTER SCIENCE**  
**Liaison:** Dr. B. Pumplin

---  

**7. Innovative Pedagogical Project**

Elliott, Dr. Donald  
**SUPERVISED STUDENT:**  
- Dr. Ronald Decker  

**Marketing Simulation Game for Use in the Classroom.**  

**FUNDING:**  
Departmental.  
**STATUS:** In Progress.

---  

Larson, Dr. Leonard  
**IMPLEMENTATION OF THE PLANIT CAI SYSTEM ON THE BSSD0.**  
**FUNDING:**  
Departmental and Other.  
**STATUS:** In Progress.
1. Research and Investigation

Cordes, John Z.  
The impact of multinational enterprises on developing countries and alternative regulatory responses (national, regional, international).  
FUNDING: None, other than personal.  
STATUS: In Progress.

Johnson, Dr. Jerome  
COLLABORATORS: Dr. David Ramseth, Dr. Curtis Curtis  
An inter-institutional study of student attitude towards principles of economics.  
FUNDING: Other.  
STATUS: Complete.

Kolb, Dr. Fredric 
COLLABORATOR: Sally Jo Wright 
Critical Levels of Age Composition in Specifying Socio-Economic Parameters.  
FUNDING: None, other than personal.  
STATUS: In Progress.

Peters, Dr. Robert  
Economics of campus crime - personal and university property theft.  
FUNDING: None, other than personal.  
STATUS: In Progress.

Grievance Arbitration in the Public Sector.  
FUNDING: University Research Grant.  
STATUS: In Progress.

2. Aid to American Indian Students.  
FUNDING: None, other than personal.  
STATUS: In Progress.

Manpower Substitution in Education Systems.  
FUNDING: None, other than personal.  
STATUS: Complete.

Examination of the use of aides led to the conclusion that aide usage does not lead to an increase in educational output.

Wright, Dr. Sally Jo  
COLLABORATOR: Dr. Fredric Kolb 
Critical Levels of Age Composition in Specifying Socio-Economic Parameters.  
FUNDING: None, other than personal.  
STATUS: In Progress.

4. Dissertation Research

Egan, James  
The effects of the widening tuition gap between private and public higher education institutions on the academic quality of undergraduate students entering private and public colleges and universities.

FUNDING: Ford Foundation.  
STATUS: In Progress.

Thompson, Dr. Benjamin  
SUPERVISED STUDENT: Forence Tergerson Schroeder  
An Environmental Education Resource Activity Kit for Fifth and Sixth Grade Pupils.  
FUNDING: None, other than personal.  
STATUS: Complete.

The purpose of this study was to develop an environmental education resource activity kit for fifth and sixth grade pupils of the Eau Claire Public Schools. Three sub-purposes were: First, structure activities enabling children to acquire concepts of natural resources, the biophysical environment, and cause-effect relationships in the environment. Second, to do this by an integrated and interdisciplinary subject matter approach. Third, utilize an individualized approach permitting pupils to plan their learning, select instructional media, and work at an appropriate rate of progress.

6. Program with Federal or Foundation Support

Sorensen, Dr. Juanita  
COLLABORATORS: Dr. Max Pool, Dr. Lloyd Joyal  
The Unit Leader in the IGE School.  
FUNDING: Sears, through UW-HSU.  
STATUS: In Progress.

1. Research and Investigation

Alexander, Dr. Robert  
Shelley's Major Poetry from a Specific Point of View.  
FUNDING: None, other than personal.  
STATUS: In Progress.

Arata, Mrs. Esther  
COLLABORATORS: Theresa Rush, Carol Myers  
FUNDING: University Research Grant and Personal.  
STATUS: In Progress.

Curtis, Allen  
Individual Characteristic Patterns of Early Language Acquisition in Four Normal, White, Middle Class Children, Age 10-18 Months.  
FUNDING: None, other than personal.  
STATUS: In Progress.

Hilger, Dr. Michael  
A study of methods to determine what UW-Eau Claire can offer the adult population of Eau Claire in the area of the humanities.  
FUNDING: Departmental.  
STATUS: In Progress.
3. Major Student Research

Buchholz, Dr. John
SUPERVISED STUDENT: Gerane Lyngdal
The Earth Mother Figure in the Novels of William Faulkner.
FUNDING: None, other than personal.
STATUS: In Progress.

Rubrecht, Dr. August
SUPERVISED STUDENT: James Krotzman
Folktales Found in the St. Croix Valley.
FUNDING: None, other than personal.
STATUS: Complete.

This is a collection of eleven folktales from six narrators from the St. Croix Valley along the Minnesota-Wisconsin border. The tales are placed in the context of the valley's history and folk-tale tradition. They are classified, whenever possible, according to Antti Arne's The Types of the Folktales and Stith Thompson's Motif-Index of Folk Literature.

SUPERVISED STUDENT: Mary Ann Oliver
Prepositional Usage in North Louisiana as Index of Social Dialect Variation.
FUNDING: None, other than personal.
STATUS: Complete.

This is a comparative study of prepositional usage in the tape recorded speech of Type III (college educated) and Type I (grammar-school educated) English speakers from North Louisiana. It reveals important differences between the two social dialects in the makeup, function, and position of prepositional phrases.

St. Louis, Dr. Nadine
SUPERVISED STUDENT: Ellen Last
Heagle
Chaos and Pattern! The Vision of Virginia Woolf.
FUNDING: None, other than personal.
STATUS: In Progress.

SUPERVISED STUDENT: Sandra Lindow McDonald
The American Woman In Crisis: Three Selected Novels.
FUNDING: None, other than personal.
STATUS: In Progress.

Waters, Dr. D. Douglas
SUPERVISED STUDENT: Mrs. Theresa Purchase
The Ecstasies and Agonies of Othello.
FUNDING: None, other than personal.
STATUS: Complete.

This was a MA thesis interpreting Othello as a tragedy of a heroic noble person and lover.

6. Program with Federal or Foundation Support

Gouge, Mrs. Saxon
COLLABORATORS: Melaline Minkus, Dr. John Hunnicutt, Dr. Kenneth Spaulding
SUPERVISED STUDENT: Connie Best
Ojibwa Culture Program Module.
FUNDING: Federal.
STATUS: In Progress.

Pearson, Douglas A.
Media Workshop.
FUNDING: Federal.
STATUS: In Progress.
Rosen, Irwin
Creative Writing in Northwest Wisconsin.
FUNDING: Federal.
STATUS: Complete.
I had a Title I grant to teach creative writing to communities in Northwest Wisconsin.

DEPARTMENT OF FOREIGN LANGUAGES
Liaison: R. Brown

7. Innovative Pedagogical Project

Hoff, Dr. Roma
Reasons for Attrition in Beginning Foreign Language Classes.
FUNDING: None, other than personal.
STATUS: In Progress.

Rolland, Barbara
COLLABORATORS: Edith O'Connor, Martine Meyer
Le Francais, Langue et Culture.
FUNDING: None, other than personal.
STATUS: Complete.

Le Francais: Langue et Culture is a beginning French textbook intended primarily for university students. The book is made up of twenty-five chapters, each containing a dialog, grammatical explanation and exercises, and reading passage; five chapters of cultural material on France and its history, along with extensive grammar review exercises; four "Guides to Pronunciation" giving practical help in French vowels, consonants, intonation and liaison; and appendix containing verb chart, vocabularies, useful expressions, English translations of the dialogs, useful expressions, and helpful weights and measures.

In addition to the book itself, extensive supplementary materials are available. A Cahier d'exercices provides more practice in the grammar of each lesson. Tapes for language laboratory use give oral practice both in pronunciation and in grammatical work. Five sets of approximately 35 color slides each are available to illustrate the five cultural chapters, along with sound tapes containing the text printed in the book. And a comprehensive instructor's manual containing suggestions and sample lessons and plans includes also such topics as "Individualization of Instruction", "The Teaching of Culture and Civilization", "Testing and Evaluation." Sample tests, not only of pronunciation and grammar but also of comprehension, are given to aid the teacher. The materials both in the textbook and the supplementary aids have been tested in the beginning French classes of the University of Wisconsin-Eau Claire for three years.

DEPARTMENT OF GEOGRAPHY
Liaison: Dr. J. Foust

Research and Investigation

Alexander, James
Response to Volcanism in the Westmark Islands.
FUNDING: Other.
STATUS: In Progress.

Cahow, Adam
Glacial Geology of the Interstate Park and Bloomer Units of the Ice Age National Scientific Reserve.
FUNDING: University Research Grants.
STATUS: Complete.

Open file report - unpublished.

Glacial Geology of the Chippewa Moraine of Taylor County, Wisconsin.
FUNDING: University Research Grant.
STATUS: In Progress.

Fisher, James N.
A Study of the Wisconsin Ruffed Grouse with Emphasis on Harvest.
FUNDING: None, other than personal.
STATUS: In Progress.

Foust, Dr. James
FUNDING: None, other than personal.
STATUS: Complete.

Von Thunen's concept of economic rent is a fundamental principle in geographic theory. Translated literally into reality, however, it fails to explain modern agricultural patterns; but a simple extension of the principle may be useful. In the original model economic rent is a function of distance controlled by the parameters of the market price and the transportation rate for each commodity. In reality, economic rent is a function of fertility. From any point, in a specific direction, fertility will be primarily a function of only one of the controls of fertility--precipitation, temperature, or slope. If this control changes as a regular function of distance then distance becomes an acceptable surrogate for fertility change. Large-scale agricultural patterns can be shown to be the result of diminishing economic rent as a function of fertility/distance. An elementary empirical example is presented in the paper.

Goranson, Dr. Leonard
A Population and Housing Research Project for the Eau Claire-Chippewa Falls Urbanized Area.
FUNDING: University Research Grant.
STATUS: Complete.

The city of Eau Claire as of 1970 had only a 1 to 2 per cent vacancy ratio for rental properties. This constitutes rather a tight housing market since a 3 to 5 per cent ratio is regarded as essential for a healthy housing situation. In the areas adjacent to Eau Claire, housing conditions seem to be somewhat similar. The study area, therefore, consisted of the cities of Eau Claire, Chippewa Falls and Altoona, together with parts of nine townships continuous with them. Population and housing projections were made for wards in Eau Claire and Chippewa Falls and for each of the other minor civil divisions in the study area.

Kolka, Henry W.
Analysis of Wisconsin's Varied Landforms, Inventory of Special Natural Areas.
FUNDING: None, other than personal.
STATUS: In Progress.
Nichols, Dr. Roland
Leisure and Environment: A Geography of Outdoor Recreation.
FUNDING: None, other than personal.
STATUS: In Progress.

Pickett, Nancy
COLLABORATORS: Mary Calender, Elizabeth Hall
Bibliography of Wisconsin Topographic Maps.
FUNDING: None, other than personal.
STATUS: In Progress.

Tanner, Gilbert
Designed and produced 31 maps and graphics for PhD dissertation at UW-Milwaukee.
FUNDING: Other.
STATUS: Complete.
The study compared the area of downtown Milwaukee with the Metropolitan area primarily in terms of its economic impact. The included such topics as location, perception, regional shopping centers, and movement of employers.

Designed and produced 20 maps for West Central Wisconsin Regional Planning Commission.
FUNDING: Other.
STATUS: Complete.

Since its beginning we have worked closely with the West Central Wisconsin Regional Planning Commission as a Cartographic Consultant. We help design and produce regional planning maps for this agency.

Designed and produced 15 maps for PhD dissertation at University of Florida, Gainesville.
FUNDING: Other.
STATUS: Complete.
The maps included such topics as geology, general land use, karst features, differences in lake level, general location of study area.

2. Artistic Production, Showling, or Recital
Tanner, Gilbert
Illustrated Article (9 photographs) in winter issue of Wisconsin Trails.
FUNDING: None, other than personal.
STATUS: Complete.

On assignment from Wisconsin Trails I photographed the operation of the Leinenkugel Brewery at Chippewa Falls.

3. Major Student Research
Seltz, Kerlin
SUPERVISED STUDENTS: Paul Malnes, Leland Wolfgang, Walter Riley, Diane Lefler
Historical Geography of Chippewa Valley - Four Periods: Prehistoric, Indian, Lumber, Industrial.
FUNDING: None, other than personal.
STATUS: In Progress.

4. Dissertation Research

FUNDING: None, other than personal.
STATUS: In Progress.

6. Program with Federal or Foundation Support

Goranson, Dr. Leonard
A Population and Housing Study Making Projections to the Year 2000 for the West Central Wisconsin Seven County Planning Region.
FUNDING: Foundation.
STATUS: Complete.
The seven counties of West Central Wisconsin Planning Region are the only counties that have had varying rates of population growth. Whereas Chippewa, Dunn, Eau Claire, and St. Croix counties have had lower population growth, all through recent decades, Polk county has grown more slowly. On the other hand, Barron and Clark counties, which are mostly rural, have experienced a slight population decline.

Population projections were made for the seven counties using a projection model based on the Hamilton-Perry ratio correlation method. This method has applied the sex equations to the combined effects of mortality and migration rates. Estimates of expected population numbers were made for the seven counties for each decade to the year 2000. Projections of expected housing needs also were made on the basis of the population estimate.

7. Innovative Pedagogical Project

Palmer, Richard
FUNDING: None, other than personal.
STATUS: In Progress.

Tanner, Gilbert
Series of AT units for Geography 280: Introduction to Cartography for use in Fall 1974.
FUNDING: None, other than personal.
STATUS: In Progress.

Much of the information presented in my introductory cartography course has a strong visual orientation. I am preparing materials to adapt those parts of the course which lend themselves to this form in order to make the concepts more understandable.

DEPARTMENT OF GEOLOGY
Liaison: Dr. R. Myers

1. Research and Investigation

Bergstrom, Dr. John
Geology of the Barron-Blue Hills.
FUNDING: None, other than personal.
STATUS: In Progress.

Myers, Dr. Paul
Precambrian Geology of Chippewa and Eau Claire Counties, Wisconsin.
FUNDING: University Research Grant and Wisconsin Geological and Natural History Survey.
STATUS: In Progress.
Precambrian rocks in the Eau Claire region comprise strongly deformed and partially mobilized (granitic) biotite-garnet amphibolites and tectonically intruded granitic rocks of diverse composition and age. These rocks are cut by granite pegmatites and gabbro of Late Precambrian (?) age. East southeasterly into Clark County along strike of compositional lamination of the amphibolite-granite complex, intercalated mica schist, metaconglomerate, schistose greenstone, meta-tuff, tuffaceous siltstone, and felsic mylonite become the dominant rock types. This area shows potential for copper sulfide mineral deposits.

COLLABORATOR: Dr. Gordon Medaris
Petrology and Geochemistry of the Stettn syenite Pluton, Marathon County, Wisconsin.
FUNDING: Wisconsin Geological and Natural History Survey.
STATUS: In Progress.

The Stettn syenite pluton is oval in plan with dimensions of 5 x 3 miles and elongation in a north-easterly direction. Nepheline and 'tabular' syenite form a discontinuous composite wall zone, amphibole and pyroxene syenite occupy an intermediate zone, and nepheline syenite encloses a one-mile inner core of pyroxene syenite in this concentric intrusive body. Compared with the larger, more siliceous Wausau syenite body to the southeast, the Stettn body is decidedly more calcic. The two intrusives, however, are believed to be comagmatic and nearly the same age.

Geology of Harpster Quadrangle and Vicinity, Idaho.
FUNDING: None, other than personal.
STATUS: In Progress.

Several publications are being prepared for publication based on the work done in this area:
1) for Idaho Bureau of Mines and Geology - a version of my dissertation (University of Michigan, 1968), all necessary to be done is completion of drafting on geologic map and several other figures. Project is otherwise complete.
2) Paper for Geological Society of America on 'Wedge Emplacement of the Western Margin of the Idaho Batholith'. Research done: needs to be written.

Petrology of Volcanic Rocks, South Park, Jackson, Wyoming.
FUNDING: None, other than personal.
STATUS: In Progress.

Volcanic Rocks of post-Pleistocene age were erupted in the South Park area of Jackson Hole, Wyoming. A field and petrographic study of these rocks is underway to determine extent of genetic and secular relations among them, and to add to our understanding of the complex volcanic, structural, and sedimentary history of this fault basin.

3. Major Student Research
Wille, Dr. Ronald F. SUPERVISED STUDENT: Richard Kopp
Geology of the South Mondovi Quadrangle.
FUNDING: None, other than personal.
STATUS: Complete.

This was an independent study project of the student.

DEPARTMENT OF HISTORY
Liaison: Dr. T. Parnam

1. Research and Investigation
Bergstrom, Leonard COLLABORATOR: Marie B. Rosenberg
FUNDING: None, other than personal.
STATUS: Complete.

Women and Society is the most complete cumulation of citations covering the topic of women and society. This book includes over 3,500 citations from the most comprehensive and outstanding works in this significant and increasingly timely field of study. An extremely useful aspect of Women and Society is its extensive cross-referencing index system.

Mickel, Dr. Ronald Concepts of Black Americans Held by White Intellectuals in the 1920s.
FUNDING: None, other than personal.
STATUS: In Progress.

Wassow, Dr. Walter Europe in the 18th Century-Readings.
FUNDING: None, other than personal.
STATUS: In Progress.

I am compiling a book of documents for inclusion in a series in Western Civilization to be published this spring by Forum Press. In addition I have been serving as reader for their Forums in History, a collection of brief topical monographs.

3. Major Student Research
Mickel, Dr. Ronald L. SUPERVISED STUDENT: Curtiss Mortimer
The Origins of Clerical and Lay Fundamentalism in the 1920s.
FUNDING: None, other than personal.
STATUS: In Progress.

SUPERVISED STUDENT: Craig Campbell
The Movies and World War I.
FUNDING: None, other than personal.
STATUS: In Progress.

4. Dissertation Research
FUNDING: None, other than personal.
STATUS: In Progress.

DEPARTMENT OF MATHEMATICS
Liaison: Dr. J. Teeters

1. Research and Investigation
Blerman, Dr. Orville
Monotone Union Properties for Manifolds.
FUNDING: None, other than personal.
STATUS: In Progress.

Teeters, Dr. Joseph
Applications of Geometric Transformations in the Creation of Periodic Tessellations.
2. Artistic Production, Showing, or Recital

Teeters, Dr. Joseph
Periodic Tessellation Art.

FUNDING: None, other than personal.
STATUS: In Progress.

Showing at Northwest Education Association and Wisconsin Section of Mathematical Association of America.

3. Major Student Research

Hoppe, Wilbur
SUPERVISOR: Gregory Jeeck
Geometric Analysis of Macroyclic Polythi ethers.

FUNDING: None, other than personal.
STATUS: Complete.

This project develops formulas for calculating the distances between various elements which combine to form certain chemical compounds. The calculations make extensive use of the geometry of a tetrahedron.

SUPERVISOR: Martin Bulgerin
Generalized Least Squares Fitting.

FUNDING: None, other than personal.
STATUS: Complete.

This project generalizes least-squares techniques to include initial conditions. The method enables one to fit a function which is a linear combination of functions from n-space to the reals taking into account the initial "condition points". Included is a powerful notation for the manipulation of the sums involved in the method.

SUPERVISOR: Martin Bulgerin
Modular Coloring of Pascal's Triangle.

FUNDING: None, other than personal.
STATUS: In Progress.

4. Dissertation Research

Sparks, Billie Earl
Student Achievement In Solving Verbal Problems Related to Teacher Training and Experience.

FUNDING: None, other than personal.
STATUS: In Progress.

DEPARTMENT OF MUSIC
Liaison: Dr. A. Cunningham

FUNDING: None, other than personal.
STATUS: Complete.

Goodwin, Lynda
An Analysis of Serial-like Relationships and of Motivic Development in Aaron Copland's Piano Variations.

FUNDING: None, other than personal.
STATUS: Complete.

The purpose of this study is to investigate the serial-like relationships existing between the theme and the thematic and accompanimental materials of the variations and, subsequently, to describe the motivic development found in the composition.

The preceding serial analysis of the theme, variations, and coda reveal the various ways in which Copland treats the twelve tones of the composition. He manipulates the original series using transposition, change of order or sequence, octave displacement, rhythmic displacement, enharmonic spellings, interpolations, and change of time signatures. Copland most often maintains the sequence of the series so that the "tone row" can be recognized in some way. The serial technique in this composition is closely but not strictly related to the kind of strict tone row treatment which normally forms the basis for a serial composition.

Hayes, Morris
An Annotated List of Selected Male Choral Literature Recommended for Performance.

FUNDING: None, other than personal.
STATUS: In Progress.

2. Artistic Production, Showing, or Recital

Bennett, Roy
Graduate Recital.

FUNDING: None, other than personal.
STATUS: Complete.

Presented in partial fulfillment of the requirements for the Doctor of Musical Arts degree at Louisiana State University. Roy Bennett, violist, performing works by Bach, Glina, Hindemith, and David, April 2, 1973.

Solo Appearance with the Louisiana State University Symphony Orchestra. May 1, 1973.

FUNDING: None, other than personal.
STATUS: Complete.

Burky, Kenneth L.
Faculty Piano Concert, UW-Eau Claire, March 7, 1973.

Piano Concert and Workshop, Youngstown University, Dana School of Music, Youngstown, Ohio, March 25-27, 1973.

FUNDING: None, other than personal.
STATUS: Complete.

COLLABORATOR: Paul Koszewer


Faculty Recital, Accompanied Paul Koszewer, cello, UW-Eau Claire, October 17, 1973.

FUNDING: None, other than personal.
STATUS: Complete.
Solo piano recital on Monday, April 2, 1973, Fine Arts Center, Featured Sonata in E flat major, Op. 81a, Beethoven; Gaspard de la Nuit (1908) by Ravel; C sharp minor Scherzo, Chopin; Sonata No. 4 by Scriabin; and closed with the Prokofieff Toccata, Op. 11 (1912).

COLLABORATOR: Henry Faust
Vocal/Plano Recital.

FUNDING: Other.
STATUS: Complete.

Joint recital promoting co-operation between music faculties featured vocal works of Haydn, Schubert and Mussorgsky and piano works of Chopin.

Dedicated Piano Recital in Rice Lake, Wisconsin.

FUNDING: Other.
STATUS: Complete.

The Beethoven 'Waldstein' Sonata and the Pictures at an Exhibition by Mussorgsky were featured in this recital which celebrated the purchase of a new grand piano for the city of Rice Lake, Wisconsin.

Dedicated Piano Recital in Eau Claire, Wisconsin.

FUNDING: Other.
STATUS: Complete.

The Beethoven 'Waldstein' Sonata and the Pictures at an Exhibition by Mussorgsky were featured in this private recital which celebrated the purchase of a new grand piano at an Eau Claire, Wisconsin, residence.

COLLABORATOR: Dr. Eugene Rosseau
Piano and Woodwind Workshop Faculty Recital, Indianhead Arts Center.

FUNDING: Other.
STATUS: Complete.

Recital which featured the clinicians as performing faculty in major works for the saxophone and piano.

COLLABORATORS: Dr. Howard Swan, Morris Hayes
Fourteenth Annual High School Choral and Directors' Clinic, (Assisting Pianist).

FUNDING: Departmental.
STATUS: Complete.

Public concert which featured the Festival Chorus under the baton of Dr. Swan in works of Palestrina, Lassus, Handel, Brahms and Spencer.

Hohmann, Dr. Rupert
Baroque Ensemble Concert, February 29, 1973, Fine Arts Center Concert Hall.

FUNDING: Departmental.
STATUS: Complete.

Fifth Contemporary Music Symposium, March 9-11, 1973, Fine Arts Center Concert Hall.

FUNDING: Departmental.
STATUS: Complete.

"Damn Yankees" Production, March 14-17, 19-23, 1973, Kjer Theater.
The University Orchestra Spring Concert, March 18, 1973, Fine Arts Center Concert Hall.
**FUNDING:** Departmental.  
**STATUS:** Complete.

University Chamber Orchestra appearance, April 14, 1973, Fine Arts Center Concert Hall.
**FUNDING:** Departmental.  
**STATUS:** Complete.

The University Choral Union Concert, University arena, May 6, 1973, orchestra appearance.
**FUNDING:** Departmental.  
**STATUS:** Complete.

The University Orchestra Concert, October 21, 1973, Fine Arts Center Concert Hall.
**FUNDING:** Departmental.  
**STATUS:** Complete.

University Chamber Orchestra Concert, October 29, 1973, Fine Arts Center Concert Hall.
**FUNDING:** Departmental.  
**STATUS:** Complete.

"Mikado" by Gilbert and Sullivan, November 6-10, 12-15, 1973, Kjer Theater.
**FUNDING:** Departmental and Other.  
**STATUS:** Complete.

Faculty Piano Trio Concert, December 2, 1973, Fine Arts Center Concert Hall.
**FUNDING:** Departmental.  
**STATUS:** Complete.

SUPERVISED STUDENT: Keith Montgomery
Senior Violin Recital, May 1, 1973, Fine Arts Center Concert Hall.
**FUNDING:** Departmental.  
**STATUS:** Complete.

Kosower, Paul
Cello Recital at Mt. Sanario College, April 8, 1973.
**FUNDING:** Other.  
**STATUS:** Complete.

Five Pieces in Folk Style, Op. 102-Schumann, Suite No. 5 in C Minor-Bach, Debussy Sonata, Brahms Sonata No. 2 in F Major.

Cello Recital at UW-Eau Claire, April 11, 1973.
**FUNDING:** None, other than personal.  
**STATUS:** Complete.

Sonata in A Major-Beethoven, Variations by Martinu, Suite No. 5-Bach.

**FUNDING:** None, other than personal.  
**STATUS:** Complete.

Sonata in A Major-Beethoven, Sonata in d minor-Debussy, Suite No. 5-Bach, Variations by Martinu, Sonata No. 2 in F Major-Brahms.

Cello Recital at UW-Eau Claire, October 17, 1973.
**FUNDING:** None, other than personal.  
**STATUS:** Complete.

Sonata in g minor-Chopin, Suite No. 2 in d minor by Bach, Concerto in C Major-Haydn.

**FUNDING:** None, other than personal.  
**STATUS:** Complete.

**FUNDING:** None, other than personal.  
**STATUS:** Complete.

Beethoven trio in D Major, Schubert Trio in E flat Major.

**FUNDING:** None, other than personal.  
**STATUS:** Complete.

University Chorus Concert, November, 1973, accompanist.
**FUNDING:** None, other than personal.  
**STATUS:** Complete.

Lunde, Nanette COLLABORATOR: Ivar Lunde  
Faculty Harpsichord Recital, September 16, 1973, Fine Arts Center Concert Hall.
**FUNDING:** None, other than personal.  
**STATUS:** Complete.

Program included works for one and two harpsichords by Bach, Byrd, Fröberger, Le Roux, Farnaby, F. Couperin and Forqueray.

Lunde, Ivar COLLABORATORS: Nancy Rice, Nanette Lunde  
Faculty Recital, September 23, 1973, Fine Arts Concert Hall.
**FUNDING:** None, other than personal.  
**STATUS:** Complete.

Supervised Student: Peggy Scavine
Recital to be performed March 13, 1974.
Funding: None, other than personal.
Status: In progress.

Works will include Mozart "Sonata K. 526", Schumann "Fantasy Pieces", and Albeniz "Spanish Pieces".

Scheffel, Dr. Kenneth Collaborator: David Morgan
Production of "Mikado".
Funding: Departmental.
Status: Complete.

Faculty Recital.
Funding: None, other than personal.
Status: In progress.

3. Major Student Research

Hendel, Penelope C. Supervised Student: Susan Gilbertson
Student Piano Recital.
Funding: None, other than personal.
Status: Complete.

Plano recital on Wednesday, February 28, 1973,
Fine Arts Center, featured Sonatas in F major, Op. 10, No. 2 by Beethoven and three Chopin Etudes.

Supervised Student: Susan Gilbertson
Student Piano Recital.
Funding: None, other than personal.
Status: Complete.

The object of this Independent Study project was to achieve within a specific time period a professional level of piano solo performance, which culminated in the public performance of Mozart Sonata in A major, K. 311, Chopin Scherzo in E major, and the Out of Doors Suite, Sz. 81 by Bartok.

Supervised Student: Anthony Sirlanni
Student Piano Recital.
Funding: None, other than personal.
Status: Complete.

The object of this Independent Study project was to achieve within a specific time period a professional level of piano solo performance, which culminated in the public performance of the Beethoven Thirty-two Variations in C minor, WoO 80, The Second Chopin Sonata, and Jeux d'Eau by Ravel.

Supervised Student: Mary Indermuehle
Student Piano Recital.
Funding: None, other than personal.
Status: Complete.

The object of this Independent Study project was to achieve within a specific time period a professional level of piano solo performance, which culminated in the public performance of the Third French Suite by Bach, the Sonata in B major, Op. 28 by Beethoven and the C# minor Scherzo of Chopin.

Hilbrich, Dr. Paul Supervised Student: Ruth Peters
Funding: None, other than personal.
Status: In progress.

Program included works by Beethoven, Chopin, Ravel, and Bartok.
7. Innovative Pedagogical Project

Cunningham, Dr. Michael
A Freshman-Sophomore Theory textbook.
FUNDING: None, other than personal.
STATUS: In Progress.

A Counterpoint Textbook dealing with the style of the 18th century.
FUNDING: None, other than personal.
STATUS: In Progress.

Ganter, Robert
Ear Training and Dictation Exercises to Accompany Any Basic Text in Music Theory.
FUNDING: Departmental.
STATUS: In Progress.

4. Dissertation Research

Melrose, John
The Effectiveness of Dictation Practice on the Letter-Writing Performance of Students Enrolled in University Business Communication Courses.
FUNDING: None, other than personal.
STATUS: In Progress.

Schillak, John R.
The Impact of the computer on the job activities of individuals employed in the financial information system (Accounting) of industries located in the greater Madison, Wisconsin area.
FUNDING: None, other than personal.
STATUS: In Progress.

6. Program with Federal or Foundation Support

Korn, Dr. Willard
FUNDING: Federal.
STATUS: Complete.

Through the Wisconsin Vocational Technical and Adult Education board money were procured to fund 20 teachers to come to UW-Eau Claire for a seven day workshop on data communications and how vocational school teachers could possibly improve the data processing curriculum by using data communication concepts.

Korn, Dr. Willard
COLLABORATOR: Dr. Kaye Nuck
SUPERVISED STUDENTS: Craig Marvin, Tom Stockhart
Use of the computer to aid in developing repetitive drill material for teaching typewriting.
FUNDING: None other than personal.
STATUS: Complete.

A great number of typewriting teachers are confronted by the problem of preparing supplementary practice material for students. Inherent to the problem is that only certain alphabetical characters can be used for particular lessons as the student learns the characters on the keyboard. The above name project prepares words in order of letter character is first introduced, the number of syllables in the word, and in alphabetical order. There are approximately 10,000 words. The order of words will vary from textbook to textbook as well.

Korn, Dr. Willard
SUPERVISED STUDENTS: Craig Marvin
Development of an Automated Study Guide for Courses Taught at UW-Eau Claire.
FUNDING: None other than personal.
STATUS: In Progress.

A system for producing study guides for students in a particular course was developed. By means of one parameter card, the student can access a data base of questions concerning a subject. Randomly, the program will "generate" a study guide based on the inputted data prescribed by the teacher and/or chosen by the student.

3. Major Student Research

Korn, Dr. Willard
SUPERVISED STUDENTS: John Hoseng
Rick Zillman
FUNDING: None, other than personal.
STATUS: Complete.

Often teaching programming concepts is clouded by technical details of a computer language. In order to alleviate some of the problems "details" a hypothetical language which enables the teaching of basic concepts rather than rules of a language was developed. This simulator has been used successfully by faculty on the UW-Eau Claire campus.
6. Program with Federal or Foundations Support

Scott, Summer COLLABORATORS: Dr. Donald Ballegger, Dr. Benjamin Thompson
workshop in AAAS developed elementary school science curriculum: "Science - A Process Approach".

FUNDING: Federal.
STATUS: In Progress.

7. Innovative Pedagogical Project

Chute, Dr. Philip COLLABORATOR: Sumner Scott
Development of Laboratory for Physical Science Courses 110 and 111.

FUNDING: Departmental.
STATUS: In Progress.

Olson, Chester
Metric System Study Prints.

FUNDING: None, other than personal.
STATUS: Complete.

Metric System Study Prints, designed for upper elementary and junior high school teachers, consists of ten 33 x 46 cm colored photos each related to metric measurement. The reverse side of each print contains a brief description of the measure, how it is used, historical background, fundamental unit, useful prefixes, mathematical notations including powers of ten, common conversions and more photos.

DEPARTMENT OF PHYSICAL EDUCATION
Liaison: Dr. R. Scott

7. Innovative Pedagogical Project

Kurth, Dr. Stephen COLLABORATORS: Dr. James Rice, Dr. Ida Hinz
UW-Eau Claire Cardiac Rehabilitation Program.

FUNDING: Other.
STATUS: In Progress.

Hero, Mary

FUNDING: Campus.
STATUS: In Progress.

DEPARTMENT OF PHYSICS
Liaison: Dr. F. Schwartz

1. Research and Investigation

Ballegger, Dr. Donald
Investigation of Semiconductor Plasmas with an Infrared Laser.

FUNDING: University Research Grant.
STATUS: In Progress.
Sundby, Dr. Elmer  COLLABORATOR: Jack Shaffer
Childhood Reinforcement and Adult Behavior of
Urban and Rural Thal.

FUNDING: None, other than personal.
STATUS: In Progress.

3. Major Student Research

Proctor, Dr. David  SUPERVISED STUDENT: Kathleen
Strong
A Study of Children's Classroom Drawings as a
Screening Instrument for Maladjustment in Sixth
Grade.

FUNDING: Departmental.
STATUS: Complete.

Using an adjustment criterion based on a sixth
grade child's achievement in relation to estimated
potential achievement, and on the teacher's ratings
of a child's adjustment to school, item analyses
were computed on a variety of observable characteris-
tics of children's drawings of their own classrooms.
This procedure generated small groups of potentially
useful diagnostic signs, some of which were
treated as a preliminary draft of a test of adjust-
ment for the purpose of further analysis and ex-
ploration.

4. Dissertation Research

Barker, Ellen  Thesis.

FUNDING: None, other than personal.
STATUS: In Progress.

Heilmann, Dr. Kenneth  COLLABORATOR: David Nuesse
Development of a graphic display of course enroll-
ments (in Psychology) for the past five years
using a computer graphing program.

FUNDING: None, other than personal.
STATUS: Complete.

This program provides a graphic display of mean
class sizes in the Psychology Department for the
past five years. Cards with enrollment statistics
for each course are obtained every semester to
update the printout.

DEPARTMENT OF SOCIOLOGY
Liaison: M. Utach

1. Research and Investigation

Flora, Dr. George  A Critique of the Contemporary (Wallace's)
Model of Scientific Sociology, a Review and Analysis of
Classifications of Sociology, and a Proposed
Typology that includes: Scientific Sociology, Theo-
retical Sociology, Descriptive Sociology, and
Typological Sociology.

FUNDING: None, other than personal.
STATUS: In Progress.

FUNDING: Personal, using data gathered under
earlier grants.
STATUS: In Progress.

Williams, Dr. James
Indian Health and Population Growth.

FUNDING: Federal.
STATUS: Complete.

The project is not really complete, in that not all
of the data collected have been thoroughly analyzed.
A report was sent to Washington in September, 1973,
which presented the findings of the study up to
that time. It included an analysis of American
Indian census materials published since 1900, a
series of estimates of fertility and mortality for
each decade since 1900, and the results of a field
study conducted on the Bad River reservation in
Northern Wisconsin.

3. Major Student Research

Traynor, Dr. David  SUPERVISED STUDENT: Josette Martin
A Survey of Wisconsin Family Physicians.

FUNDING: None, other than personal.
STATUS: Complete.

Possible publication or presentation at profession-
al meetings in Spring, 1974.

4. Dissertation Research

Hisrich, Joseph
Engel's theory of class sexual exploitation and the
role conflicts and role sets of women employed in
selected occupations.

FUNDING: Private and organizational time and post-
age.
STATUS: In Progress.

Minkus, Helaune
The Philosophy of the Akwam Akan, (southern
Ghana).

FUNDING: Federal.
STATUS: In Progress.

Swanson, Robert
Social Worker Decisions in the Foster Care Field.

FUNDING: None, other than personal.
STATUS: In Progress.

5. Institutional Study

Trojan, Dr. David
Professionalism/Unionism in Academia: The Function
of the Faculty Association.

FUNDING: None, other than personal.
STATUS: In Progress.

6. Program with Federal or Foundation Support

Johnson, David J.
Improvement of Undergraduate Social Work Education.

FUNDING: Federal.
STATUS: In Progress.
4. Dissertation Research

Collins, Dr. Claudia
Semantic Aspects of Normal and Syntactically Deviant Children.

FUNDING: None, other than personal.
STATUS: Complete.

Semantic aspects on the oral language of 18 normal and 18 syntactically deviant third, fourth, and fifth grade boys were investigated. Recent literature from the fields of linguistics and psycholinguistics has indicated that the relationships between the semantic and syntactic components of grammar could be applied to an understanding of the language learning abilities of children. Fillmore's theory of case relationships was used to inquire into the intuitive abilities of certain pairs of related verbs in sentences. The major hypothesis of this study was that certain syntactically deviant children are deficient in their ability to make intuitive judgments on sentences containing eight predicate pairs.

Holler, Dr. Bernard
A Suggested University Preparation Program for Directors of Special Education in Illinois Based Upon a Survey of Their Actual and Ideal Performances and the Importance They Place Upon Them.

FUNDING: None.
STATUS: Complete.

It is a reaction of research in the area of administration of special education in Illinois. The problem is that the commonalities of the director of special education have not been identified in order to have a basis for university preparation programs for future directors. A questionnaire was developed from related literature and consultation with others in the field of administration in special education. The questions were designed to survey the actual and ideal performances of the director of special education and the importance they place upon each performance. The test was mailed to each director of special education in the public schools of Illinois. A suggested university preparation program for directors of special education in Illinois based upon the actual and ideal performances of the directorship was prepared.

7. Innovative Pedagogical Project

Dupont, Dr. Henry
COLLABORATORS: Dr. David S. Brody
Mrs. Devita Sue Gardner
Teaching for Affective Development.

FUNDING: None.
STATUS: In Progress.

Teaching for Affective Development is a curriculum kit with a manual of instructions and guidelines, and 100 lessons and activities for use in grades 3 through 6. The lessons and activities are designed to stimulate psychological and affective development. The kit includes materials that are needed for the lessons. The target date for publication is September, 1974.

1. Research and Investigation

Peters, Dr. Theodore
SUPERVISED STUDENT: G. Sharpe

FUNDING: None, other than personal.
STATUS: Complete.

A questionnaire survey was used to investigate five major questions relative to the present knowledge of public school speech clinicians in the Eau Claire area on the subject of normal language development and language disorders and how they are applying this knowledge of their work. The results of the questionnaire and implications for training clinicians were discussed.

SUPERVISED STUDENT: N. Zanotelli
Employer's Attitudes Toward Hiring Individuals with Speech and Language Deviations.

FUNDING: None, other than personal.
STATUS: Complete.

This study investigated employer's attitudes towards hiring individuals with articulation, voice, fluency, and language deviations. Employers responded to taped recordings and indicated whether they would hire the person for a position that required him to speak with the public, with other employees but not public, or not being required to speak with either the public or their employees. The results indicated that most employers were unwilling to hire individuals with speech or language deviations for positions requiring them to speak with the public.

Poulsen, Mrs. Ann

FUNDING: None, other than personal.
STATUS: Complete.


Walsh, Grace
Annotated Bibliography in Forensics.

FUNDING: None, other than personal.
STATUS: Complete.

An annotated bibliography in forensics prepared at request of Forensics Division of Speech Communication Association.

2. Artistic Production, Showings, or Recital

Denson, Wil

FUNDING: Departmental.
STATUS: Complete.

Hirsch, Virginia
The Man Who Killed Time, Children's Carnival, The Mirrorman.

FUNDING: Departmental.
STATUS: Complete.
McDonnell, William

The Hollow Crown.

FUNDING: Departmental and Other.
STATUS: Complete.

Wolff, Dr. Wayne COLLABORATORS: David Morgan, William Baumgartner

The Time of Your Life.

FUNDING: Departmental and Other.
STATUS: Complete.

Designed scenery and lighting for this production of this play by William Saroyan. Directed by David Morgan, technical direction by William Baumgartner.

COLLABORATORS: William Baumgartner, Virginia Hirsch

The Man Who Killed Time.

FUNDING: Departmental and Other.
STATUS: Complete.

Designed the lighting for this production of this children's play. The scenery was designed by William Baumgartner and the play was directed by Virginia Hirsch.

COLLABORATORS: David Morgan, Rupert Mohnmann, William Baumgartner

Damn Yankees.

FUNDING: Departmental and Other.
STATUS: Complete.

Designed scenery and lighting for this musical production. The technical direction was by William Baumgartner and it was directed by David Morgan. Orchestra was conducted by Rupert Mohnmann.

COLLABORATORS: William McDonnell, William Baumgartner

The Hollow Crown.

FUNDING: Departmental and Other.
STATUS: Complete.

Designed the lighting and was technical director for this play's theatre production. It was directed by William McDonnell, and the scenery designed by William Baumgartner.

COLLABORATOR: Wil Denson

Guys and Dolls.

FUNDING: Departmental and Other.
STATUS: Complete.

Designed the scenery and lighting and was technical director for this musical comedy production which was directed by Wil Denson.

COLLABORATOR: David Morgan

You Can't Take It With You.

FUNDING: Departmental and Other.
STATUS: Complete.

Designed the scenery and lighting for this play which was directed by David Morgan.

COLLABORATOR: Wil Denson

Forty Carats.

FUNDING: Departmental and Other.
STATUS: Complete.

Designed the three sets and lighting for this play which was directed by Wil Denson.

COLLABORATOR: David Morgan

The Lost of the Red Hot Lovers.

FUNDING: Departmental and Other.
STATUS: Complete.

Designed the scenery and lighting for this play which was directed by David Morgan.

COLLABORATOR: Wil Denson

The Effect of Gamma Rays Upon Man-in-the-Moon Marigolds.

FUNDING: Departmental and Other.
STATUS: Complete.

Designed the scenery and lighting for this production which was directed by Wil Denson.

COLLABORATOR: Virginia Hirsch

The Mirror Man.

FUNDING: Departmental and Other.
STATUS: Complete.

Designed the scenery and lighting for this children's theater production directed by Virginia Hirsch.

COLLABORATOR: David Morgan, Rupert Mohnmann, Kenneth Scheffel

The Mikado.

FUNDING: Departmental and Other.
STATUS: Complete.

Designed the scenery and lighting for this production of the Gilbert and Sullivan comic opera which was directed by David Morgan, musical director, Kenneth Scheffel and orchestral conductor--Rupert Mohnmann.

3. Major Student Research

Kruse, Dr. Robert SUPERVISED STUDENT: Ellen Hopfenberger

Differential Perceptual Ability Among Certain Language Delayed and Non-Language Delayed Children.

FUNDING: None, other than personal.
STATUS: Complete.

This study explored possible relationships between perceptual development and language development. Normal children and language delayed children were compared with regard to receptive language ability, expressive language ability, visual motor ability, auditory perceptual ability and oral-sterNEognosic ability.

SUPERVISED STUDENT: Jill Hrdlicka

The Regularity of Irregular Verbs.

FUNDING: None, other than personal.
STATUS: Complete.

An investigation of the performance of 31 adult subjects on several nonce phrase verb tasks to determine any articulatory regularity in the inflection of irregular verbs.

Mueller, Dr. Peter SUPERVISED STUDENT: Kris Styles

The Effect of Reality Group Therapy Procedures upon Communication Skills of Aphasic and Non-Aphasic Geriatric Patients.
4. Dissertation Research

Hirsch, Virginia
Edith Head - American Costume Designer.

FUNDING: University of Kansas.
STATUS: Complete.

A comprehensive study of the professional work of film costume designer Edith Head, compiled with her film credits, her philosophy of design, short biography, and analysis of her academy award designs.

UNIVERSITY LIBRARY
Liaison: R. Bell

1. Research and Investigation

Bell, Richard
Cumulative Author-Subject Index to Wisconsin Trails.

FUNDING: None, other than personal.
STATUS: In Progress.

Engeldinger, Eugene
Bibliography of Guides to Graduate Study.

FUNDING: University Research Grant.
STATUS: In Progress.

Cumulative Author-Subject Index to the Wisconsin
Academy Review, V. I-19.

FUNDING: None, other than personal.
STATUS: In Progress.

COLLABORATOR: Barbara Stevens
Cumulative Author-Subject Index to the Wisconsin

FUNDING: None, other than personal.
STATUS: In Progress.

Stevens, Barbara
COLLABORATOR: Eugene Engeldinger
Cumulative Author-Subject Index to the Wisconsin

FUNDING: None, other than personal.
STATUS: In Progress.

NON-DEPARTMENTAL

1. Research and Investigation

Garrick, Dr. R. Kent
COLLABORATOR: David Nuesse
Persistence as a Predictor of Success Within a
School of Nursing - 1972.

FUNDING: Departmental.
STATUS: In Progress.

Research - Admission to the School of Nursing, 1973.

FUNDING: Departmental.
STATUS: Complete.

During the spring of their freshman year 169 students applied for admission to the School of Nursing. This study attempted to isolate those factors that were significant in their being admitted to the School of Nursing. Some conclusions were drawn indicating that there are some variables that are more usable in predicting success in the screening process than others.

O'Neill, Dr. John
COLLABORATORS: Dennis Johnson, Marguerite Clark

FUNDING: Other.
STATUS: In Progress.

Carter, Hilda
SUPERVISED STUDENT: John Jendsvold
History of the University of Wisconsin-Eau Claire.

FUNDING: Other.
STATUS: In Progress.

6. Program with Federal or Foundation Support

Jamison, Dr. Edward A.
COLLABORATOR: Center for Latin America, UW-Milwaukee
Workshop on Resources for Elementary and Secondary
School Latin American Language and Area Studies,
May 10-11, 1974, Eau Claire.

FUNDING: Federal.
STATUS: In Progress.

5. Institutional Study

Slock, Louis E.
Speaker's Bureau.

FUNDING: Departmental.
STATUS: Complete.

This bulletin is an aid in program planning as it lists faculty members who have indicated a willingness to accept a limited number of engagements to speak or to provide programs on the topics listed.

7. Innovative Pedagogical Project

Whooley, Dr. John
A Systematic Plan for the Evaluation of Instruction
in the Department of Secondary and Continuing Educa-
tion at the University of Wisconsin-Eau Claire.

FUNDING: Departmental.
STATUS: Complete.

The plan is a delineation of purpose, concepts essential to the plan, components, essential terminology, responsibilities and instrumentation. Additionally a grid interrelating components, criteria, data sources, instrumentation and implementation calendar is offered. The plan is based on one designed by the developer for the School of Education in turn based on the plan prepared for the evaluation summer committee (1971) chaired by the developer.

The effect of a lymphocyte product induced by exposing mouse lymphocytes 
to several mycobacterial antigens on the growth of virulent tubercle 
bacilli in vitro was determined. It was found that 
spontaneous lymphocytes from animals immunized with cells of the attenuated H37Rv strain of Mycobacterium tubercu-
losis when cultured in vitro with H37Rv cells, purified Protein Derivative (PPD) and mycobacterial 
ribonucleic acid (mRNA) produced a lymphocyte growth 
fluid which inhibited the growth of virulent tubercle bacilli 
within macrophages in tissue cultures. If splenic 
lymphocytes from animals immunized with mRNA were 
exposed to the same antigens, only those cultured in the presence of H37Rv cells or mRNA produced the factor. 
Lymphocytes obtained from mice immunized with mRNA, 
did not produce a mycobacterial growth-inhibiting factor 
when cultured in the presence of PPD to a greater extent 
than cells from nonimmunized animals, thus indicating 
the lack of shared antigens between PPD and mRNA.


Lymphocytes from animals immunized with Listeria were 
examined for their capacity to produce a product or products 
that would inhibit the intracellular growth of 
virulent tubercle bacilli. When lymphocytes from 
C57BL/6 mice immunized with Listeria monocytogenes were 
cultured with Listeria cells in vitro, supernatant 
fluids were generated which inhibited the intramac-
rophage growth of virulent tubercle bacilli. If Listeria 
cells were added to lymphocytes from nonimmunized mice, 
or lymphocytes from mice immunized with attenuated mycob-
acteria, supernatant fluids again were obtained which 
inhibited the intracellular growth of virulent tubercle bacilli.

The effect of phytohemagglutinin (PHA) and Concanavalin A (Con A) on lymphocytes obtained from nonimmunized mice 
and lymphocytes immunized with attenuated mycobacterial 
cells was measured. Supernatant fluids from cultures of 
lymphocytes from nonimmunized and immunized mice to 
which PHA had been added did not result in inhibition of 
the intracellular growth of virulent tubercle bacilli. 
When Con A was added to cultures of lymphocytes from 
nonimmune, or cultures of lymphocytes from animals im-
munized against mycobacteria both supernatant fluids 
brought about the inhibition of the intracellular growth 
of virulent tubercle bacilli.


Lymphocyte supernatant fluids were simultaneously exam-
ined for their content of mouse migration-inhibitory factor 
(MIF) and mycobacterial growth-inhibitory activity 
(Mycif). Although in certain experiments lymphocyte 
supernatant fluids were found to have both MIF and 
Mycif, the presence of both lymphocyte products was not 
necessary for the demonstration of the inhibition 
of growth of intracellular tubercle bacilli or inhibition of the migration of macrophages. Since MIF could be 
found in certain of the lymphocyte supernatant fluids 
which did not inhibit the intracellular growth of viru-
ntubercle bacilli, and Mycif was found in lympho-
cyte supernatant fluids that did not inhibit the 
migration of macrophages, the results indicate that Mycif and 
MIF are different substances. The results suggest, also, 
that tuberculin hypersensitivity and immunity to tubercu-
losis are mediated by different lymphokines and are, 
therefore, unrelated phenomena.


The primary objective of this research was carried out 
in the summer and fall of 1959 and 1970 was to deter-
mine the possible changes which would take place in 
Lake Superior periphyton when polluting or enriching 
substances were added to the lake water. To this end, 
two natural rock basins were constructed at the lake-
side along the north shore at Castle Danger, Minnesota 
for the purpose of exposing naturally growing and regrow-
ning periphyton to higher-than-normal levels of phosphate 
and nitrate. At weekly intervals, samples were collected 
and productivity was measured by enumeration of organ-
isms, chlorophyll analysis, and weight, dry and organic.

Lake Superior periphyton responds dramatically to 
increased additions of phosphorus and nitrogen, if the 
near-shore area of Lake Superior ever received nutri-
ents, such as those added to the experimental test pool 
at Castle Danger, a drastic change in the lake's biota 
could occur. For example, as enrichment increased, 
the predominant clean-water diatom forms could eventually 
be replaced by the more tolerant green or blue-green 
algae. In addition, the very composition of the macro-
benthic forms found in Lake Superior could be altered 
as a result of their dependence on the periphyton, 
which, as primary producers, form the first link in the 
food chain. Likewise, certain fish which depend on 
benthic organisms for their food may be adversely af-
fected as an indirect result of a changing periphyton 
community.

Having established that enrichment of Lake Superior 
water will dramatically change the normal periphyton 
growth, another biologist has been established for fu-
ture reference in the event that phosphorus and nitrogen 
rich wastes should be added to the lake. If cer-
tain types of algae appear as replacements of the nor-
mal flora now characterizing the periphyton and the 
productivity increases, one will have a means for as-
sessing the possible changes taking place in the water 
quality of Lake Superior.

Purpose of the article was to point out and discuss this problem: So far, typical affirmative responses to the many existential questions in aesthetic (and other) education are enthusiastic discussion and general agreement that "something must be done." This is inadequate, however, because existential answers can come only in the form of doing something. It appears immediate action is absolutely vital if these changes which, almost alone, can save education are to actually happen. If the changes do not actually happen, survival of education is unsure. Many kinds of action are possible. The ones described and examined in this article emphasize an authentic existential student-teacher encounter that is an exciting, mutual, creative learning relationship. If institutional action is taken, it is a shift to absolutely essential change with needed urgency and genuinely appropriate answers, then individual teachers must fill the need with existentialist-based action which helps each student find existential answers to his own existential questions. Aesthetic educators (all educators) must take this action now because, if change is to come at all, it must come soon or it may be too late.


Liver carbamyl phosphate synthetase was assayed in representative primitive freshwater pony fishes: Squalichthys platysurus (shovelnose sturgeon), Polyodontus spathula (paddlefish), Lepisosteus platostomus (shortnose gar), and Amia calva (bowfin).

Liver carbamyl phosphate synthetase was present in all species examined and showed a range of 0.0084 ± 0.002 (P. spathula) to 0.0253 ± 0.008 (L. platostomus).


The effect of elevated water temperatures on the survival of young-of-the-year freshwater teleosts has been studied under laboratory conditions (Black, E. R., and R. H. Fish, Res. Rep. (4), 1953). In this study the effect of elevated water temperatures on young-of-the-year freshwater teleosts was examined under more natural river water conditions.

A total of seven different species were examined with emphasis on those species found in the main channel where river temperature fluctuations were moderate. The species included: Lepisosteus microchir, Dorosoma cepedianum, Xyrauchen texanus, Ictalurus carpio, Micropterus salmoides, Labeledus melas, and Splendidaeus gruninnae.

Although temperature tolerance varied from species to species, all species could withstand temperatures of at least 3 degrees C higher than ambient. The least tolerant species was L. microchir, while the most tolerant species was L. melas.


To determine the distribution of cellulose in the cell wall of members of the genera Ceratocystis and Botryotinia, a qualitative investigation of 47 species of the former and 4 of the latter was undertaken. Cell walls of each species were examined cytologically and using X-ray diffraction analysis. Evidence for the presence of cellulose in the cell walls was obtained in 31 of 47 species of Ceratocystis and in 4 species of Botryotinia, based on cytological and X-ray data.


Recessive lethal mutations in the X-linked region of the X chromosome were detected in 33 of 16,885 tested sperm by injecting 0.1 ml triethylene melamine (TEM) or ethyl methanesulfonate (EMS). The nature of mutations associated with each of the lethals was examined by complementation tests with the 13 lethals mapped in this region (Wigglesworth, and Kaufman, Genetics 71:139). All of the EMS-induced lethals were found to be lethal to single loci. One of these lethals was a double mutant, having a gene at the X1 locus and a second lethal in the non-adjacent X2 12 locus. Distribution of these lethals is in X 2, 8 in X 3, 4 in X 26, 9 in X 2, 26 each in X 7, 2 in X 7, and 1 each in X 10, X 12, X 5, X 5 and X 11. No lethals were detected in the X1 and X2 loci. Seven deletions were detected among the 31 TEM-induced lethals. Three of the deletions included at least 13 loci, a fourth spanned 7-15 loci wholly within the X2+31 region, and the remaining three were associated with loss of at least 5, 3 and 2 loci. Mutational changes associated with the remaining 26 lethals are confined to single loci. Distribution of these lethals is 12 in X 2, 5 in X 1, 3 in X 7, 2 each in X 10 and X 11, and 1 each in X 5 and X 6. (Supported by NSF research fund 101-165.)

Saigo, Dr. Roy, Mrs. Barbara Saigo, "Mountains, Sea Lure Students Across the West", The American Biology Teacher, April, 1973, pp. 196-204.

During a three-week intermin between the spring and summer semesters at the University of Wisconsin-Madison we conducted an upper-division, three-credit biology field course, which consisted of surveying the ecologic communities to be found along a transect of the United States from our campus to the Pacific Ocean at Newport, Oregon. The 23 students enrolled in the course were able to link our explanations and their readings to first-hand observations of plants, animals, topography, and climate across this broad western expanse of the continent. For many students it was their first trip west, not to mention their first sight of an ocean; so special attention was devoted to montane and marine ecosy-tem.

This paper tells how the trip was planned, describes some of its highlights, and assesses the experience in academic and personal terms.
polyethers are proposed as selective ligands for the post-transitional ions: Hg(II), Ag(I), Cd(II), and Pb(II). For these metal systems, no macrocyclic biological ligand analogs are known.

A broad range survey of macrocyclic polyethers containing all representative metal cations has been carried out by means of spectroscopic assay of picrate counteranion phase transfer with organic extractable macrocyclic complexes. Only Hg(II) and Ag(I) were observed to be selectively and extensively coordinated by the macrocyclic polyether ligands. Determination of complexation stoichiometry, conductivities of isolated coordination complexes and theoretical calculations of stereo parameters have defined the ideal constraints for maximum ligand-ion interaction. 5-gamma-penta-(1,7,13,19-tetraethylcyclotetradecane) is proposed to possess the ideal cyclic constraints for tetrahedral tetradeicate coordination of Hg(II). A displacement rather than addition type complex of tetrahedral type symmetry is proposed upon coordination of Hg(II) to 53/2 2 or Hg(NO)3/2.

Ochrynowycz, Dr. Leo, Dr. B. R. Borabacher, Dr. B. B. Cruz, "Macrocyclic Ligands in Ion Transport", Abstracts INOR-83, American Chemical Society, 166th National Meeting, Chicago, August 26-31, 1973.

Several neutral macrocyclic antibiotics and structurally related cyclic polyethers have been shown to induce ion transport across cell membranes. Reported kinetic studies on Na+ reacting with manacin and with dienzo-18-crown-6 show complexation rates which are at or near the diffusion limit thereby yielding little information regarding the reaction mechanisms or the source of selective transport behavior. The cyclic polyethers resemble the ionophoric antibiotics and crown ethers in many respects with the notable contrast that soft acids, rather than hard acids, are preferred electrophilic species. Using methanol-water solvents to effect ligand solubility, we have studied the kinetics of Cu(II) ion reacting with the test ligand. The formation rate constant, extrapolated to aqueous solution, is 10^10 below the diffusion limit and the large dissociation rate constant is very sensitive to solvent and salt effects. The importance of these observations to membrane transport phenomena is discussed. Evidence for the utility of these ligands as purging agents of metal ions from living systems is also presented.


The reaction of Ru(NH3)6^2+ with oxygen takes place quantitatively according to the stoichiometry: 2Ru(NH3)6^2+ + O2 <-> 2Ru(NH3)6^3+ + H2O2. The rate law over a wide range of Ru(II), O2, and H2O concentrations (1.00 M H+ to pH 6.05) has the form d[O2]/dt = k [Ru(II)][O2]. At 25°C and = 1.00 maintained with LiClO4, k = 1.26 x 10^7 M^-1 sec^-1. With Ru(en)3^2+ as the reducing agent, the first stage involving oxidation to Ru(en)3^3+ takes place rapidly enough so that this stage can be studied with initially no complication caused by oxidation of the ligand. If published values of E0 for the Ru(II)-Ru(II) and O2- O2 couples are correct, we conclude that the reaction does not involve intermediate. The oxidation of Ru(NH3)6^3+ by H2O2 is a very slow reaction, and under the optimum conditions we were able to realize, we were dealing with not with the intrinsic reaction but with a path involving catalysis by iron salts. The specific rate for the oxidation of Ru(NH3)6^3+ by O2 is at least 10^4 times greater than for the oxidation by H2O2.

An evaluation of the performance of and attitudes toward the beginning course in economics at three midwestern collegiate institutions is investigated in this study. Pre and post examinations, attitude tests, and questionnaire analyses were administered to thirty-one sections of Economic Principles (macro) during the fall semester of 1971-72. The results are subjected to multiple linear regression using both post examination and post attitude scores as independent variables with twelve predictor variables. Specific research questions addressed focus on the relationship between learning economics and student attitudes toward economics, the relationship of quality of instruction with both learning and attitude, and interinstitutional differences in learning and attitude as regards economics. It was discovered that (1) learning economics is closely associated with student attitude toward economics, (2) instructional quality as perceived by students is closely related with student attitude toward economics, and (3) there is little difference in student performance and attitude scores between institutions but the kind of institutions attended by students appears to affect their performance. Recommendations include a recognition that instructional quality in the beginning course in economics is of strong importance, and that instructors should make purposeful attempts to improve the attitude dimension of the learning process.


The importance of this study was to show that the instructor of economic principles is an important participant in the process of learning economics. Purposeful attempts by the instructor to influence student attitudes are sometimes considered to take place at the expense of subject matter. From the results of the study, the design and the content of the principles course creates an atmosphere of promoting positive attitudes toward economics and should be a major priority in course objectives. The study states that good instruction as perceived by students is a crucial variable in promoting these objectives.


PAK includes complete guide and all necessary manipulatives, forms, and devices. It is a broad spectrum, for individual diagnosis—not for group use, and with norms provided.


Explores the advantages and one mode of organizing an individualized program in elementary grades. Based upon over 10 years of active research.


This study was concerned with comparing the "theoretical" role of the IGE/MUS-E principal as indicated in IGE/MUS-E print and audiovisual materials with the "practicing" role as perceived by principals in their second or more years in that role. Comparisons between the "theoretical" and "practicing" roles were made on the basis of principals' responses to activities peculiar to the role of the IGE/MUS-E principal.


This paper is intended to help the practicing teacher develop procedures and materials to implement instructional programming. The body of the paper deals with the background to instructional programming along with a model for implementing it and explanations of the sections of the model. Appendix A contains relevant reference materials. Appendix B features selected sections from a unit on environment education developed by four elementary teachers--Clara Dunn, Jacqueline Hoffman, Virginia Krieger and Florence Schroeder--according to the model presented in the body of the paper.


PAK includes complete guide and all necessary manipulatives, forms, and devices. It is a broad spectrum, for individual diagnosis—not for group use, and with norms provided.


Explores the advantages and one mode of organizing an individualized program in elementary grades. Based upon over 10 years of active research.


This study was concerned with comparing the "theoretical" role of the IGE/MUS-E principal as indicated in IGE/MUS-E print and audiovisual materials with the "practicing" role as perceived by principals in their second or more years in that role. Comparisons between the "theoretical" and "practicing" roles were made on the basis of principals' responses to activities peculiar to the role of the IGE/MUS-E principal.


This paper is intended to help the practicing teacher develop procedures and materials to implement instructional programming. The body of the paper deals with the background to instructional programming along with a model for implementing it and explanations of the sections of the model. Appendix A contains relevant reference materials. Appendix B features selected sections from a unit on environment education developed by four elementary teachers--Clara Dunn, Jacqueline Hoffman, Virginia Krieger and Florence Schroeder--according to the model presented in the body of the paper.


PAK includes complete guide and all necessary manipulatives, forms, and devices. It is a broad spectrum, for individual diagnosis—not for group use, and with norms provided.


Explores the advantages and one mode of organizing an individualized program in elementary grades. Based upon over 10 years of active research.


This study was concerned with comparing the "theoretical" role of the IGE/MUS-E principal as indicated in IGE/MUS-E print and audiovisual materials with the "practicing" role as perceived by principals in their second or more years in that role. Comparisons between the "theoretical" and "practicing" roles were made on the basis of principals' responses to activities peculiar to the role of the IGE/MUS-E principal.


This paper is intended to help the practicing teacher develop procedures and materials to implement instructional programming. The body of the paper deals with the background to instructional programming along with a model for implementing it and explanations of the sections of the model. Appendix A contains relevant reference materials. Appendix B features selected sections from a unit on environment education developed by four elementary teachers--Clara Dunn, Jacqueline Hoffman, Virginia Krieger and Florence Schroeder--according to the model presented in the body of the paper.
The article was based on two assumptions: 1. that interviewing as a fact-finding technique for journalists is sorely neglected in the college journalism classroom; and 2. that videotaping devices may be highly effective tools for teaching the complex skill of interviewing. The article reports on the early experimental stages and ultimate successes of the authors, who collaborated in the development of an interviewing unit—employing VTR equipment—within the news writing syllabus.

DEPARTMENT OF LIBRARY SCIENCE
Liaison: U. Emery


This article is a review of pertinent research which indicates the direction being taken in content analysis of children’s books. Although only a limited amount of research has been done on content in children’s books, content analysis has provided concrete information about various aspects of content in children’s books; and there are indications that recent and ongoing research will provide information about an increasing variety of subjects. The majority of the studies described in this review can be grouped into one of three subject areas: studies of human relationships depicted in books, studies of values and cultural content incorporated into books, and studies concerned with the portrayal of specific racial and ethnic groups in books.

DEPARTMENT OF MATHEMATICS
Liaison: Dr. J. Teeters


This is a review of a book designed to provide guidance in a method of teaching elementary school arithmetic. This method is the use of a set of devices known as the Stern apparatus. It is the general conclusion of the reviewer that the Stern apparatus should receive more consideration as an approach to teaching elementary school arithmetic and this book would certainly be a helpful guide to the utilization of this apparatus.


A description of the output characteristics and process characteristics of an exemplary mathematics program for the schools of the state, grades kindergarten through eight, together with a listing in prerequisite and sequential order of a hierarchy of mathematics content objectives for grades K-8.


Each of the sections of this guide is designed to meet specific objectives. All sections represent definite statements which can serve as a sound foundation for further study and investigation. The main section of this guide has been devoted to a careful development of major concepts and associated behavioral objectives. In addition, other sections have been devoted to issues concerning the effective teaching of mathematics.
of his physiological response during the musical excerpts. The subject also indicated on a questionnaire whether he felt more stimulated or more relaxed by each selection. Analysis by Chi square of the results indicated that both GSR and questionnaire responses were significantly different from the stimulating and sedative responses that would be expected from previous categorizations of the ten compositions.

DEPARTMENT OF OFFICE ADMINISTRATION

Korn, Dr. Willard, John Laub, Curricular Study of the Two-Year Associate Degree Programs for Data Processing in the State of Wisconsin, Distributed through the State Office for Vocational Education.

The project was a complete study of two-year data processing programs in the state of Wisconsin. A model program was developed as a guideline to Vocational Schools and this model curriculum was disseminated to Vocational Advisory Boards throughout the United States.


The college class in business communications must include a wide variety of activities. Written communications involve business reports, memorandums, and letters of request, response, credit, collection, adjustment, and sales. Extensive work should be done on the job. Each student can complete a review of a good data sheet, application letter, interview, and follow-up information. Oral communications are emphasized to include a short talk, the introduction of speakers, parliamentary procedure, and composition of letters at a dictation-transcription machine. Special units are taught on telephone technique and how to be a good listener. The final project is the Business simulation project which incorporates all facets of communications presented throughout the course.

Mitchell, Dr. William, Career Oriented Shorthand Cassettes-Educational Correspondence, Chippewa, Wis.: Business Education Media Corp., 1973, 10 cassettes (15 minutes per side) plus scripts—75 pp.

The Career Oriented Shorthand Cassettes on Educational Correspondence are used for building skill in shorthand. The terminology found in the dictation material would be typical of what one would find at a secretary in an educational institution. In addition to the ten cassettes, which include fifteen minutes of dictation on each side of the cassette, there are accompanying scripts. These scripts can be utilized by the classroom teacher for dictation purposes using her/his own voice or for checking student transcripts. The cassette materials sell for $125.


This text emphasizes a unique filing system that can be incorporated into almost any type of business. The system is called Simplex Numeric. Storage and retrieval time are reduced by more than half when using this system. In addition to describing the Simplex Numeric Filing System, the text includes a review of storage equipment and how to make better utilization of active storage space. The text also includes a chapter describing the changeover from one type of existing system to the Simplex Numeric System. The text sells for $15.

This article gave techniques to business education teachers seeking employment.

DEPARTMENT OF PSYCHOLOGY
Liaison: K. McIntire


The hypothesis that attitude polarization following group interaction is brought about by increased commitment to social norms was examined in three-person groups discussing issues of education. In line with the normative value hypothesis, it was found that following discussion: (a) groups having an average pronormative, prediscussion attitude became more norm-congruent in stated opinion; (b) on the average, individuals came to personally accept an attitude that was more in line with reference group majority opinion; and (c) majority/minority structure of the group had no significant effect on degree or direction of attitude change. These results supported the general hypothesis of the polarization phenomenon by demonstrating the occurrence of discussion-mediated attitude radicalization under conditions of accurate norm perception. Further, they suggested the importance of specifying the nature of reference group opinion in predicting direction of discussion-mediated change.

Baumgardner, Dr. Steve, Leon Rapoport, "Student Career Decisions: The Limits of Rationality", Paper read at Southwestern Psychological Association Meeting, April, 1973, Dallas, Texas.

The purpose of the present work was to investigate different modes of cognitive functioning revealed in students' choice of a college major. Career orientation was conceptualized as reflecting an analytic-intuitive dimension. For operational purposes analytic thinking was defined as publicly verifiable and well-defined (and often quantified) premises leading to logical-rational conclusions. Intuitive thinking was defined as emotional involvement and global impressions which formed the basis for justification and selection of a major. The analytic-intuitive dimension was operationalized by 36 statements developed through interview protocols, intercorrelation, factor analysis and Thurstone-type scaling techniques. Analysis of responses of 600 undergraduates and of those of the normal levels and a variety of fields of studies suggested that student career decisions can be fruitfully conceptualized and assessed as reflecting a continuum of cognitive functioning ranging from analytic to intuitive. Not only do students reveal different cognitive modes according to sex, age, and study and number of majors, but shifts in thinking appear mediated by generalized college experiences. Results show that student career aspirations are not necessarily fulfilled by making maximally rational choices.


In 1963 a method was published for the analysis of word frequencies in spontaneous (story-telling) spoken language. The immediate purpose was to provide a means for computer analysis and part-of-speech usage in a study of linguistically impaired aphasic patients. A dictionary of most frequently used words in response to a 20-card administration of the Thematic Apperception Test based on the verbal output of 12 subjects was compiled. The present paper is a revision of the dictionary based on 54 adults. An alphabetical listing of the words in the new directory with part-of-speech identification of each word is included.


Three groups of 11-year-old children institutionalized and non-institutionalized retarded and normals, were compared in their language usage on responses to TAT cards. The distribution of their words into common and uncommon, and over the part of speech categories was analysed, as well as the complexity and diversity of their sentences, verb and noun phrases. Retarded children did not differ from normal children in their usage of common and uncommon words, nor in their use of part of speech categories. Also, their verb phrases and noun phrases were in most respects comparable to those used by normal children. The clearest differences were found in the measures of sentence complexity and diversity: institutionalized retarded received the lowest scores of the three groups on these measures (significantly lower than the scores of the normal children), the scores of the non-institutionalized retards were intermediate and those of the normal children the highest. Additional comparisons of the patterns of scores with those received by younger children showed that the institutionalized retarded were most comparable to normal 3-year olds, particularly in their sentence usage, whereas the non-institutionalized retarded were more comparable to normal children of the same chronological age.


This is a review and summary of an eleven-year longitudinal study of the correlates and development of delinquency, social behaviour, and school achievement of children who were first identified in 1961. In grades three, six, and nine as displaying consistent pro-social or aggressive-disruptive behaviour in school, their early behaviour in school was found to be highly predictive of later delinquencies, underachievement, social adjustment problems, and many related difficulties.

DEPARTMENT OF SOCIOLOGY
Liaison: M. Utzch


An attempt is made to formulate three models of departmental organization from the perspectives of faculty in a particular department. The three models or types are: the "leadership" model, the "organization" model, and the "group" model. These alternative structures are clarified by contrasting them on a series of universal issues.

This book was selected for review in the Wisconsin Sociologist as the work of a highly productive sociologist in the state at the present time. Attention was given to the theoretical perspective, the roles of the sociologist as scientist and as expert, and the author's analysis of major issues in the health field.


A study of the folktales of Micronesia, relating them to their cultural setting, to their geographical occurrence, and to the ethnographic literature of the contact period.


Comparative research into the causes and consequences of variation in community power structure has been hampered by the absence of a reliable objective indicator of power concentration. In an earlier work, Arno Hawley suggested that the "MPO ratio" (the proportion of the labor force classified by the U.S. Census as Managers, Officials and Proprietors), could be used as an index of power concentration in a community. The lower the MPO ratio, the more concentrated the power. This hypothesis is tested by computing MPO ratios for three groups of communities whose power structures had been previously studied by the reputation or decisional methods. The results show that MPO ratios are larger in communities with concentrated power structures, directly contrary to Hawley's prediction. This may be due to the MPO's relationship to community stratification and type of political organization. The amount of variation in power concentration "explained" by variation in MPO ratios leads to the conclusion that it is not a valid indicator of relative power distribution.

DEPARTMENT OF SPEECH
Liaison: W. McDonnell


A comprehensive study of the professional work of film costume designer Edith Head complete with her film credits, her philosophy of design, short biography, and analysis of her academy award designs.


Chamber Theatre is a method of preparing and presenting unframed fiction on the stage, as it is originally written, with changes only to accomodate the limitations of time, physical stage set up, or number of actors. The uniqueness of Chamber Theatre, though, lies in having the narrator become dramatically involved, in having him be a spokesman for the author, in having him be a controlling factor in representing the author's point of view.

The description of 'The Boarding House' by James Joyce details the devices employed in our Chamber Theatre adaptation and production at the University of Wisconsin—Eau Claire in 1971. The narrator serves not only as a storyteller, but functioned also at times as stage manager, director, and a minor character in the story. The staging employed the trompe l'oeil device of a play within a play to provide motivation for the exposition and to prepare the audience for the narrator-character role the performers were to assume throughout.


Ratings were obtained from experienced listeners regarding adequacy of pitch, loudness, and sound quality of recorded speech produced by the Western Electric Artificial Larynx, by a pneumatic speech aid manufactured in Japan, and by an esophageal speaker. Results indicated that the esophageal voice is in some respects superior to other modes of alaryngeal voice production, with the speech aid ranked second and the artificial larynx last. The speech aid ranked first in terms of voice quality. However, none of the pitch, loudness, or quality differences was statistically significant.


Male patient with a history of unilateral vocal fold paralysis and his subsequent rehabilitation through teflon injection and voice therapy is discussed. Spectral analysis of pre- and postoperative tape recordings of the patient's voice substantiated perceived improvements in his phonation after phonosurgery.


Utilizing the methodology of content analysis, Richard M. Nixon's three presidential acceptance speeches were analyzed and compared with those which had preceded. Analysis established striking similarities in the twenty-two speeches. This paper reveals the presidential acceptance speech as a rhetorical model.


This association had many requests for such a bibliography. Professor Mattin of the University of Massachusetts chose me to compile this material. All members were consulted in the membership of the entire American Forensics Association. W. Bowk Ayl of the University of Oregon, head of the association division doing the public address bibliography, held joint meetings with me and other committee members in New York. The bibliography was then taken to our divisions and approved. The ERIC Clearinghouse on Reading and Communication Skills has been given permission to abstract and produce the document (in agreement with USHEW also).
NON-DEPARTMENTAL


In a review of methodology in selecting roommates, it appears that the philosophy of a given university's housing program must be established prior to any attempt to match roommates.

Several studies were reviewed in searching for successful means of matching roommates. The conclusion drawn seems to be, "once the philosophy was established, then the housing office could match roommates according to the purpose for existing. If the goal for having roommates was to maximize friendship formation, then a different set of need patterns, "those that facilitate friendship formation" must be used. However, if a stated philosophy of the residence hall was to facilitate growth, then roommate satisfaction might be simply a report of lack of conflict when in fact a more conflictual relationship might be more growth promoting." If the goal for housing students is compatibility, then the system of needs should be considered. If the goal is growth, then students should be matched according to opposite values. "One possibility is that conflict around values may tend to be more useful than conflict around needs and that optimum growth and health can be achieved by matching roommates to be compatible on needs but different on values."