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

DEPARTMENT

CURRENT PROJECTS, PROGRAMS AND RESEARCH ........................................ 58574.01
Allied Health .................................................. 58574.01
Art .............................................................. 58574.01
Biology .......................................................... back of 58574.01
Business Administration ....................................... back of 58574.02
Chemistry ....................................................... back of 58574.02
Computer Science .............................................. back of 58574.03
Communicative Disorders ..................................... back of 58574.03
Economics ........................................................ back of 58574.03
Elementary Education ......................................... back of 58574.03
English .......................................................... 58574.04
Foreign Languages ............................................. back of 58574.04
Geography ....................................................... back of 58574.04
History .......................................................... back of 58574.04
Journalism ....................................................... back of 58574.04
Libraries .......................................................... 58574.05
Mathematics ..................................................... 58574.05
Maternal and Child Health Nursing ............................. 58574.05
Music ........................................................... 58574.05
Office Administration and Business Education ............. back of 58574.06
Philosophy ........................................................ 58574.07
Physical Education ............................................. 58574.07
Physics ............................................................ 58574.07
Political Science ............................................... back of 58574.07
Psychology ....................................................... back of 58574.07
Sociology ........................................................ back of 58574.07
Special Education ............................................... back of 58574.07
Speech ............................................................ 58574.08
Transitional Year Program ..................................... back of 58574.08
Non-Departmental Faculty ..................................... back of 58574.08

FACULTY PUBLICATIONS ............................................. 58574.51
Allied Health ................................................... 58574.51
Art ............................................................... 58574.51
Biology ............................................................ 58574.51
Business Administration ....................................... back of 58574.51
Chemistry ........................................................ back of 58574.51
Communicative Disorders ..................................... back of 58574.52
Elementary Education ......................................... back of 58574.52
English .......................................................... back of 58574.52
Foreign Languages ............................................. 58574.53
Geography ....................................................... 58574.53
History ........................................................... 58574.53
Journalism ....................................................... 58574.53
Libraries .......................................................... 58574.53
Library Science ................................................ back of 58574.53
Mathematics ..................................................... back of 58574.53
Medical-Surgical Nursing ..................................... back of 58574.53
Music ........................................................... back of 58574.53
# TABLE OF CONTENTS (continued)

<table>
<thead>
<tr>
<th>DEPARTMENT</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Administration and Business Education</td>
<td>back of 58574.53</td>
</tr>
<tr>
<td>Philosophy</td>
<td>58574.54</td>
</tr>
<tr>
<td>Physics</td>
<td>58574.54</td>
</tr>
<tr>
<td>Psychiatric Nursing</td>
<td>58574.54</td>
</tr>
<tr>
<td>Psychology</td>
<td>58574.54</td>
</tr>
<tr>
<td>Sociology</td>
<td>back of 58574.54</td>
</tr>
<tr>
<td>Transitional Year Program</td>
<td>back of 58574.54</td>
</tr>
<tr>
<td>Non-Departmental Faculty</td>
<td>back of 58574.54</td>
</tr>
</tbody>
</table>
4. Thesis Research

Klun, Dr. Carol COLLABORATOR: Dr. John Whooley
isolation of Anaerobic Bacteria in the Medical Laboratory -- A Self-Instructional Program

FUNDING: None, other than personal

STATUS: Complete

The central problem of this study was the designing of a self-instructional program covering the isolation of anaerobic bacteria in the medical laboratory. The purposes of the study relative to this problem were:
1. to increase rates of isolation of anaerobic bacteria, and
2. to provide a usable example of how other areas of the medical laboratory, such as biochemistry, hematology and blood bank can be individualized.

SUPERVISED STUDENT: Warren Fredrick Rhyner, Jr.

The Development of Self-Instructional Units for Teaching Identification of Electronic Components, Schematic Diagram Reading, Electronic Component Location, Typical Ohmmeter Applications and Typical Voltmeter Applications.

FUNDING: None, other than personal

STATUS: Complete

The purpose of this project was to prepare self-instructional materials for teaching identification of electronic components, schematic diagram reading, electronic component location, typical ohmmeter applications, and typical voltmeter applications. The materials were intended to be incorporated into the instrumentation courses taught at the University of Wisconsin - Eau Claire. In addition to alleviating the burden on the instructor, these materials would allow each student to pace himself and repeat the topics as often as needed for mastery.

COLLABORATOR: Dr. John Whooley
SUPERVISED STUDENT: Sr. Margaret Jackson

Acid-Base Balance As Applied to Laboratory Testing -- A Self-Instructional Program

FUNDING: None, other than personal

STATUS: Complete

The author has designed an individualized self-instructional program on acid-base balance for the field of medical technology. The program includes behavioral objectives, printed and audiovisual learning materials, learning activities, sets of test questions, and grading criteria. It was field-tested with three groups of senior medical technology students who successfully completed the objectives of the program. It was also used for inservice education with a group of medical technologists currently employed in a hospital laboratory. These groups responded favorably and in addition critically evaluated the program. This enabled the author to modify the program and present it in its final form. The resulting program is a useful educational product on acid-base balance for the field of medical technology.

SUPERVISED STUDENT: Sr. Asymunda Daniewicz

Cost Methodology in the Bacteriology Department of Clinical Laboratory

FUNDING: None, other than personal

STATUS: Complete

This study makes a comparative analysis of two cost methodologies, the Relative Unit Value method and the Sequential Allocation Approach method. At present, there is a scarcity of references to analyses of costs in the Clinical Laboratory.

DEPARTMENT OF ART

Liaison: Miss G. Grimm

1. Research and Investigation

Campbell, Kenneth
Ethnography of Nigerian Tribal Sculpture and Style

FUNDING: None, other than personal

STATUS: In Progress

Lawler, John COLLABORATORS: Advanced Design Students in Advertising
Complete Reorganization and Design of the New City-owned Transit System in Eau Claire including Buses, Maps, Schedules, Shelters, Pathfinder signs and the Advertising for the System in Newspapers and on TV

FUNDING: Federal; State; Municipal (city of Eau Claire)

STATUS: In Progress

McCoy, Dr. Paull
A Multi-Dimensional Survey of Student and Educator Feelings about Self in Specific Life Contexts

FUNDING: None, other than personal

STATUS: In Progress

2. Artistic Production, Showing, or Recital

Campbell, Charles
Ongoing Exploration of Objective (Figurative) and Non-objective Combinations in Drawing and Painting

FUNDING: None, other than personal

STATUS: In Progress

Fish, Edward
Seven Panel (Wood Block-Cut) Depicting the Seven Arts

FUNDING: University Research Grant

STATUS: In Progress

One-Man Show-Hibbard Humanities Building

FUNDING: None, other than personal

STATUS: In Progress

Eight Bonnar Commission for Trinity Lutheran Church

FUNDING: None, other than personal

STATUS: In Progress

Grimm, Gretchen
Artistic Production, Showing, or Recital

FUNDING: None, other than personal

STATUS: In Constant Progress
Joslin, Richard
Artistic Production, Showing or Recital
FUNDING: None, other than personal
STATUS: In Progress

Katsulis, Stephen
Continuing Production: Painting, Exploration of Juxtaposition of Styles and Images and Techniques
FUNDING: None, other than personal
STATUS: In Progress

Lawler, John
Production and Showing of Sculpture Design and Production of Advertising
FUNDING: None, other than personal
STATUS: In Progress

DEPARTMENT OF BIOLOGY
Liaison: Dr. B. Snudden

1. Research and Investigation
Balding, Dr. Terry COLLABORATOR: Dr. Oliver Own
Life History of the Blue Jay (Cyanocitta cristata)
FUNDING: None, other than personal
STATUS: In Progress

Barnes, Dr. William
Soil-vegetation relationships in presettlement Eau Claire County
FUNDING: None, other than personal
STATUS: In Progress

Crowe, Dr. David SUPERVISED STUDENT: Dennis Panicucci
Survey of Physical and Biological Properties of a Freshwater Stream
FUNDING: None, other than personal
STATUS: In Progress

Cevancara, Dr. Victor SUPERVISED STUDENT: Roger Anderson
Partial Purification and Characterization of Potato Tuber Phenylalanine Ammonia Lyase and Its Proteinaceous Inactivator Using Polyacrylamide Gel
FUNDING: Departmental
STATUS: Complete
Project used Acrylamide Gel Techniques to isolate the active phenylalanine ammonia lyase. Results were presented by Roger Anderson and the 1974 Wisconsin Academy of Science Arts and Letters Spring meeting in Green Bay, Wisconsin.

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

Ho, Dr. Yal Tim
Genetic Improvement by combining superior, dominant alleles from different populations in a naturally cross-fertilizing species
FUNDING: University Research Grant
STATUS: In Progress

Jewell, Dr. Thomas
Fungal Pathogens of Freshwater Fish
FUNDING: University Research Grant
STATUS: In Progress

1. Research and Investigation
Lim, Dr. John K. COLLABORATOR: Mr. Liu, Chih-Ping
Complementation Analysis of Methyl Methanesulfonate-Induced Recessive Lethals in the X Chromosome of Drosophila melanogaster
FUNDING: University Research Grant
STATUS: Complete
Recessive lethal mutations in the 3AL to 3C2 region of the X chromosome were detected in 113 of 33,544 sperm treated by feeding 5mM methyl methanesulfonate in 1% sucrose for 22 hours. 7 of the 113 were sterile, leaving 106 stocks for analysis by complementation tests. With only one exception, these mutants were found to be lesions restricted to single loci. Distribution of these single-site mutations is 1 in rt, 2 in tko, 18 in zw-8, 6 in zw-6, 3 in zw-10, 3 in zw-13, 21 in zw-7, 7 in zw-5, 5 in zw-6, 6 in zw-12, 1 in zw-7, 12 in zw-3, 5 in zw-11, and 3 in zw-9. One of the lethals, mg9, was non-complementary to two adjacent loci, zw-2 and zw-3, indicating possible deletion encompassing two loci. The results indicate that there are at least 15 recessive lethal loci in the region and are consistent with the hypothesis of Lim and Snyder (Mutation Res. 6: 129-137) that inability of monofunctional alkylating chemicals to induce deletion-associated mutations is a characteristic of the compounds. (Supported by UW-EC Research Fund 102-155.)

COLLABORATOR: Dr. Leon A. Snyder
Cyto genetic and Complementation Analyses of Recessive Lethal Mutations Induced in the X Chromosome of Drosophila by Three Alkylating Agents
FUNDING: University Research Grant
STATUS: Complete
Salivary-gland chromosomes of 54 methyl methanesulfonate- and 50 triethylene melamine-induced X-chromosome recessive lethals in Drosophila melanogaster were analysed. Two of the lethals induced by the monofunctional agent and 11 of those induced by the polyfunctional agent were found to be associated with detectable aberrations. A complementation analysis was also done on 82 ethyl methanesulfonate- and 34 triethylene melamine-induced recessive lethals in the vesta-white region of the X-chromosome. The EMS-induced lethals were found to represent lesions affecting only single cistrons. Each of the 14 cistrons in the region known to mutate to a lethal state was represented by mutant alleles, but in widely different frequencies. 7 of the TEM-induced lethals were associated with deletions, only one of which had both breakpoints within the mapped region. Twenty-six of the 27 mutations in which only single cistrons were affected were mapped to 7 of the 14 known loci. One TEM and two EMS-induced mutations were alleles representing a previously undetected locus in the vesta-white region.

COLLABORATOR: Hagen, Erik
Mutagenic Effects of Aziridine Alkylating Chemicals in Drosophila
FUNDING: University Research Grant
STATUS: In Progress

COLLABORATOR: Doncyk, John
High Resolution Genetic Analysis of Interloci Region in Drosophila
FUNDING: University Research Grant
STATUS: In Progress
Snudden, Dr. Birdell  
COLLABORATOR: Ochrymowycz, Dr. Leo  
SUPERVISED STUDENT: Ng, Clement  
The Effects of Copper Ion Concentration on the  
Generation of methane from Sewage Sludge  

FUNDING: Other  
STATUS: Complete  
The investigations included laboratory experiments  
to determine the amount of copper needed to reduce  
the generation of methane in a small laboratory  
digester. These experiments have shown that  
copper concentrations in excess of 150 mg/liter  
were necessary to cause a decrease in methane  
production.

Major Student Research

Balding, Dr. Terry  
SUPERVISED STUDENT: Kathy Sellheimer  
The Distribution of Crayfish in Clear Lake Wisconsin  

FUNDING: None, other than personal  
STATUS: In Progress  

SUPERVISED STUDENT: David Foder  
Winter Survey of Fishes of the Headwaters of Beaver  
Creek

FUNDING: None, other than personal  
STATUS: In Progress  

SUPERVISED STUDENT: Jim Bartlett  
Movements of the Walleye (Stizostedion vitreum)

FUNDING: None, other than personal  
STATUS: In Progress  

Evancare, Dr. Victor  
SUPERVISED STUDENT: Wei Mei Huang  
A comparison of alkaline phosphates isoenzyma patterns  
in various tissues of Large Mouth Bass (Micropterus  
salmoides) by dic electrophoresis  

FUNDING: University Research Grant  
STATUS: Complete  
Assay methods and techniques were developed for the  
electrophoresis and staining of proteins from bass  
gill, liver and muscle tissue. Results were not pub- 
lished.

Fey, Dr. Marcus  
SUPERVISED STUDENT: Somer, Richard  
The Flora of Selected Habitats of Northeastern Portage  
County  

FUNDING: None, other than personal  
STATUS: Complete  
Areas of Portage County in which previous botanical  
investigations were minimal were selected for an  
tensive taxonomic and ecological study. Vascular  
plants growing in these areas were collected, identifi- 
ed and information concerning the distribution  
of these plants in various ecological habitats is  
presented.

SUPERVISED STUDENT: Donald Koski  
Plants Communities of Wood County  

FUNDING: None, other than personal  
STATUS: Complete  
A taxonomic and ecological study of the flora of  
Wood County, Wisconsin was performed. The study  
was primarily a field investigation. An annotated  
catalog of vascular plants was compiled, providing  
the location, habitat, and frequency of occurrence  
for each species represented in the study.

SUPERVISED STUDENT: Verdun Cecel  
Vascular Flora and Plant Communities of the Winter  
Lakes Region  

FUNDING: None, other than personal  
STATUS: Complete  
The flora of the Winter Lakes Region, Sawyer County  
Wisconsin, was studied by the investigator for five  
years. The occurrence, frequency, and distribution  
of species of vascular plants growing there was  
determined. An annotated catalog of families,  
genera, and species was written, and the species  
composition of plant communities represented in  
the area was determined and compiled.

SUPERVISED STUDENT: Robert Tomesh  
The Flora and Plant Communities of the Eau Claire  
River Area  

FUNDING: None, other than personal  
STATUS: Complete  
Species of vascular plants growing in the Eau Claire  
River Valley were collected and identified. The  
Frequency of occurrence, and distribution of these  
species within various ecological habitats, was de- 
termined.

SUPERVISED STUDENT: Robert Matson  
The Flora and Plant Communities of an area in Rusk  
County Designated for a Copper Mining Operation  

FUNDING: None, other than personal  
STATUS: Complete  
The investigator studied, collected, and identified  
the various species of vascular plants occurring  
naturally within the proposed site for a copper  
mine in Rusk County. The ecological habitats  
within the area were identified, and the distribution  
of species within these habitats was determined.

Foote, Dr. K.  
SUPERVISED STUDENT: Marlene Miller  
A Comprehensive Look at the Science Curriculum in  
the Marshfield, Wisconsin Public School System  

FUNDING: None, other than personal  
STATUS: In Progress  

SUPERVISED STUDENT: Susan Nagle  
Environmental Science -- High School Curriculum Study  

FUNDING: None, other than personal  
STATUS: In Progress  

SUPERVISED STUDENT: Walter Plotrowski  
Plants and Animals of Wisconsin -- A Biological  
Science Curriculum  

FUNDING: None, other than personal  
STATUS: Complete  
"Plants and Animals of Wisconsin" is a High School  
Biology course designed for low achieving, low  
ability, and reluctant learners. This study includes  
course and unit objectives as well as daily lesson  
plans and unit quizzes which are correlated with  
the unit objectives. A complete curriculum study  
which any biology teacher could use as the basis for  
teaching this course.

SUPERVISED STUDENT: Carl Kopp  
The Bryophytes and Lichens of Devil's Island  
and North Twin Island of The Apostle Islands National  
Lakeshore  

FUNDING: None, other than personal  
STATUS: In Progress  

Lim, Dr. Jhoong  
SUPERVISED STUDENT: Patricia Gomez  
The Anatomy and Function of the Distal Region  
of the X chromosome of Drosophila melanogaster  

FUNDING: University Research Grant; Departmental  
STATUS: In Progress
Woodruff, Dr. John  
SUPervised student: Efflinga Udosen  
Isotopic Techniques in Separating Plant metabolites  
Funding: Departmental  
Status: In progress

SUPERVISeD student: Jarroll H. Stoflet  
Sound vibration and seed germination  
Funding: Departmental  
Status: In progress

SUPERVISeD student: Larry Hunter  
Carbon-14 labeling of compounds produced by wheat following the break of cold-hardiness  
Funding: Departmental  
Status: In progress

It is shown that the optimal solution to bank asset models is potentially sensitive to the discrete discrete distribution used to approximate a continuous probability distribution. A procedure is developed to determine the degree of sensitivity to the approximation. A technique is also developed which reduces the computational requirements from that of the conventional here-and-now approach and which also provides better information to bank management.

Lorenz, Dr. Richard  
An investigation and analysis of the disposition of appeals on file at the division of insurance, State of Colorado  
Funding: None, other than personal  
Status: Complete

DEPARTMENT OF CHEMISTRY  
Liaison: Dr. F. Krause

1. Research and Investigation

Chenier, Dr. Phillip  
SUPervised student: David Golombeskf  
"4-Substituted Nortricyclines: Synthesis and Anti-viral Activity against influenza"  
Funding: Departmental; Foundation  
Status: In Progress

Donio, Dr. Allen  
Molecular weight determinations by vapor pressure chemistry  
Funding: Departmental  
Status: In Progress

Gleiter, Dr. Melvin  
An investigation into the natural radiation background of the Eau Claire area  
Funding: Departmental  
Status: In Progress

Marsh, Dr. Charles  
Collaborator: Carlene Campbell  
Nucleation of calcification by hard tissue collagen  
Funding: Federal  
Status: In Progress  
Collaborator: Jame Lamovec  
The function of the collagen-bound carbohydrate of bone  
Funding: University Research Grant  
Status: In Progress

Nelson, Dr. Dean  
Supervised student: David Miller  
Crystal growth in various gel media  
Funding: Departmental  
Status: In Progress

Ochrynowycz, Dr. Leo  
Collaborator: Dr. Davids, Borabacher  
Pharmacological and physical studies of macrocyclic ligands - directed toward copper and mercury intoxication  
Funding: Federal  
Status: In Progress  
Collaborator: Gregor Jarek  
Supervised student: Richard L. Brown  
Pharmacological radioassay of Hg(II) under S, pentano treatment of BAL-J mice  
Funding: University Research Grant; Federal  
Status: Complete

Methodology for assay of Hg(II) cross-brain membrane transport was developed. An inbred strain of BAL-J mice was treated with the new chemotherapeutic S, pentano macrocyclic polyether. Test and control placebo groups were evaluated for total body burden purging and organ redistribution of

Dissertation Research

Gunderson, Harvey S.  
A policy model for technology implementation in the forest products industry  
Funding: None, other than personal  
Status: In progress

An analysis of box-Jenkins forecast errors on production costs  
Funding: None, other than personal  
Status: In progress

Steele, Dr. David  
Bankruptcy proceeding: three real estate title examinations  
Funding: None, other than personal  
Status: Complete

Researching federal bankruptcy laws and state and federal real estate law, & application of research to specific fact situations.

Dissertation Research

Gunderson, Harvey S.  
Continuous and discrete probability distribution in two-stage programming of bank assets  
Funding: None, other than personal  
Status: Complete

DEPARTMENT OF BUSINESS ADMINISTRATION  
Liaison: Dr. D. Well

1. Research and Investigation

Decker, Dr. Ronald  
Collaborators: Dr. D. Wallace Wall, Dr. J. Brady Faust  
Title: "Recreation Education"  
Funding: Federal  
Status: In progress

Gunderson, Harvey S.  
A policy model for technology implementation in the forest products industry  
Funding: None, other than personal  
Status: In progress

An analysis of Box-Jenkins forecast errors on production costs  
Funding: None, other than personal  
Status: In progress

Steele, Dr. David  
Bankruptcy proceeding: three real estate title examinations  
Funding: None, other than personal  
Status: Complete

Researching federal bankruptcy laws and state and federal real estate law, & application of research to specific fact situations.

Dissertation Research

Gunderson, Harvey S.  
Continuous and discrete probability distribution in two-stage programming of bank assets  
Funding: None, other than personal  
Status: Complete
3. Major Student Research

Duerst, Dr. Richard  
SUPERVISED STUDENT: Joe Wahloquist  
Synthesis and Characterization of Rare Earth and Transition Metal Complexes  
FUNDING: None, other than personal  
STATUS: In Progress

4. Dissertation Research

Campbell, Dr. Donald  
SUPERVISED STUDENT: Vinh Nguyen  
Binding of Copper in Lake Sediments  
FUNDING: None, other than personal  
STATUS: In Progress

Duerst, Dr. Richard  
SUPERVISED STUDENT: James P. Simmons  
The Distribution and Transport of Lead in the Environment  
FUNDING: Departmental  
STATUS: Complete

Lead concentrations in soil and water in the vicinity of Eau Claire, Wisconsin, have been analyzed. Strong evidence obtained from this study suggests that most of the lead is retained in soil and sand by a cation exchange mechanism.

Innovative Pedagogical Project

Klink, Dr. Joel  
SUPERVISED STUDENTS: John Butler, Karen Henson  
A Self-Study Programmed Guide for the Elucidation of Structure by Instrumental Methods

FUNDING: University Research Grant  
STATUS: In Progress

8. Other

Denno, Dr. Allen  
"Chemistry for Artists and Art Buffs"  
FUNDING: None, other than personal  
STATUS: In Progress

DEPARTMENT OF COMPUTER SCIENCE

1. Research and Investigation

Larsen, Dr. Leonard  
Implementing PLANIT  
FUNDING: Other  
STATUS: In Progress

4. Dissertation Research

Nuesse, David  
"The Effectiveness of the Use of a Computer as a Teaching Tool in the Learning of Selected Concepts of Symbolic Logic by College Freshman Students in Mathematics"  
FUNDING: None, other than personal  
STATUS: Complete

The primary purpose of this study was to evaluate the relative effectiveness of a lecture-computer-assisted instruction mode and a lecture-discussion mode of teaching of a unit on symbolic logic. It was concluded that: 1) A lecture-CAL mode of instruction is as effective as a lecture-discussion mode in teaching a unit of symbolic logic to the college freshman level; 2) Subject anxiety about learning mathematics on computers can be lowered by experience in using CAI mathematics materials; 3) Attitude levels of subjects may be influenced by their particular CAI and learning experiences, but overall levels are only slightly positive.

7. Innovative Pedagogical Project

Nuesse, David  
Review of Manuscript and Contributions to a Book of Readings to be Published by the Science Research Associates, Incorporated.  
FUNDING: None, other than personal  
STATUS: Complete

The book of readings to be published is in the field of Computers and Modern Society. My project was in two parts: 1) Review and analysis of each article that might be included in the book; 2) Contributions to the book in the form of bibliographic entries for various chapters and supplements to the chapter on computer art.

"Adaptation of Computer Programs received from UW-Madison to the 8500 computer for application in disciplines across the campus"  
FUNDING: Departmental  
STATUS: Complete

Pumphin, Dr. Bruce  
A Set of FORTRAN Subroutines for Automatically Generating Three-Dimensional Plots on a CALCUMP Digital Plotter  
FUNDING: Departmental  
STATUS: In Progress
1. Research and Investigation

Larson, Dr. Vicki  COLLABORATOR: Dr. Pete Mueller
A Comparison of Using Audio vs. Audio-video Tapes in Analyzing the Clinical Process

FUNDING: University Research Grant
STATUS: In Progress

Mueller, Dr. Peter  COLLABORATOR: Dr. Vicki Larson
Comparison of the Effectiveness of Visual and Auditory Media in Clinical Training

FUNDING: University Research Grant
STATUS: In Progress

2. Major Student Research

Kruse, Dr. Robert John  SUPERVISED STUDENT: Lillian Savage
Some Problems with Understanding Language Therapy

FUNDING: None, other than personal
STATUS: In Progress

SUPERVISED STUDENT: Wendy Larson
A Clinician's Handbook on Normal Human Development

FUNDING: None, other than personal
STATUS: In Progress

3. Major Student Research

Egan, James P.  SUPERVISED STUDENT: Bill Whalen
Tuition Rates and the Student Enrollment Decision

FUNDING: Other
STATUS: In Progress

Leitner, Dr. Keith R.  SUPERVISED STUDENT: Linda Neumens
The Effect of Tax Concessions for Pollution Control Equipment on the State Industrial Tax Burden

FUNDING: None, other than personal
STATUS: In Progress

The purpose of this study is to determine the extent to which preferential tax treatment for pollution control equipment affects the state tax burden on industry. Such a relationship is important in that many studies have suggested that state and local taxes do influence industrial location.

4. Dissertation Research

Altmann, James
Effects of Differential Taxation on Urban Regional Development

FUNDING: None, other than personal
STATUS: In Progress

Egan, James P.
The Effect of Tuition Rates on the Academic Quality of Students Enrolled at Institutions of Higher Education

FUNDING: None, other than personal
STATUS: In Progress

5. Program with Federal or Foundation Support (other than research)

Maly, Thomas
National Science Foundation Sponsored Workshop to Introduce Secondary School Teachers to "Economics in Society," a curricular Package Designed by Addison-Wesley

FUNDING: Foundation
STATUS: Complete

This workshop, which took place in June of 1974, was attended by twenty-three secondary school teachers, all of Wisconsin. Three instructors at the University of Wisconsin-Eau Claire, Thomas Maly included, made up the workshop staff.

DEPARTMENT OF ELEMENTARY EDUCATION
Liaison: L. Wayne

6. Program with Federal or Foundation Support (other than research)

Mortalon, Dr. Ronald
School Administrators Evaluate the Letter of Reverence and Selected Recruitment Practices

FUNDING: Departmental
STATUS: Complete

This questionnaire study surveyed the attitudes of public school administrators regarding several topics associated with teacher preparation programs. These topics included: (1) the content of the letter of reference written for student teachers and interns by cooperating teachers, (2) suggestions by administrators for improving the opportunity for employing inexperienced teacher candidates, (3) interview questions often asked by administrators and (4) the employability of elementary interns as opposed to student teachers from the viewpoint of administrators. These topics were analyzed with data collected by means of a survey of a sample of Wisconsin public school administrators.

DEPARTMENT OF ELEMENTARY EDUCATION
Liaison: L. Wayne

6. Program with Federal or Foundation Support (other than research)

Joyal, Dr. Lloyd  COLLABORATORS: Dr. Juanita Sorensen, Dr. Max Poole
IGE/SRF Teacher Education Project - Book and Related AV Materials "The Unit Leader and Individually Guided Education"
7. Innovative Pedagogical Project

Burk, Dr. Donald  COLLABORATOR: Billie Sparks
An Experiment in a Teamed Approach to Math Background and Methods for Elementary Education

FUNDING: None, other than personal
STATUS: In Progress

Sorenson, Dr. Juanita  COLLABORATORS: Max Poole, Lloyd Joyal
The Unit Leader and Individually Guided Education

FUNDING: Foundation
STATUS: In Progress

DEPARTMENT OF ENGLISH
Liaison: Dr. B. Waters

This project has researched the main critical approaches to Shakespeare's early tragedies from Titus Andronicus, Richard III, and Romeo and Juliet, through Richard II and Julius Caesar. Though there is disagreement about Shakespeare's tragic view of man in these plays, many of his best critics still see connections between man's suffering and moral responsibility and between man's freedom of the will and a purposive, ordered universe.

2. Artistic Production, Showing, or Recital

Hilger, Michael
If I Sing: The Poetry of Bruce Edward Taylor: Videotape

FUNDING: Other (HDC Budget)
STATUS: Complete

A series of monologues, cuts from poetry readings in the cabin, and a classroom, and imagery that has as its purpose the documenting of the personality, poetic theory, and poetry of Bruce Taylor, a very promising young poet at our University. The tape will be used in comprehensive creative writing, and poetry classes.

Schneider, Dr. Ralph
A Novel: Lost

FUNDING: None, other than personal
STATUS: In Progress

Taylor, Bruce
Rising Out of Love: The Poetry of Bruce Edward Taylor

FUNDING: None, other than personal
STATUS: Complete

A Collection of 68 original poems.

3. Major Student Research

Jackson, Dr. Alan  SUPERVISED STUDENT: Louis Tschername
"The Comic Element in John Hawke's The Second Skin"

FUNDING: None, other than personal
STATUS: In Progress

Rosen, Irwin  SUPERVISED STUDENTS: Ken Christopher; Ron Davis
Teaching Creative Writing in Northwest Wisconsin

FUNDING: Federal
STATUS: Complete

I taught short story and news article writing to individuals and writing clubs in Northwest Wisconsin during the summer of 1973 and through late spring 1974.

4. Dissertation Research

Hirsch, Tim
Biography of Andrew Talinter, Lumber Baron (1825-1899), Menomonie, Wisconsin

FUNDING: None, other than personal
STATUS: In Progress

6. Program with Federal or Foundation Support (other than Research)

Pearson, Douglas
Media Workshop (partially funded by Nat'l Endowment for the Arts)

FUNDING: Federal
STATUS: Complete

Twenty classroom teachers from Northwest Wisconsin participated in a media workshop studying film and filmmaking. Regional and national speakers made presentations during the three weeks. Teachers
4. Dissertation Research

Pickett, Nancy
Collaborators: Mary Glnneder, Elizabeth Maule
Topographic Maps of Wisconsin
Funding: None, other than personal
Status: In progress

Tanner, Gilbert
Collaborators: Fred Halfen, Existing Land Use Maps for Six Counties -- Northwestern Wisconsin
Funding: Federal (Title I)
Status: In progress

Maps for Guide Book of Ice Age Foundation to Be Published 1976 by Wisconsin Trails
Funding: Other
Status: In progress

4. Dissertation Research

Bouchard, Thomas
Funding: None, other than personal

7. Innovative Pedagogical Project

Foltzsch, Dr. Manfred
Schiller's Waffensteins for the American High School Junior College
Funding: None, other than personal
Status: In progress

Rolland, Barbara
Collaborator: Media Development Center
"International Employment and You," a slide-sound presentation providing information on international employment possibilities in areas such as journalism, social welfare, business, languages, etc.
Funding: Complete
Status: In progress

This slide-sound presentation describing international employment possibilities in many fields was prepared with the foreign language student -- both high school and university level -- in mind. It is available on either a rental or purchase basis to schools wishing to inform their students of job opportunities where foreign languages can be a plus factor.

DEPARTMENT OF HISTORY
Liaison: Dr. G. Penniman

1. Research and Investigation

Mickel, Dr. Ronald
Concepts Held by White Americans in 1920's Concerning Blacks
Funding: None, other than personal
Status: In progress

4. Dissertation Research

Lazda, Paul
The Role of the Indigenous Population in the Russo-German Struggle for Hegemony over the Baltic Provinces, 1860-1885
Funding: None, other than personal
Status: In progress

DEPARTMENT OF JOURNALISM
Liaison: E. Karwand

1. Research and Investigation

Polk, Leslie Davis
A study, to result in an article for Journalism Quarterly, of the use of press releases from Promire, Nelson, Thomson in a selected period of time, as used in Third Congressional District newspapers, together with previous references in this field of governmental publicity and its use.
Funding: None, other than personal
Status: In progress
DEPARTMENT OF LIBRARIES
Liaison: R. Bell

1. Research and Investigation

Engelginder, Eugene
Author and Subject Index to the *Wisconsin Academy Review*, v. 1-19 (1954-1973)

FUNDING: None, other than personal
STATUS: Complete

Fetvedt, Robert COLLABORATOR: Harvey Retzack
Computer produced Analysis of Library Circulation by Library of Congress Classification

FUNDING: Departmental
STATUS: Complete

Computer produced listing in classification order with category subtotals and totals of circulation frequency within a given class number for the calendar year 1972.

DEPARTMENT OF MUSIC
Liaison: Dr. M. Cunningham

1. Research and Investigation

Cunningham, Dr. Michael
*A close-up of Beethoven and his times*

FUNDING: None, other than personal
STATUS: Complete

An article intended for general readership, which attempts to present a personal and speculative view of Beethoven.

Transcription for three saxophones and string bass of the Christian Bach Piano Sonata Opus 17, No. 6

FUNDING: None, other than personal
STATUS: In Progress

Transcriptions for voice and piano of the eight Mozart Concert Arias for tenor and orchestra

FUNDING: None, other than personal
STATUS: In Progress

Smith, Dr. Edwin
*William Henry Fry's Leonora, America's first Grand Opera*

FUNDING: None, other than personal
STATUS: In Progress

2. Artistic Production, Showing, or Recital

Anderson, Robert P.
Recital of Double Bass Music

FUNDING: None, other than personal
STATUS: In Progress

Bennett, Roy E. COLLABORATOR: Michael Cunningham
Faculty Recital; Roy Bennett, viola; 3/3/74

FUNDING: None, other than personal
STATUS: Complete

Berry, Daniel COLLABORATOR: Penelope Hendel
Voice Recital; 4/7/74

FUNDING: None, other than personal
STATUS: Complete

Bors, Mrs. Ada COLLABORATORS: Dr. Rupert Hohmann,
Dominic Spera, Barbara Pautz
Viennese Ball

FUNDING: None, other than personal
STATUS: Complete

The Viennese Ball idea was submitted to the university as a public relations project. The Ball was presented April 26, 1974, and featured two contrasting ensembles: the University Symphony Orchestra and Jazz Ensemble I. Money obtained from the event went to special music scholarships.

Voice Recital; Ada Bors, accompanist; 6/26/74

FUNDING: Other
STATUS: Complete

Burky, Kenneth COLLABORATOR: Paul Kosower
Faculty Cello Recital; Kenneth Burky, assisting artist; 11/10/74 and 6/19/74.

FUNDING: None, other than personal
STATUS: Complete

Innovative Pedagogical Project

Fetvedt, Robert COLLABORATORS: Richard Bell, Eugene Engelginder, Leslie Foster, Jane Marshall
Phillip Staff, Harriet Barry, Barbara Stevens
KWOC Keyword Index to Reference Collection

FUNDING: Departmental
STATUS: Complete

Provides a computer produced index to the library reference collection based on significant words in each title.

DEPARTMENT OF MATHEMATICS
Liaison: Dr. L. Wahlstron

1. Research and Investigation

Bierman, Dr. Orville
A comparison of topological manifolds with the monotone union and monotone intersection properties

FUNDING: None, other than personal
STATUS: In Progress

Teeters, Dr. Joseph
Applications of Geometric Transformations to create Tessellation Art

FUNDING: None, other than personal
STATUS: In Progress

2. Artistic Production, Showing, or Recital

Teeters, Dr. Joseph
Designs of Tessellation Art, p. 191 and Cover, New York State Mathematics Teachers' Journal; 10/74

FUNDING: None, other than personal
STATUS: Complete

Design of Tessellation Art, P. 6, Connecticut Mathematics Journal; 12/74

FUNDING: None, other than personal
STATUS: Complete

DEPARTMENT OF NURSING:
Maternal and Child Health
Liaison: M. Cofman

Institutional Study

Bahleda, D.
Long Term Evaluation Study of Graduates of the School of Nursing - 1969-1973
COLLABORATOR: Dominic Serra
Faculty Trumpet Recital; Kenneth Burky, assisting artist; 5/5/74.
FUNDING: None, other than personal
STATUS: Complete

Faculty Piano Recital; 4/7/74
FUNDING: None, other than personal
STATUS: Complete

Artist in Residence; Juniata College, Huntingdon, PA.; January 8-11, 1974.
FUNDING: None, other than personal
STATUS: Complete

Burky, Ms. Louise COLLABORATOR: Ms. Frances Miller
Faculty Flute and Harp Recital; 10/20/74
FUNDING: None, other than personal
STATUS: Complete

"Come, Holy Spirit" (a motet for choir)
FUNDING: None, other than personal
STATUS: In Progress

A Holy Standard for choir and piano based on a poem by Francis Marion Crawford.
FUNDING: None, other than personal
STATUS: Complete

Flag of the Seas - for Male chorus (based on a poem by Joseph Rodman Drake)
FUNDING: None, other than personal
STATUS: Complete

Two songs for high voice, based on poetry of Petrarch and Michelangelo
FUNDING: None, other than personal
STATUS: Complete

Sestina for solo cello
FUNDING: None, other than personal
STATUS: Complete

Jetstream (a composition for stage band)
FUNDING: None, other than personal
STATUS: Complete

Incidental Music for the Bertold Brecht play, Caucasian Chalk Circle (Performed by UWE Theater department February 21-March 1, 1974.)
FUNDING: None, other than personal
STATUS: Complete

Piano Trio No. 3 (woodwinds)
FUNDING: None, other than personal
STATUS: Complete

Flute and Bary (A chamber opera for soprano, tenor, baritone and piano)
FUNDING: None, other than personal
STATUS: Complete

Dick, Beverly COLLABORATOR: Dr. Rupert Hohmann
"Face, Peace, O Mio Dio" for La forza del Destino
"Ernani, Involami" from Ernani
"Salve, Salve" and "Ave Maria" from Otello
FUNDING: None, other than personal
STATUS: Complete

COLLABORATOR: Nancy Rice
"Five Cummings Songs" by Ellie Siegmelster (Performed during the 1974 UWEC Contemporary Music Symposium)
FUNDING: None, other than personal
STATUS: Complete

Evenrud, Jerry
Faculty Organ Recital; 9/29/74.
FUNDING: None, other than personal
STATUS: Complete

Gargarian, Mirlan
Faculty Recital; Solo Piano; 4/21/74
FUNDING: Departmental
STATUS: Complete

Solo Piano Recital; St. John's Armenian Church, Southfield, Michigan; 9/29/74
FUNDING: Other
STATUS: Complete

Radio broadcast of solo piano recital; WDET, Southfield, Michigan
FUNDING: None, other than personal
STATUS: Complete

Proctor, Anne
Faculty Piano Recital; 10/13/74
FUNDING: Departmental
STATUS: Complete

Hendel, Penelope
Faculty Piano Recital; 2/3/74;
COLLABORATOR: Daniel T. Berry
Faculty Voice Recital; 4/4/74
FUNDING: Departmental
STATUS: Complete

Workshop Piano/Saxophone Recital in Shell Lake, Wisconsin, 8/4/74
COLLABORATOR: Eugene Rouseau
FACULTY VOICE RECITAL; 10/6/74
FUNDING: None, other than personal
STATUS: Complete

COLLABORATOR: Charles Hirt
15th Annual High School Choral and Directors' Clinic at UWEC on 10/19/74.
FUNDING: Departmental
STATUS: Complete

Hohmann, Dr. Rupert
String Chamber Orchestra Concert; 1/27/74
University Chamber Orchestra Concert at Wausau, Wisconsin; 2/4/74
University Chamber Orchestra at Dom Serpico Recital 2/18/74
Violin in Rodney Hudson Trombone Recital; used string chamber group; 3/6/74
University Symphony Orchestra Concert; 3/10/74
University Symphony Orchestra, Contemporary Music Symposium; 4/4/74
University Chamber Orchestra at Stevens Point, Wisconsin; 4/26/74
University Symphony Orchestra at Viennese Ball, Davies Center; 4/27/74
University Chamber Orchestra at Dominic Spera's Trumpet recital; 5/5/74
University Symphony Orchestra and Oratorio Chorus in Dvorak's Stabat Mater, University Arena; 5/12/74
University Symphony Orchestra (String Clinic) 10/5/74
University Symphony Orchestra in Concert; 10/27/74
University Symphony Orchestra, Madison/State MENC Convention, Mills Hall; 11/7/74
University Chamber Orchestra in Concert; 11/25/74
University Symphony Orchestra and Oratorio Chorus in Messiah, University Arena; 12/8/74

STATUS: Complete
Hudson, Rodney COLLABORATOR: Nancy Rice
Faculty Recital -- Students are being used in conjunction with this recital
FUNDING: None, other than personal
STATUS: In Progress

Kosower, Paul R.
Faculty Recital, Organ; 2/17/74
Faculty Cello Recital; 4/28/74
Cello Concerto at annual String Clinic
Cello Solo on 10/8/74
Faculty Cello Recital
Cello Soloist with University Chamber Orchestra
Concerto in C Major by Haydn

FUNDING: None, other than personal
STATUS: Complete

Cello Recital on Summer Concert Series
Cello Recital

FUNDING: Other
STATUS: Complete

Lunde, Ivar
Three Primitive Dances for Selected Instruments, Opus 52

FUNDING: None, other than personal
STATUS: Complete

Three Primitive Dances for Selected Instruments has three movements. The first movement is trying to resemble a renaissance dance, the second movement is a Raga, and the third movement utilizes African rhythms and melodies. The work is scored for violin, viola, piccolo flute, 2 oboes, English horn, bassoon, contra bassoon, and percussion.

FUNDING: None, other than personal
STATUS: Complete

Four Moods for Clarinet and Piano

FUNDING: None, other than personal
STATUS: Complete

Four Moods for Clarinet and Piano has four movements. Each movement describes a different mood. The first movement is to be played fast and agitated, the second movement is a ballad, the third movement is called furtivo, and the fourth movement is gentle. The work is scored for clarinet in B flat.

Sonata No. 1 for Piano has three movements: Fast - Slow - Fast. The work utilizes a twelve tone row in a free style. The last movement contains a theme derived from an Indian melody.

FUNDING: None, other than personal
STATUS: Complete

Vaughan, Elizabeth COLLABORATOR: Donald George
Wind Ensemble Concert, Tenor Soloist; 2/3/74

FUNDING: None, other than personal
STATUS: Complete

Smith, Edwin L.
Service Music; A collection of responses, introits, meditations for church use

FUNDING: None, other than personal
STATUS: In Progress

Spera, Dominic
Three Compositions to be published in June 1975

FUNDING: None, other than personal
STATUS: In Progress

Miller, Francis
The Viennese Ball - April 1974
Flute and Harp Recital with Louise Burky - 10/19/74
Fountains of Rome with University Orchestra - October and November 1974

FUNDING: None, other than personal
STATUS: Complete

3. Major Student Research

Dick, Beverly SUPERVISED STUDENT: John Bart, Sherman Leatherberry
Senior Voice Recital

FUNDING: None, other than personal
STATUS: Complete

Preparation of Mr. Bart and Mr. Leatherberry for a joint senior recital which included works by Handel, Beethoven, Mozart, Butterworth, Strauss, Brahms and Surname. Date of the recital was 11/20/74.

FUNDING: None, other than personal
STATUS: Complete

Sonata Number 3 for Piano

FUNDING: None, other than personal
STATUS: Complete
Preparation of Miss Driel for her senior recital which included works by Handel, Wolf, Bolto, Poulenc and Menotti. Date of the recital was 2/4/74.

SUPERVISED STUDENT: Debra Wilson

Junior Voice Recital

FUNDING: None, other than personal
STATUS: Complete

Preparation of Miss Wilson for her junior recital which included works by Arne, Schumann, Brahms, Barber, Faure. This recital was presented on 3/6/74.

Evenrud, Jerry A. SUPERVISED STUDENT: Jo Ellen Limberg Graduate Organ Recital, Organ Music of Bach, Vierne, and Proulx.

FUNDING: None, other than personal
STATUS: Complete

Hendel, Penelope C. SUPERVISED STUDENT: Susan Gilbertson Senior Piano Recital; Program included significant works for the piano by Bach, Hindemith, Brahms, and Ravel.

FUNDING: None, other than personal
STATUS: Complete

SUPERVISED STUDENT: Mary Imgremehle Senior Piano Recital. Program included significant works for the piano by Scarlatti, Mozart, Debussy, and Franck.

FUNDING: None, other than personal
STATUS: Complete

Keezer, Ronald SUPERVISED STUDENT: Ron Gard Graduate Recital; 11/25/74

FUNDING: None, other than personal
STATUS: Complete

This recital was given in partial fulfillment of the requirements for the Master of Science in teaching degree. The Sifer work and the Pellegrino composition were Wisconsin premiers. This recital featured Mr. Gard as an unaccompanied solo performer. His May 4, 1975 recital will feature percussion solo compositions with a variety of instrumentalists and instrumental accompaniments.

Kosower, Paul R. SUPERVISED STUDENT: David Hoppe Junior Cello Recital; 4/10/74

SUPERVISED STUDENT: Kaye Shepherd Senior Recital - Cello; 3/26/74

FUNDING: None, other than personal
STATUS: Complete

Rice, Nancy SUPERVISED STUDENT: Peggy Svarcina Senior Recital - Piano; 12/8/74

SUPERVISED STUDENT: Lynn Callow Recital - Piano; 2/20/74

FUNDING: None, other than personal
STATUS: Complete

Recital - Piano; 3/13/74

Scheffel, Kenneth SUPERVISED STUDENTS: Barbara Butler, Lynn Callow

Student Recital; 5/1/74

SUPERVISED STUDENTS: LuAnne Fols, Andrea Olson, & Kenneth Lidge

Student Recital; 12/4/74

FUNDING: None, other than personal
STATUS: Complete

7. Innovative Pedagogical Project

Cunningham, Dr. Michael

A Counterpoint Textbook Dealing with the Style of the 18th Century

FUNDING: None, other than personal
STATUS: In Progress

A Manual dealing with Music Composition Techniques

FUNDING: None, other than personal
STATUS: In Progress

A Freshman-Sophomore Theory Book

FUNDING: None, other than personal
STATUS: In Progress

Gargarian, Miriam COLLABORATORS: Hendel, P.; Burky, K.; Rice, N.; Lunde, N.

UN-Extension Piano Camp; June 23-29, 1974

FUNDING: Other
STATUS: Complete

Junior and senior high school students took part. Gargarian taught "Applied Piano" and "Survey of Piano Literature (lecture and demonstration)."

Spera, Dominic

"An Oral and Melodic Approach to Jazz Improvisation"

FUNDING: None, other than personal
STATUS: Complete

DEPARTMENT OF OFFICE ADMINISTRATION AND BUSINESS EDUCATION

Liaison: J. Schillak

1. Research and Investigation

Wunsch, Daniel COLLABORATOR: Mach, Or. Kaye

Survey to determine the Availability and the Requirements of Office Jobs in Wisconsin for High School Graduates as Reported by Businesses in Wisconsin

FUNDING: Federal; State; UW-EC
STATUS: In Progress

Labarre, Dr. James

The Relationship of Selected Personal and Academic Factors to Predictability of Performance on the Certified Professional Secretary Examination

FUNDING: None, other than personal
STATUS: Complete

Seven prediction equations were developed as a result of this study. These equations may be used as prognostic devices to determine if a person is able to pass the certified professional secretary examination.

4. Dissertation Research

Heinze, Dr. John

"The Effectiveness of Dictation Practice on the Letter-Writing Performance of University Students Enrolled in Business Communication Courses."

"THE EFFECTIVENESS OF DICTATION PRACTICE ON THE LETTER-WRITING PERFORMANCE OF UNIVERSITY STUDENTS ENROLLED IN BUSINESS COMMUNICATION COURSES"
1. Research and Investigation

Behling, Dr. Richard
"The Predicative Function of 'exists'
STATUS: Complete
FUNDING: None, other than personal

Koshoshek, Ronald
"Technology and Performance: An Approach to the Normative Analysis of Technical Behavior"
STATUS: In Progress
FUNDING: None, other than personal

Jannusch, Dr. Bruce
Interpreting Basil Bernstein's socio-linguistic approach in terms of Piagetian Structuralism
STATUS: Complete
FUNDING: None, other than personal

Rice, Dr. Daniel
The Political Thought of Stephen Marshall
STATUS: In Progress
FUNDING: None, other than personal

2. Dissertation Research

Brummer, James J.
Contemporary Intuitionism in Ethics
STATUS: In Progress
FUNDING: None, other than personal

3. Innovative Pedagogical Project

Wolda, Duane COLLABORATORS: Wm. Mitchell, Kathleen Briggs, Ronald Schlattman
Career Oriented Shorthand Cassettes: Series 1 - Educational; Series 2 - Manufacturing
STATUS: In Progress
FUNDING: None, other than personal

4. Current Projects, Programs and Research (continued)

A General Study of Religion and Politics in American Tradition
FUNDING: None, other than personal
STATUS: In Progress

Religious Tolerance in Stephen Marshall and Edmund Calamy
FUNDING: None, other than personal
STATUS: In Progress

A Search for Evolved Stars at High Galactic Latitude
FUNDING: None, other than personal
STATUS: In Progress

Elliott, Robert
Data Retrieval for Observational Astronomy Using the 85500 Computer
FUNDING: None, other than personal
STATUS: Complete

5. Innovative Pedagogical Project

deGrood, Richard
The Notion of Person in H. Richard Neibuhr's Theology
FUNDING: None, other than personal
STATUS: In Progress

Gross, Rita
Exclusion and Participation: The Role of Women in Aboriginal Australian Religions
FUNDING: None, other than personal
STATUS: Complete

A study of the literature on aboriginal Australian religions and several new theories on the role of women in that religious-cultural situation.

DEPARTMENT OF PHYSICS
Liaison: Dr. F. Schultz

1. Research and Investigation

Ballagneer, Dr. Donald
Infrared Analysis of Semiconductors using Carbon Dioxide Laser and Sample Area Scanning
FUNDING: University Research Grant
STATUS: Complete

Smethells, William COLLABORATOR: Dr. W. P. Bidelman
Abundance Effects in K Dwarf Spectra
STATUS: In Progress

A Search for Evolved Stars at High Galactic Latitude
FUNDING: None, other than personal
STATUS: In Progress

7. Innovative Pedagogical Project

Elliott, Robert
Data Retrieval for Observational Astronomy Using the 85500 Computer
FUNDING: None, other than personal
STATUS: Complete
4. Dissertation Research

Slippers, Morton
The President and his program in Congress: A study of the degree of success the president has in getting his proposals approved by Congress
FUNDING: None, other than personal
STATUS: In Progress

Chen, Jules
Political Development and Foreign Policy: An Analysis of the National Determinants of Malaysia's Foreign Policy
FUNDING: None, other than personal
STATUS: In Progress

Liaison: J. Chen

1. Research and Investigation

Baumgardner, Steve
The Limits of Rationality in Real World Decisions
Science and Society: Historical Foundations of Social Psychology
FUNDING: None, other than personal
STATUS: In Progress

Liaison: Dr. K. McIntire

3. Major Student Research

Harper, Dr. Jerry SUPERVISED STUDENT: Jerry Swan
The Prediction of Academic Success from Preschool Screening Data
FUNDING: Other
STATUS: Complete

Proctor, Dr. David SUPERVISED STUDENT: Raymond Bloomer
A Validation Study of Children's Classroom Drawings
FUNDING: Departmental
STATUS: Complete

Liaison: Dr. S. Pedgitt

Smoor, Dr. Kenneth SUPERVISED STUDENT: G. A. Boock
Behavior Modification in the Teaching of Reading
FUNDING: None, other than personal
STATUS: Complete

Liaison: Dr. S. Pedgitt

DEPARTMENT OF POLITICAL SCIENCE
Liaison: J. Chen

4. Dissertation Research

Williams, Dr. James
"Indian Health and Population Growth"
FUNDING: None, other than personal
STATUS: In Progress

Floro, Dr. George
The Study of Styles of Scholarship in Sociology; Scientific, Theoretical, Descriptive, and Typological
FUNDING: None, other than personal
STATUS: In Progress

DEPARTMENT OF PSYCHOLOGY
Liaison: Dr. R. McIntire

4. Dissertation Research

Minkus, Dr. Helene
The Philosophy of the Akwamn Akam of Southern Ghana
FUNDING: Federal; Foundation
STATUS: Complete

The dissertation is a study of the cultural philosophy of one Akwamn Akam beliefs concerning the categories of existents, the modes of causality, the means of acquiring knowledge, the nature of human beings and the value system are described in successive chapters.

Lysich, Joseph
Institutionalized Role Conflict as a System of Social Control on Women's Economic Mobility
FUNDING: Departmental
STATUS: In Progress

6. Program with Federal or Foundation Support (other than Research

Johnson, Dr. David
Improvement of the Undergraduate Social Work Program at the University of Wisconsin - Eau Claire
FUNDING: Federal; State Department of Health and Social Services
STATUS: In Progress

7. Innovative Pedagogical Project

Johnson, Dr. Dave COLLABORATOR: Dennis Johnson
Teaching-Learning Center Approach to Integration of Social Work Methods and Field Experience - Eau Claire
Department of Social Services
FUNDING: Federal; State Department of Health and Social Services
STATUS: In Progress

Liaison: Dr. C. Collin

DEPARTMENT OF SPECIAL EDUCATION
Liaison: Dr. C. Collin

4. Dissertation Research

Helling, Dr. Harlan
The Ability of the Personality Rating Scale to Differentiate Between Effective and Ineffective Student Teachers on a Personality Trait Basis
FUNDING: University Research Grant
STATUS: Complete

The purpose of this study was to provide some measure of validity for the Teacher Personality Rating Scale (TPRS). Three groups or raters evaluated 22 elemen-
2. Research and Investigation

Walsh, Grace COLLABORATOR: Norma Cook
Revision of Bibliography approved by Speech Communication Association and the Forensic Division to be Published
FUNDING: None, other than personal
STATUS: In Progress

1. Innovative Pedagogical Project

Dupont, Dr. Henry COLLABORATORS: Olivia Sue Gardner, David S. Brody
TOWARD AFFECTIVE DEVELOPMENT: A Program to Stimulate Psychological and Affective Development
FUNDING: Other
STATUS: Complete
Toward Affective Development (TAD) is an activity-centered program designed to stimulate psychological and affective development. TAD is designed for use with students, ages eight to twelve (grades three through six). The program is divided into five sections, comprising 21 units or 191 lessons. TAD lessons, activities, and materials have been planned for integration into the typical classroom schedule.

Wald, Dr. Richard
Writing an article for publication about a mute resident of Northern Wisconsin Colony. TITLE: A Most Exceptional Child.
FUNDING: None, other than personal
STATUS: In Progress

Sasso, Barbara
Language Approach to Reading Development
FUNDING: None, other than personal
STATUS: In Progress

DEPARTMENT OF SPEECH
Liaison: Mrs. A. Ridge

7. Artistic Production, Showing, or Recital

McDonnell, William
Presented Poetry Reading Hour; EC Retired Teachers; 1/74
Director, Spoon River Anthology; 2/74
Adapted and Directed James Thurber's Many Moons for Desert Interp, Festival and Northern Plains Interp, Festival; 3/74, 4/74


Presented Program to Eau Claire County Red Cross Chapter; 10/74

Ridge, Alice
Oral Interpretation Reading Hour for Eau Claire Retired Teachers; 12/3/74

Faculty Oral Interpretation Reading Hour; 9/13/74
Faculty and Staff Information
CURRENT PROJECTS, PROGRAMS AND RESEARCH, 1974 (continued) 

6. Program with Federal or Foundation Support (other than Research)

walsh, grace
Wrote and recorded for broadcast and national distribution a series of tapes for the American Cancer Society.

FUNDING: Foundation
STATUS: Complete

COLLABORATOR: David Morgan
A production of Tennessee Williams' Night of the Iguana
FUNDING: Departmental; Other
STATUS: Complete
Designed and supervised the construction, painting and execution of the scenery, props and lighting for this University Theatre production which ran for ten performances in Kjer Theatre.

Denson, Dr. Wil
Penny Arcade: An Original Three-Act Play
FUNDING: None, other than personal
STATUS: Complete
Our lives are not under our control... The people of Penny Arcade drift with the winds.

7. Innovative Pedagogical Project

Haug, Sally COLLABORATOR: Media Development Center Videocassettes of Selected Student Speeches

FUNDING: Departmental
STATUS: In Progress

The instructor selected outstanding student speeches presented in class. With the help of Media Development Service, all these speeches were transferred to one of the four master cassettes. The instructor developed a book of written evaluations to go with each videocassette. The four tapes of speeches to inform, to entertain, to convince, and to actuate, and the books of evaluations are housed in the IMC in the library for students to use as models.

Walsh, Grace
Coached and made all contacts and arrangements for my team to engage in international debate with Oxford University: 10/23/74

FUNDING: None, other than research
STATUS: In progress

Conducted an interstate debate tournament for 400 high school students.

NON-DEPARTMENTAL FACULTY

1. Research and Investigation

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

FUNDING: Departmental
STATUS: In Progress

Garrison, Dr. Kent
Success and Medical Technologist

FUNDING: None, other than personal
STATUS: In progress

The Successful Registered Medical Technician is a high achiever, one who seeks leadership, has much endurance and is intracptive, does not seek sympathy, is not highly sociable, and has an abundance of nervous energy.

Hallat, Dr. Douglas COLLABORATORS: Linda Long, Bruce Jungerberg
The Effect of Alcohol in Residence Halls on the University of Wisconsin System

FUNDING: None, other than personal
STATUS: In Progress

King, Wilma
Investigation of compatible alternatives for supplying public information to computerized media for general distribution

FUNDING: Departmental
STATUS: In Progress
5. Institutional Study

Whooley, Dr. John

Departmental Case Study: Secondary And Continuing Education Department's Entry into AACTE Competition

FUNDING: Departmental
STATUS: Complete

It is the purpose of this study to describe the pre-service and in-service teacher education programs offered through the Department of Secondary and Continuing Education at the University of Wisconsin-Eau Claire, with emphasis on several components which have been especially well received by educators in the area. The pre-service program is characterized by (1) competency-based objectives, (2) educating of teachers in human relations, (3) provision for options in field experience, (4) coordination of field experiences through student teaching centers, (5) preparation of cooperating teachers, and (6) systematic evaluation of all phases of instruction. Through its in-service program the Department has provided consultation and instruction to personnel in public schools, educational agencies and universities. The presentation of this study is based on the notion that distinguished achievement involves not only planning but also accomplishments and results. To that end the study emphasizes selected program components and concrete evidence of contributions to the improvement of teacher education.

A Model for Comprehensive Educational Planning and Evaluation

FUNDING: Other
STATUS: Complete

The project involved the design of (1) a five step decision-making model to assist comprehensive educational planning and evaluation, and (2) a training package to develop in selected personnel the evaluative competencies essential to using the model. Though designed especially for an educational service agency, the model and training package has breadth of application.
During the summer of 1972, studies were made of the open-water periphyton communities in the western arm of Lake Superior. A series of six perpendicular transects were established along 135 km. of the Minnesota shoreline of Lake Superior. Substrate stations were located on these transects at 1.85, 5.56, and 9.25 km. (1, 3, and 5 nautical miles) off shore. Sampling stations were located at distances off shore in which the total depth of water ranged between 132 and 274 meters (435 and 900 feet). Specifically designed substrate supports were located circa 6.1 and 12.1 meters (20 and 40 feet) below the water surface. Samples were collected on two varieties of artificial substrates, glass slides and nylon (Nitek) oval fish net. The four analyses performed included a total count of organisms, chlorophyll and phaeophytin determinations, dry weight, and ash-free weight analyses. Significant differences were noted from earlier work conducted in Lake Superior. Previous studies have indicated that periphyton communities on natural and artificial substrates in the shallow water areas of the lake consisted of 90 to 100 per cent of diatom populations. However, in the offshore studies, diatom populations comprised 70 per cent of the cells on nylon nets. Five algal species made up 91 per cent of the communities found attached to the nets. Inshore substrates were more productive than those from the more off-shore areas. For the two-week sampling phases total cell counts and chlorophyll, and total cell counts and ash-free weight values were significantly related at each depth (P < 0.05).

Liver Carbamyl Phosphate Synthetase was assayed in representative freshwater bony fish: Scaphirhynchus platyrhynchus, Polyodon spathula, Leptosomus platostomus, and Amia calva. Liver carbamyl phosphate synthetase was present in all species examined and showed a range of 0.008 - 0.036 in (mg) per gram for total protein. The exact value was 0.029 in. The presence of this enzyme was confirmed by the following methods: Lowry, who had shown that liver tissue of 21 species of fresh water teleosts. Assays for urease, allantoicase and allantoicase indicated that nucleic acid break down enzymes were present and perhaps active in the teleost fishes as in other animals and that this enzyme sequence could account for the high levels of urea excreted in some fishes. The reasons for high levels of arginase in liver tissue is still not fully understood.

Cvancara, Dr. Victor, "Liver Carbamyl Phosphate Synthetase in the Primitive Freshwater Bony Fish: Scaphirhynchus platyrhynchus, Polyodon spathula, Leptosomus platostomus, and Amia calva. Liver carbamyl phosphate synthetase was present in all species examined and showed a range of 0.008 - 0.036 in (mg) per gram for total protein. The exact value was 0.029 in. The presence of this enzyme was confirmed by the following methods: Lowry, who had shown that liver tissue of 21 species of fresh water teleosts. Assays for urease, allantoicase and allantoicase indicated that nucleic acid break down enzymes were present and perhaps active in the teleost fishes as in other animals and that this enzyme sequence could account for the high levels of urea excreted in some fishes. The reasons for high levels of arginase in liver tissue is still not fully understood.

Cvancara, Dr. Victor, "Liver Urea Formation In Freshwater Fishes", Presented at the Wisconsin Academy of Sciences, Arts & Letters, Spring 1974 Annual Meeting.

This paper discusses a technique for estimating the growth rate of solutions of some ordinary differential equations. The technique is based on the notion of kinematic similarity and an inequality of Wazewski, and applied to the damped Mathieu equation.


This book was written to offer help to people interested in starting a new business, primarily intended for use in ten-county area around Eau Claire, Wisconsin. Surveys were sent out to businesses as well as professionals working with new business people to define the biggest problem areas in starting a new business. On this basis, the book was written to show solutions to the major problems in starting new businesses. A section is included listing sources of help and a bibliography.


This is a discussion outline and Leader's supplement designed to acquaint the student of life insurance with some nine methods -- some of which are sound, others unsound and inherently deceptive -- which have been put forth, purporting to disclose the cost or value of life insurance to the consumer. The essential, but often overlooked, difference between life insurance and other forms of property is set forth. Fallacies are exposed in methods which either ignore the risk-sharing function, and related cost, in life insurance, or which add a hypothetical "interest factor" into portrayed life insurance costs, whereas such is not added into the costs of other forms of property with which life insurance is sometimes compared. Finally, a relative value system is set forth, based on a combination of two benefit/premium ratios, applying to probabilities of both death and survival, and merged into a single index based on the same mortality assumptions as are mandated by the National Association of Insurance Commissioners for reserve computations.


This article contains examples of a number of attacks against life insurance which contains cash values. It is pointed out that under the Uniform Valuation Laws there is the legal requirement that any life insurer providing long range death benefits on the basis of a level annual premium must provide adequate reserves under formula prescribed by the National Association of Insurance Commissioners. Furthermore, under the provisions of the Uniform Non-Forfeiture Laws all companies are required to make available, to policyholders who terminate their insurance prior to its becoming a death claim, all or part of the reserve liability required to be maintained by the company. Hence, the irresponsible attacks are not against the institution of life insurance, but are against the basic laws which the companies are, quite obviously, obeying. This raises the question as to whether the consumer interest would be better served by the repeal of the laws which require the payment of cash surrender values, in which event the critics should direct their activities toward such repeal, rather than in attacks against an industry for observing the laws. It is quite obviously the opinion of the author that the public interest is well served by the current laws, and by the various non-forfeiture values provided in modern life insurance, and that the critics are either ill-informed as to the fundamentals or -- if informed -- are intentionally malicious.

Baird, Harold W., "What Should an Airline Ticket Cost?", Field Notes, LXXI (VI), 1974, 5 pp.

This article is in rebuttal of those who attempt to compare widely different forms of life insurance contracts, such as term vs. whole life, on the basis of premium only, without taking into consideration the duration of the period the insurance may be continued at that level premium. The analogy is raised, showing the ridiculousness of comparing airline tickets on the basis of fare, without considering the distance a passenger could travel for the fare paid.


This article deals with the 'interest factor' inherent in the level premium, legal reserve, system of life insurance, and how interest (the 'time value of money') earned by the life insurance company reduces what otherwise would be the cost of insurance to the buyer. It points out that the value of money differs, with respect to different people, and even to the same person, dependent upon his financial and personal circumstances, thus introducing the 'utility' concept.


This points out that, because of the essential difference between life insurance and all other forms of property -- this being the automatic and immediate increase in value at the death of the insured -- life insurance provides an inflation hedge for those persons who are more concerned about estate values for their dependents than they are in current, and currently taxable, income to themselves such as would be produced by other forms of property.

Sussman, Dr. Marvin, "Abstract of 'Accounting for R and D Costs'", FFA Digest, IV (0), 1974, pp 42-45.

A synthesis of an article indicating the problems associated with accounting for research and development costs.
The collagen in bone and soft tissues of lathyritic animals is known to be more soluble than that of normal animals when traditional methods of extraction are employed. To ascertain whether a similar phenomenon occurs in lathyritic dentine collagen, the solubility of dentine matrix collagen was investigated in two solvents. Young male rats were maintained on a latherygen diet for 50 days, during which time the major part of the dentine matrix collagen of the incisors was shown to have turned over completely. Decalcified dentine matrix collagen was prepared by exhaustively dialysing cleaned incisors against 0.5 M acetic acid, and the non-dialysable matrix was further extracted with the same solvent, and then with 5 M guanidine hydrochloride. The dentine matrix collagen of both normal and lathyritic animals proved to be insoluble in 0.5 M acetic acid; guanidine hydrochloride extraction solubilized approximately 20% of the lathyritic matrix collagen as well as a quantity of non-collagen protein, in contrast to the soft tissue and bone collagens of lathyritic animals in which greater amounts of collagen may be solubilized by this procedure. Fractionation of the guanidine hydrochloride extract from the lathyritic animals by carboxymethyl cellulose chromatography revealed an unexpectedly high ratio of $\alpha_2$ to $\alpha_1$ components considerably greater than the 2:1 ratio demonstrated for lathyritic rat bone. These data provide evidence for significant differences between bone and dentine collagens.


Macrocyclic polythiaethers have been synthesized and some of their properties have been determined. The compounds reported comprise a homologous series containing two, or six sulfur atoms in the macrocyclic ring. One example of a five sulfur macrocyclic is included. The synthetic methods allow for symmetrical or unsymmetrical bridging of the ring sulfur atoms by ethylene, tri-, tetra-, penta-, and hexamethane bridges. These methods are contrasted to previously reported methods for macrocyclic polythiaether and mixed polythiaopolythiaether synthesis.


A series of saturated cyclic tetrathiaethers of the general formula $S-(CH_2)_x-S-(CH_2)_y-S-(CH_2)_z-S-(CH_2)_w$ (where $x = 2, 3, 4, 5, 6$, and $y = x$ or $x + 1$) have been synthesized and their complexation properties studied with Cu(II) and Hg(II). Complex stability constants show a high selectivity for Hg(II) and a marked dependence on ring size. In 80 wt. % methanol, maximum stability with Cu(II) is obtained with the 14-membered ring for which

$$K_{Cu} = 3.0 \times 10^{7} \text{ M}^{-1}$$

at 25$^\circ$, while for Hg(II) maximum stability is achieved with the 16-membered ring yielding

$$K_{Hg} = 2.2 \times 10^{9} \text{ M}^{-1}$$

at 25$^\circ$. Crystallographic evidence suggests that both of these complexes involve distorted octahedral geometries with the coordinated sulfur atoms in a planar array in the Cu(II) complex while being twisted slightly out of plane in the Hg(II) complex. Correlated kinetic studies with Cu(II) show that complex formation rate constants increase fairly steadily with increasing ring size with the second-bond formation step being rate-determining. By contrast, the dissociation rate constants are nearly equal for the 12- and 14-membered ring complexes with a sudden large increase occurring with the 16-membered ring.


This paper views the clinical supervisory relationship as a communication process characterized by three developmental stages: the interaction, the self-reflexive stage, and the self-reflective stage. The information stage and the interaction stage are based upon interpersonal relationships, while the self-reflective stage is concerned with enhancing intra-communicative abilities within the student. In other words, to improve the student's ability to talk to himself. The model suggested is not meant to be a capstone of current thinking on the matter of clinical supervision, it is more offered as a paper to stimulate thought in the area of clinical supervision.


This is a report on stuttering research completed at Temple University in Philadelphia. This study presents several possible experimenter effects on stuttering during self-administered time-out punishment and upon stuttering when there is no experimental contingency. Based on the results of this study, we conclude that the experimenter's presence during base rate increases stuttering, while an experimenter's presence during punishment decreases stuttering.


This paper presents a comparison of the way in which Russian speech therapists associate with other professions and similar associations in the United States. The goals and purposes of the professions as they exist in the two countries are discussed and compared. The general conclusion of the paper is that the trend for the future in the United States seems to be toward a multi-discipline integration including speech pathology and other allied health services.


A repetition task was employed to investigate syntactic patterns of hard-of-hearing children. Subjects were eleven students enrolled in public school classes for the hard-of-hearing. A matching control group of normal-hearing children was selected from the same schools. It was found that both groups tended to used grammatical constructions rather than non-grammatical approximations. However, the hard-of-hearing group was significantly lower in each grammatical form tested and, tended to substitute simpler forms. This lower level of performance seemed to represent a difference of degree rather than kind, as the experimental group displayed linguistic performance similar to the control group but showed a general delay in language development.
**DEPARTMENT OF ELEMENTARY EDUCATION**

Liaison: L. Wayne


This study investigated the use of an intermediate level of orthographic representation based upon the theoretical framework of transformational-generative grammar. A general objective was to determine whether a system of semantic correspondence was utilized when irrelevant phonetic aspects of orthography were encountered by good and poor readers from a fifth-grade population. A 2 x 2 factorial design was employed to investigate the effects of reading ability (good and poor), word reality (real and pseudo), and mode of presentation for stimuli and response items (oral and written). Good readers performed better than poor readers at a statistically significant level (p<.005) on those tasks which required recognizing regularities on a deep level. When regularities were recognized on a surface level, these differences between good and poor readers diminished. Good readers appeared to display a search technique which abandons a simpler level of correspondence in favor of one more efficient, one which precludes grapheme/phoneme correspondences for one directed toward semantic correspondence.

_Burk, Dr. Donald, "Piagetian Tests for Reading Readiness", Wisconsin State Reading Association Journal, XVII (III), 1974, pp. 24-27._

An inspection of available developmental tests with specific applicability to assessment of the readiness to read. Concentration is upon tests utilizing materials and skills readily available to the elementary teacher without additional expense.

_Burk, Dr. Donald, "A Tester's View Regarding Reading Readiness Training", Wisconsin State Reading Association Journal, XVIII (III), 1974, p. 28._

Presentation of the view that the purpose of reading readiness tests is undermined seriously by reading readiness training without real benefit to the child in progress toward readiness to read. It is a case of training to take a test.

_Mortalon, Dr. Ronald, "School Administrators Evaluate the Letter of Reference and Selected Recruitment Practices", Educational Resources Informational Center._

This questionnaire study surveyed the attitudes of public school administrators regarding several topics associated with teacher preparation programs. These foci included: (1) the content of the letter of reference written for student teachers and interns by cooperating teachers (in this study, cooperating teachers are those practicing teachers who work with student teachers and interns in their own classrooms), (2) suggestions by administrators for improving the opportunity for employing inexperienced teacher candidates, (3) interview questions often asked by administrators and (4) the employability of elementary interns as opposed to student teachers from the viewpoint of administrators. These topics were analyzed with data collected by means of a survey of a sample of Wisconsin public school administrators.

**DEPARTMENT OF ENGLISH**

Liaison: Dr. D. Waters


A bibliography of Black writers who delineated aspects of the American experience in the 1930's which were overlooked or ignored by white writers.


This is an anti-politician poem. It is about how overloading classes hurts students and education.


_Eating the Menu_ is a collection of over 100 poems by 27 poets under the age of thirty-five who at the time did not have a first book of their own verse published. It has a fourfold purpose. (1) to present as objectively as possible a cross-section of the types of poetry being written today by young poets, (2) to showcase some of those poets who no doubt will dominate the art in the upcoming two decades. (3) to display some of the most accessible and teachable of those poems for classroom use and (4) to stimulate the reader at a deeper level of poetry and excite the more experienced one. There is also included for each poet, a short critical essay by the poet, a brief biography of the poet, and a picture of the poet.

_Waters, Dr. Douglas, "Spenser and Symbolic Witchcraft in The Shepheardes Calendar", Studies in English Literature, XIII, 1974, pp. 3-15._

In harmony with most Protestants of the period, including the Puritans and English Churchmen alike, Spenser in The Shepheardes Calendar used symbolic witchcraft to satirize the Roman Mass, the Mass-priests as conjuring magicians, and their "consuming ceremonies." Artistically manipulating literal witchcraft as a symbol of spiritual seduction practiced by Romanists on the simple English laity, the poet effectively interrelated magicians, false shepherds, wolves, and foxes. He did not employ symbolic witchcraft to curse church vestments -- "popish conjuring garments" as the Puritans termed them. His criticisms of lavish clerical vestments do match certain denunciations of the Puritans, English Churchman, and such Roman Catholics as St. Bernard of Clairvaux, Cardinal Nicholas Cusanus, the Renaissance humanist Lorenzo Valla, and many others. But on ceremonies and vestments there seems to be no evidence in The Shepheardes Calendar that Spenser felt too many "relics of Popery" had been officially retained in the Church of England. His conformity was not that of "moderate" Puritanism. If he had used symbolic witchcraft against "popish conjuring garments" -- as he did against "popish conjuring ceremonies" -- he would still remain, as he does now, within conforming range of the Elizabethan Settlement, as enforced by Archbishop Parker's "Advertisements" (1566).


If the general order of composition was Sansson Agnostes, Paradise Regained, Milton had a growing concern with the sorcerer-rhetorician. With the exception of Sansson Agnostes, this figure appears not only in Comus but also the major poems. In Sansson Agnostes as in the religious prose tracts of 1601-1612, Milton used the idea of sorcery as a metaphor for false rhetoric, a technique which still implies an interest of some kind in the sorcerer-rhetorician whether or not the drama and the prose were composed in the same general period. Whereas who is a witchdoctor, sorcerer, or devil with devils, Satan and Baelial in both epics are devils who are both sorcerers and rhetoricians. The growing emphasis on the sorcerer-rhetorician in the epics helped Milton achieve a greater flexibility and imaginative freedom within the Renaissance conventions of witchcraft; it also indicates the limitation of those critical reviews that stress the so-called "degeneration" of Satan as an epic character. For Milton made it clear that, whatever else one might see in his role, Satan is a sorcerer and false rhetorician from the beginning to the end of both epics.

A commentary on the teaching of two popular Spanish songs in Beginning Spanish classes, written in response to an article by Harold Madden on a similar topic.

Hoff, Dr. Roma, "My Child - Learn a Foreign Language at Camp?", Wisconsin Spanish Teacher, XXVIII, 1974, pp. 22-27.

Case histories of several Spanish campers and the quantity/quality of language they learned at Concordia College Spanish Village. Description of a language village and a typical language program, listing activities in which the target language is used. Summary of all learnings in addition to foreign language.


The increasingly limited horizon for newly-graduated foreign language teachers makes it imperative that new job-opportunities be pointed out to foreign language students. Possibilities in business, government, social welfare, news media, world health and similar fields are discussed along with the kind of preparation needed for such positions and the efforts being made here at UW-EC to provide this preparation.

DEPARTMENT OF GEOGRAPHY
Liaison: Dr. J. Foust


The businessman is always interested in whether or not a given type of business will be viable in a particular location. One objective tool which the small businessman can use to help in making a locational decision is the concept of a "threshold" which is defined as the minimum number of people required to support one establishment of a particular type of business. Using a sample of small towns in Wisconsin the thresholds for fifty-three different kinds of small business operations were calculated through the use of linear regression. The successive increments in population which are required to support additional establishments of the same type of business were also calculated. These threshold values may be useful as an initial tool for making a locational decision by small businessmen.


A course manual designed to accompany instructional materials for an introductory physical geography course which emphasizes the elements of weather, climates, soils and vegetation. Included are specific learning objectives, key definitions, explanatory diagrams, and student exercises.

Tanner, Gilbert, Maps for Banking Study - Rosenberg.

Tanner, Gilbert, Rural and Urban Population of East Minnesota/Western Wisconsin, distributed by Miller Hospital.

Population map of area east of St. Paul, Minnesota, for Miller Hospital.

Tanner, Gilbert, Existing Land Use - 1933 - Cumberland, Wisconsin, distributed by West Central Wisconsin Planning.

11" X 17" - four-color map of Cumberland Land Use.

Tanner, Gilbert, North America, distributed by Geography Department.

17" X 22" - 2-color base map of North America for Geography 355.

Tanner, Gilbert, 11" X 17" 3-color map of Stockton Island, Wisconsin, private distribution.

Scale: 2 inches = 1 mile.

Tanner, Gilbert, Eight 17" X 22" 4-color Landuse Maps for West Central Wisconsin Regional Planning Commission.

Designed, compiled, drafted, and supervised the printing of eight full color existing landuse maps for use by the West Central Wisconsin Regional Planning Commission.

DEPARTMENT OF HISTORY
Liaison: Dr. G. Pennamen


Women and Society, a critical review of the literature with a selected annotated bibliography, 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.


The work seeks to elucidate the reasons for, and the extent of, the participation of Latvians in the October Revolution in Russia in general, and the role of Colonel Vacietsis, specifically. Vacietsis, born to a poor peasant family in Kurzeme, entered the Russian Imperial Army in 1911. When the War broke out in August, 1914, he commanded a battalion. In November, 1915, Vacietsis was given command of the Fifth Zemgale Latvian Riflemen's Regiment. The Latvian Riflemen distinguished themselves in stubborn resistance to German attacks through 1916, but with very heavy casualties. Vacietsis accepted the political changes brought about by the Revolution in March 1917 and retained a good rapport with his men. The Riflemen were increasingly influenced by Bolshevik propaganda and came to be regarded as the "Avant-garde of the Revolution." When they went over to the Bolsheviks, Colonel Vacietsis joined them. He believed that only the Bolsheviks recognized the right of the non-Russian peoples to self-determination and independence. Vacietsis also bore a resentment against the tsarist regime for personal slights and, without a doubt, he was an ambitious man. Lenin selected Vacietsis as the first Commander of the Red Army, and the Latvian regiments went on to fight innumerable engagements on the many battlefields of the Russian Civil War.

DEPARTMENT OF JOURNALISM
Liaison: E. Karwand


A survey of the methods, content, approach of the new course, Minority Press in America, designed to demonstrate the cross-disciplinary approach that has succeeded in this case giving journalism educators and journalism educators a new type of course as a 'classroom vehicle to keep pace with' various minority movements and ideologies.
Subject and author index to first fifteen volumes of Journal contents.

Subject and author index to first 15 volumes of Journal contents.

DEPARTMENT OF LIBRARY SCIENCE
Liaison: U. Emery
A description of a course taught at UW-Eau Claire during the 1974 summer session.

DEPARTMENT OF MATHEMATICS
Liaison: L. Wahslstrom
Teevers, Dr. Joseph, "How to Draw Tessellations of the Escher Type", The Mathematics Teacher, LXVII (IV), 1974, pp. 307-310.
The writer presents a technique (using geometric transformations) which has proved useful in creating fundamental regions of tessellation. A short clear discussion reveals how the regions can be used to create tessellation art.

Teevers, Dr. Joseph, "About the Cover (Copyright Design)", New York State Math Teachers' Journal, XXIV (IV), 1974, cover, p. 181.
Escher-type tessellation by the writer used to provide interest in creating tessellations of the Escher-type. Reference is made to work by the writer as well as E.R. Ranucci and E. H. Maletsky.

DEPARTMENT OF MEDICAL-SURGICAL NURSING
Liaison: W. Fossom
Snyder, Marlah, Rebecca Baum, 'Assessing Station and Gait', American Journal of Nursing, XXXIV, 1974, pp. 1256-1257.
A tool was developed to evaluate neurological patient's station and gait. After determining that the tool was both valid and reliable, it was tested. Ten pairs of nurses were assigned at random to evaluate the patients. One nurse in each pair used the tool; the other did not. Questionnaires answered by the nurses indicated that the tool made a statistically significant difference in nurses' ability to assess disturbance in station and gait.

Identifies the value of individualized nursing care plans and the characteristics of quality nursing plans. Gives practical suggestions for initiating and implementing written care plans in hospitals.

Cunningham, Dr. Michael, 'Human Expressiveness with Sounds', The View, XXXIII (II), 1974, pp. 8-11.
A dynamic minority of composers brought about challenges to the traditional concepts and assumptions concerning music composition during the decade of the 1960's. Some of the innovations are discussed.

Cunningham, Dr. Michael, Free Designs, Irish Symphony, Piano Concerto (for orchestra); Eusebius (for violin, cello and piano); Scenario (for percussion ensemble); Terzet (for three horns); Piano Sonata; Oboe Sonata; Tuba Sonata; Alto Saxophone Sonata; Statements (for trombone and piano), New York City: Seesaw Music Corporation, 1974.

The article is primarily intended as an informative tool for music educators in primary and secondary schools. It includes a description of the types of services provided by music therapists in school systems as well as clinical applications with patients having various handicaps. There is a brief historical discussion of therapeutic applications of music, and an examination of the major theories behind modern scientific usage of music as therapy. A description is provided of the UW-EC program and facilities. The article concludes with an explanation of why a student should pursue the music therapy profession only as a first alternative, instead of as a way of avoiding the teaching or concert performance areas of music.

The book is designed to improve skills of students intending to become office workers. It includes exercises that represent basic jobs that every typist does. Among the types of jobs are application forms, labels, cards, memos, rough drafts, and statistical typing. Jobs are set up at the trainee, production, and professional level. The book is one in a series of special books for people who like to work by themselves at their own rate.

Mitchell, Dr. William, Career Oriented Shorthand Cassettes, Distributed by Business Education Media Corporation, Eau Claire, Wisconsin, 1974.
These cassettes are designed to build speed in taking shorthand and are oriented toward the medical field.

This text is set up for use in the final course in shorthand. It includes shorthand speedbuilding as well as building marketable shorthand skill.

Set of ten cassettes and scripts for use with constant level dictating equipment. The manufacturing series
is designed to provide current business terminology with an innovative laboratory unit. Realism is incorporated into the methodology of the constant level system. The combination of machine and tapes provides a variety of teaching/learning techniques.

DEPARTMENT OF PHILOSOPHY
Liaison: Dr. R. Behling
Gross, Rita M., "Methodological Remarks on the Study of Women and Religion: Review, Criticism and Redefinition", *Women and Religion*, Missoula, Montana: Scholar's Press, 1974, pp. 151-165. This paper briefly reviews the standard literature on women and religion and criticizes all of the literature for utilizing an androcentric model of humanity. It then proposes that instead of working with a methodology that tries to find women's rank or place in men's worlds, the role of women in religion should be thought of as a pattern of exclusion and participation. It then outlines the major questions that must be dealt with if we understand the role of women and religion as a pattern of exclusion and participation.

Gross, Rita M., "On Being a Religious Jewish Woman," *Anima*, An Experimental Journal of Celebration, 1, 1974, pp. 22-32. This article distinguishes between relational and essential modes of being and contends that the problem Jewish women face is that their religion allows them participation only in the relational mode of being. Thus complete humanity and complete Jewisnness, which are the result of participation in both modes of being, are denied women. This situation is intolerable and unless changed there is no reason for women to continue to be loyal to Judaism.

DEPARTMENT OF PHYSICS
Liaison: Dr. F. Schultz
Anderson, Dr. J. Gerard, "An Electronic Spirograph", The Physics Teacher, XIII, February 1974, pp. 89-92. Surprising and spectacular displays on an oscilloscope can be produced by a special circuit arrangement which combines signals of two frequencies. The patterns obtained are much more complex than the Lissajous figures with which most physics and electronics teachers are familiar. The purpose of this paper is to describe a circuit which can produce the patterns and to describe the appearance and mathematical nature of some of the patterns.


Olson, Chester P., "Metric System Study Prints - Study Skills Systems, Set #1", Eau Claire: E. M. Hale Publishing Co., 1974. This set of ten color prints with text on reverse side, and packaged in plastic envelope, is designed for use by students and teachers who are learning the elements of the S.I. metric units of measurement. The study and use of scientific notation (powers of ten), metric prefixes, basic units and various practical applications of this new system is the major emphasis throughout the publication. The ten prints include: currency - dollar; length - meter; area - square meter; volume - liter; mass - gram; force & weight - newton; work - joule; time - second; and power - watts.

Baumgardner, Steve, Leon Rappaport, "Student Career Decisions: The Limits of Rationality", Research in Education, 1974 - Summer. Changes in student career plans were examined in terms of an analytic-intuitive criterion, emphasizing a distinction between logical-rational thought or a more intuitive, reflexive mode. Differences in career orientation were found to be associated with student's sex, area of study and year in school. A dramatic difference between strongly analytic freshman and more intuitive sophomore thinking seemed to reflect a clash between the conventional wisdom of parents and counselors, and the direct emotional experiences of college. Overall, this apparent lack of explicit rationality in student career decisions appears to be adaptive, due to the uncertainties surrounding career opportunities.

Smedhalls, William, The Space Density and Kinematics of Dwarf M Stars, A & A or, Michigan: University Microfilms, 1974, 98 pp. The results of an objective-prism survey for early M dwarfs are presented. The plates were taken with the Curtis Schmidt telescope at C.T.I. (O, with the 6" prism (dispersion of 600 A/mm at 5000 A) and Kodak Ia-1 film emulsion. The spectra were classified using the yellow-red spectral region with the principal luminosity discriminants being Na I D and Ca II H&K. In 1720 sq. deg., 186 dwarfs, primarily K7 and M5 were found to a limiting magnitude of r=12. Of the 186 stars, 33 were previously known red dwarfs. The present results indicate higher space densities of the intrinsically faint stars than previous luminosity functions. For 139 of the stars, coincidences are found with stars in the Bruce Proper Motion Survey: 83 of these, in turn, are found in the LTT. However, inserting the proper motions given into the equations of the method of mean absolute magnitudes yields values of M_{v} about three magnitudes brighter than the spectral types would indicate. That the method of mean absolute magnitudes appears to be calibrated on stars of higher than average proper motion lends much credence to our luminosity function result.

DEPARTMENT OF PSYCHIATRIC NURSING
Liaison: Dr. P. Crisham
Feeney, Mrs. Sally, Article in the Nursing Process in Practice, USA: The American Journal of Nursing Company, 1974, pp. 160-187. This article concerned a structured versus an intuitive intake nursing interview when admission patients to a mental hospital. The structured interview was found to yield significantly more information in approximately half of the time required by the intuitive method.

DEPARTMENT OF PSYCHOLOGY
Liaison: Dr. K. McIntyre
Baumgardner, Steve, R. Brilin, "Non-random sampling and regression artifacts in cross-cultural research", paper read at Meetings of Australian Institute of Aboriginal Studies, May 1974, Canberra, Australia. Although true random samples are necessary for the successful completion of some research projects, studies using non-random samples can also be valuable. Research using non-random samples can be improved, however, and our recommendation is for a more careful description of both. This paper describes a method of dealing with the problem of non-random samples and presents two new techniques for improving the reliability of such samples: (1) it will allow other researchers to choose the samples with more precision. (2) Careful description allows others to combine various sets of data into a functional relation. (3) It allows others to evaluate the plausible rival hypotheses that may threaten a study's validity. Suggestions for the content of a sample description are given.

Student and academic advisors' thinking toward career decisions was examined according to an analytic-intuitive criterion, emphasizing a distinction between logical-rational thought and a more intuitive, reflexive mode. Results indicated that advisors' conception of an ideal career strategy and of sophomore students' actual career orientation was relatively analytic. Advisors tend to view career choice more analytically than students. This misperception of student thinking appears to be a source of conflict between students and advisors. Other data suggests that a high percentage of students believe advisors' analytic orientation interferes with helpful career counseling and satisfactory career decisions. Purely rational career strategies appear to alienate students, especially during the middle college years. This suggests that career counselors should take care not to alienate students by attempting to override students' feelings and personal commitments with analytic-rational career strategies and 'objective' career information.


For two groups of pigeons, each of two differentially positioned stimulus lamps were correlated with identical reinforcement schedules and the absence of both lamps signalled extinction. Keypecking responses of one group were brought under stimulus control by a procedure which initially resulted in many "errors." The second group's responses were brought under control by a "fading" procedure, and few errors occurred. In Exp. I both the intermediate stimulus and the combined stimulus controlled higher response rates than single training stimuli, and other stimuli controlled lower rates. In Exp. II, chlorpromazine reduced responding during the stimuli correlated with reinforcement but had no effect on responding during the stimulus signalling extinction. The occurrence of errors in the acquisition of stimulus control was not a necessary condition for the observation of enhanced control by intermediate and combined stimuli nor a sufficient condition for the disruption of control by chlorpromazine.

Transitional Year Program
Liaison: R. Hegge


As a result of a series of repeating thematic concerns, I decided to unite a group of poems together into what I consider a serious comment on the nature of man. Time is used as the vehicle for presenting my ideas. More particularly, I wish to demonstrate that the basic nature of man has not changed with the passage of time. The ethical and spiritual problems which concerned the minds of the Ancients are still the issues for Modern Man as well. The poems range from serious narratives to light lyrical verse. Every effort has been made to insure the thematic unity of the collection, and to validate the underlying proofs.

NON-DEPARTMENTAL FACULTY

Carter, Hilda, The View, XXXII (1 & 2), XXI (1).

The View is both a University magazine and an alumni magazine; it is published by the Alumni Association of University of Wisconsin-Eau Claire Foundation, Inc. four or three times a year. The fall issue goes to all alumni and a special list of friends of the University and to all donors to the foundation; other issues go to alumni who have contributed to the Alumni Fund, administered by the Foundation, in the previous year, and to the special list.

Hambleton, Duane, "This Thing Called Programming", NEC Newsletter, VI (8), May-June 1974, pp. 12-13.

A brief summation of diverse statements from several sources relative to the philosophy of student activities programming.


The Wisconsin Research and Development Center has been actively involved in developing the concept of individually guided education. Schools which have adopted individualized education have found that the increase in bookkeeping chores is often difficult to manage. Recognizing these management problems, the Center has a component devoted to the development of a computerized system to help manage individually guided education. This article discusses the application of computer managed instruction to the Wisconsin Design for Reading Skill Development and the Developing Mathematical Processes, two curricular components developed by the Wisconsin R & D Center.

Whalley, Dr. John, "Improving the Lecture", Improving College Teaching, XXII-Summer 1974, p. 183.

A Professor, as a scholarly, responsible professional, ought to know what he is doing when he lectures, and why. This means he needs to appraise his performance and its results. The article dealt with appraisal of preparation, oral communication, selection of learning principles, and evaluation of learner achievement as they relate to the lecture.