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

<table>
<thead>
<tr>
<th>DEPARTMENT</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRENT PROJECTS, PROGRAMS AND RESEARCH</td>
<td>58571.01</td>
</tr>
<tr>
<td>Accountancy</td>
<td>58571.01</td>
</tr>
<tr>
<td>Art</td>
<td>58571.01</td>
</tr>
<tr>
<td>Audio Visual Services</td>
<td>58571.01</td>
</tr>
<tr>
<td>Biology</td>
<td>58571.01</td>
</tr>
<tr>
<td>Business Education and Office Administration</td>
<td>back of 58571.01</td>
</tr>
<tr>
<td>Chemistry</td>
<td>back of 58571.01</td>
</tr>
<tr>
<td>Economics</td>
<td>58571.02</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>58571.02</td>
</tr>
<tr>
<td>English</td>
<td>58571.02</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>back of 58571.02</td>
</tr>
<tr>
<td>History</td>
<td>back of 58571.02</td>
</tr>
<tr>
<td>Geography</td>
<td>58571.03</td>
</tr>
<tr>
<td>Geology</td>
<td>58571.03</td>
</tr>
<tr>
<td>Journalism</td>
<td>58571.03</td>
</tr>
<tr>
<td>Libraries</td>
<td>back of 58571.03</td>
</tr>
<tr>
<td>Maternal-Child Health Nursing</td>
<td>back of 58571.03</td>
</tr>
<tr>
<td>Mathematics</td>
<td>back of 58571.03</td>
</tr>
<tr>
<td>Music</td>
<td>back of 58571.03</td>
</tr>
<tr>
<td>Physical Education</td>
<td>back of 58571.04</td>
</tr>
<tr>
<td>Physics</td>
<td>58571.04</td>
</tr>
<tr>
<td>Psychology</td>
<td>back of 58571.05</td>
</tr>
<tr>
<td>Speech</td>
<td>58571.05</td>
</tr>
<tr>
<td>Non-Departmental Faculty</td>
<td>back of 58571.05</td>
</tr>
<tr>
<td>Non-Departmental Faculty</td>
<td>58571.06</td>
</tr>
<tr>
<td><strong>FACULTY PUBLICATIONS</strong></td>
<td>58571.51</td>
</tr>
<tr>
<td>Biology</td>
<td>58571.51</td>
</tr>
<tr>
<td>Chemistry</td>
<td>58571.51</td>
</tr>
<tr>
<td>Economics</td>
<td>58571.51</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>back of 58571.51</td>
</tr>
<tr>
<td>English</td>
<td>back of 58571.51</td>
</tr>
<tr>
<td>Foundations of Education</td>
<td>back of 58571.51</td>
</tr>
<tr>
<td>Geography</td>
<td>back of 58571.51</td>
</tr>
<tr>
<td>History</td>
<td>58571.52</td>
</tr>
<tr>
<td>Journalism</td>
<td>58571.52</td>
</tr>
<tr>
<td>Libraries</td>
<td>58571.52</td>
</tr>
<tr>
<td>Mathematics</td>
<td>58571.52</td>
</tr>
<tr>
<td>Music</td>
<td>58571.52</td>
</tr>
<tr>
<td>Physics</td>
<td>58571.52</td>
</tr>
<tr>
<td>Psychology</td>
<td>back of 58571.52</td>
</tr>
<tr>
<td>Special Education</td>
<td>back of 58571.52</td>
</tr>
<tr>
<td>Jr. Sr. High Education</td>
<td>back of 58571.52</td>
</tr>
<tr>
<td>Sociology</td>
<td>back of 58571.52</td>
</tr>
<tr>
<td>Speech</td>
<td>58571.53</td>
</tr>
<tr>
<td>Non-Departmental Faculty</td>
<td>back of 58571.53</td>
</tr>
</tbody>
</table>
1. Research and Investigation
Orozco, Dr. Lawrence
"An Analysis of Accounting-Types of Activities Performed by Technical Accountants in Northern Ontario Manufacturing Firms."
FUNDING: Canadian Government, STATUS: In progress.

2. Artistic Production, Showing, or Recital
Campbell, Charles
Continuation of a series of drawings and paintings of a primary linear orientation, using a limited range of color, and based upon a grid format.
FUNDING: None, other than personal, STATUS: In progress.

3. Use of Linear Geometric Forms in Optical Art
FUNDING: None, other than personal STATUS: Complete.

4. Exhibitions and Awards
FUNDING: None, other than personal. STATUS: Complete.

5. Institutional Study
McCoy, Dr. Paul
Research on, and formulation of, departmental graduate program.
FUNDING: None, other than personal. STATUS: In progress.

6. Innovative Pedagogical Project
Carson, Janet COLLABORATOR: Richard Scheman
Synergization of slides of children's art work which interprets music to the music itself, to be used in tutorial Carroll by children. (Using projected slides and tapes.)
FUNDING: Departmental. STATUS: In progress.

7. Research and Investigation
Arata, John
FUNDING: None, other than personal. STATUS: In progress.

DEPARTMENT OF ART
Liaison: J. Carson

1. Research and Investigation
Orozco, Dr. Lawrence
"An Analysis of Accounting-Types of Activities Performed by Technical Accountants in Northern Ontario Manufacturing Firms."
FUNDING: Canadian Government, STATUS: In progress.

2. Artistic Production, Showing, or Recital
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FUNDING: None, other than personal. STATUS: In progress.

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Synergization of slides of children's art work which interprets music to the music itself, to be used in tutorial Carroll by children. (Using projected slides and tapes.)
FUNDING: Departmental. STATUS: In progress.

DEPARTMENT OF AUDIO VISUAL SERVICES
Liaison: J. Arata

1. Research and Investigation
Orozco, Dr. Lawrence
"An Analysis of Accounting-Types of Activities Performed by Technical Accountants in Northern Ontario Manufacturing Firms."
FUNDING: Canadian Government, STATUS: In progress.

2. Artistic Production, Showing, or Recital
Campbell, Charles
Continuation of a series of drawings and paintings of a primary linear orientation, using a limited range of color, and based upon a grid format.
FUNDING: None, other than personal, STATUS: In progress.

3. Use of Linear Geometric Forms in Optical Art
FUNDING: None, other than personal STATUS: Complete.

4. Exhibitions and Awards
FUNDING: None, other than personal. STATUS: Complete.

5. Institutional Study
McCoy, Dr. Paul
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FUNDING: None, other than personal. STATUS: In progress.

6. Innovative Pedagogical Project
Carson, Janet COLLABORATOR: Richard Scheman
Synergization of slides of children's art work which interprets music to the music itself, to be used in tutorial Carroll by children. (Using projected slides and tapes.)
FUNDING: Departmental. STATUS: In progress.

DEPARTMENT OF BIOLOGY
Liaison: Dr. B. Snodgrass

1. Research and Investigation
Orozco, Dr. Lawrence
"An Analysis of Accounting-Types of Activities Performed by Technical Accountants in Northern Ontario Manufacturing Firms."
FUNDING: Canadian Government, STATUS: In progress.

2. Artistic Production, Showing, or Recital
Campbell, Charles
Continuation of a series of drawings and paintings of a primary linear orientation, using a limited range of color, and based upon a grid format.
FUNDING: None, other than personal, STATUS: In progress.

3. Use of Linear Geometric Forms in Optical Art
FUNDING: None, other than personal STATUS: Complete.

4. Exhibitions and Awards
FUNDING: None, other than personal. STATUS: Complete.

5. Institutional Study
McCoy, Dr. Paul
Research on, and formulation of, departmental graduate program.
FUNDING: None, other than personal. STATUS: In progress.

6. Innovative Pedagogical Project
Carson, Janet COLLABORATOR: Richard Scheman
Synergization of slides of children's art work which interprets music to the music itself, to be used in tutorial Carroll by children. (Using projected slides and tapes.)
FUNDING: Departmental. STATUS: In progress.
Salgo, Dr. Roy W.  
Anatomical Changes in the Bark of Silver Fir and Sub-Alpine Fir as Induced by the Balsam Woolly Aphid.  
FUNDING: Univ. Research Grant. STATUS: In progress.  
COLLABORATORS: Dr. Jerry Davis, Dr. Ray

3. Effects of Ceratocystis fimbriata on the Phloem and Vascular Cambium of Ulmus americana.  
FUNDING: Teacher Improvement Assignment  
STATUS: Complete.  
The article has been submitted for publication.

4. An Ultrastructural Investigation of Cortical Giant Cells in Fraser Fir Induced by Balsam Woolly Aphid.  
FUNDING: Univ. Research Grant. STATUS: In progress.  
COLLABORATORS: Mrs. Barbara Salgo

5. Studies of feeding by Homopteran Planthoppers.  
FUNDING: None, other than personal. STATUS: In progress.  
COLLABORATORS: Dr. Roy Salgo

6. Giant Cell Formation in Grand Fir Seedlings as Induced by the Balsam Woolly Aphid.  
FUNDING: Federal. STATUS: In progress.  
COLLABORATORS: Mrs. Barbara Salgo

FUNDING: None, other than personal. STATUS: In progress.  
COLLABORATORS: Dr. Birdall

8. Water and ion permeability in selected freshwater teleosts.  
FUNDING: Univ. Research Grant. STATUS: In progress.  
COLLABORATORS: Dr. Lester

9. Inhibition of Plant Metabolism by the Fluoride ion.  
FUNDING: Univ. Research Grant. STATUS: In progress.  
COLLABORATORS: Dr. John Woodruff

FUNDING: University Grant. STATUS: In progress.  
COLLABORATORS: Dr. Lester Walker

11.重大学生研究
Walker, Dr. Lester SUPREME STUDENT: Ronald Hemsted Temperature Effects on ion Permeability in the White Sucker.  
FUNDING: Departmental. STATUS: In progress.  
COLLABORATORS: Mr. Dr. Lester Walker

12. 辛迪的系统
FUNDING: Departmental. STATUS: Complete.  
COLLABORATORS: Dr. John R. Lisa

13. Research and Investigation
Campbell, Dr. Donald SUPREME STUDENT: Gertie Hahn Complexes of the Laminites with Macroyclic Polymers.  
FUNDING: University Grant. STATUS: In progress.  
COLLABORATORS: Dr. Donald Campbell

14. Scientific and technical investigation
Atkinson, Dr. Allen SUPREME STUDENT: Thomas Schlairet Chemical Stress Relaxation in Polymer Films.  
FUNDING: Departmental. STATUS: In progress.  
COLLABORATORS: Dr. Atkinson

15. Innovation Pedagogical Project
Peate, Dr. R.B. SUPREME STUDENT: Gary Branschuster: Preparation of SiO2 and related compounds.  
FUNDING: Departmental. STATUS: In progress.  
COLLABORATORS: Dr. R.B. Peate

16. Effective Biology Laboratory Techniques which require minimal preparation, equipment and expense.  
FUNDING: Departmental. STATUS: In progress.  
COLLABORATORS: Mrs. Barbara Salgo

17. DEPARTMENT OF BUSINESS EDUCATION AND OFFICE ADMINISTRATION  
Liaison: E. Viken

4. Dissertation Research
Langemo, Mark  
"An Experimental Study to Determine the Effectiveness of Fast Con-Response Dictation Compared with Traditional Dictation in First Semester Shorthand Instruction."  
FUNDING: None, other than personal. STATUS: In progress.  
COLLABORATORS: Dr. Mark Langemo

5. The Effects of Repetitive and Non-repetitive Practice on Straight Copy Speed and Accuracy Achievement in First Semester Typewriting.  
FUNDING: None, other than personal. STATUS: Complete.  
COLLABORATORS: Dr. Mark Langemo

6. A study to determine the effectiveness of repetition and non-repetitive practice in learning to typewrite is more beneficial to speed and accuracy achievement than non-repetitive practice. In all instances the non-repetitive approach to building straight copy speed and accuracy was superior to the repetitive approach.

7. Innovative Pedagogical Project
Kern, Dr. Willard  
"The Teaching of Programming by the Use of a Hypothetical Computer Language Simulator for the B-15000."  
FUNDING: None, other than personal. STATUS: In progress.  
COLLABORATORS: Dr. Willard Kern

8. Department of Chemistry  
Liaison: F. Krausa

9. Research and Investigation
Campbell, Dr. Donald SUPREME STUDENT: Gertie Hahn Complexes of the Laminites with Macroyclic Polymers.  
FUNDING: University Grant. STATUS: In progress.  
COLLABORATORS: Dr. Donald Campbell

10. Scientific and technical investigation
Atkinson, Dr. Allen SUPREME STUDENT: Thomas Schlairet Chemical Stress Relaxation in Polymer Films.  
FUNDING: Departmental. STATUS: In progress.  
COLLABORATORS: Dr. Atkinson

11. Innovation Pedagogical Project
Peate, Dr. R.B. SUPREME STUDENT: Gary Branschuster: Preparation of SiO2 and related compounds.  
FUNDING: Departmental. STATUS: In progress.  
COLLABORATORS: Dr. R.B. Peate
SUPERVISED STUDENT: David Magle
Detection of heavy metals in Half Moon Lake.
FUNDDNG: Departmental. STATUS: in progress.

SUPERVISED STUDENT: Carla Venera
Metal-Metal Interactions.
FUNDDNG: Departmental. STATUS: in progress.

Eliner, Dr. Melvin SUPERVISED STUDENT: Darlene Nohl
An elucidation of the metabolic pathways of DDT degradation by soil Micro-organisms.
FUNDDNG: Univ. Research Grant. STATUS: in progress.

Maurer, Dr. Charles
Electrophoretic Behavior of Soluble Collagen in Aqueous Calcium - phosphate.
FUNDDNG: Departmental. STATUS: in progress.

Ochrymoycz, Dr. Leo COLLABORATORS: Dr. Kazuo Nakamoto, Dr. David Horabecker, Dr. Jon Clardy, SUPERVISED STUDENT: John D. Nichola
Coordination Chemistry of Macrocyclic Polyethers.
FUNDDNG: Departmental. STATUS: in progress.

Oxalate Synthesis via M-Ortho.
FUNDDNG: Univ. Research Grant and Research Corp. STATUS: in progress.

Major Student Research

Chaelier, Philip SUPERVISED STUDENTS: Steve Jansen, Barnett Roseman,
"The Chemistry of I-Substituted Benzoxorbornadienes and Dibenzoxorbornadienes."
FUNDDNG: Univ. Research Grant. STATUS: in progress.

Hunt, Dr. Charles SUPERVISED STUDENT: Jeanne Nictoissadt
Preparation and Investigation of Tetracyanoethylenide Complexes of Transition Metals.
FUNDDNG: Foundation. STATUS: in progress.

Marking, Dr. Ralph SUPERVISED STUDENT: Douglas Thompson
The Synthesis and Characterization of Ternary Salts of Zirconium and Hafnium.
FUNDDNG: Departmental. STATUS: Complete.

New ternary salts of zirconium and hafnium having Z oxidation states were prepared using molten aluminum halides as the solvent for the reaction. Elemental analyses were performed and the splitting parameters determined from the electronic spectra. A mechanism is proposed for various steps in the reduction process.

Dissertation Research

Nelson, Dean
Preparation and Properties of Coordination Complexes of Cyclic Trithione Oxides.
FUNDDNG: None, other than personal. STATUS: in progress.

Program with Federal or Foundation Support (other than Research)

Campbell, Dr. Donald COLLABORATOR: Dr. Melvin Glacet
Air Quality Monitoring for Wisconsin Department of Natural Resources.
FUNDDNG: D.N.R. STATUS: In progress.

DEPARTMENT OF ECONOMICS
Liaison: J. Egan

1. Research and Investigation

Johnson, Dr. Jerry D. COLLABORATORS: Dr. David Ramoot, Dr. Curtis Adams
"Effectiveness of the introductory course in Economics at the college level."
FUNDDNG: Personal and Departmental. STATUS: in progress.

4. Dissertation Research

Peterson, Robert
Agricultural Credit to Subsistence Farmers in Mexico: A Case Study of Four Villages Near Guadalupe.
FUNDDNG: None, other than personal. STATUS: in progress.

7. Innovative Pedagogical Project

Egan, James COLLABORATORS: Dr. Jerry Johnson, Robert Patton
"Effectiveness of Team Teaching Current Issues Course in Economics."
FUNDDNG: Personal and Departmental. STATUS: in progress.

Johnson, Dr. Jerry COllLABORATOR: James Egan, Robert Patton
"Effectiveness of Team Teaching Current Issues Course in Economics."
FUNDDNG: Personal and Departmental. STATUS: in progress.

DEPARTMENT OF ELEMENTARY EDUCATION
Liaison: Dr. B. Thompson

1. Research and Investigation

Schanberg, Dr. Juanita COLLABORATORS: Lloyd Joyal, Dr. Donald Birr, Dr. Max Poole
Extension of the concept of individually guided education and the multi-unit Elementary School (IGE/MS-E) into the Upper Levels of the Middle School (grades 7 and 8).
FUNDDNG: None, other than personal. STATUS: in progress.

DEPARTMENT OF ENGLISH
Liaison: Dr. J. Douglas Venera

1. Research and Investigation

Arzte, Esther
1) Prophetic Imagery in King John. 2) Invisibility Modern Man's Predicament as Revealed in James Joyce's The Radiance of the King and Ralph Ellison's Invisible Man.
FUNDDNG: None, other than personal. STATUS: in progress.

Hugger, Dr. Michael
The Rhetoric of Comedy: Comic Theory in the Terentian Comedy of Atticus Donatus.
FUNDDNG: None, other than personal. STATUS: in progress.

Norris, Elizabeth
Structures of Reality: a Recursive Principle for the New Rhetoric
FUNDDNG: None, other than personal. STATUS: in progress.

Rubrecht, August
The Dictionary of American Regional English in Louisiana.
FUNDDNG: None, other than personal. STATUS: Complete.

The paper investigates several possible kinds of correlation between dialectal and cultural features, with illustrative examples drawn from linguistic field work done in Louisiana.

Sampson, Dr. Neale
Research has been entirely personal and unofficial: many hours devoted to the study of the current feminist movement which I hope will be useful in designing and teaching courses in Women's Studies.
FUNDDNG: None, other than personal. STATUS: in progress.

Stolling, Wifred
"Time Past and Time Present: The Search for Viable Links in The Chosen People."
FUNDDNG: None, other than personal. STATUS: Complete.

The novel, The Chosen Place, The Timeless People. (1969), reflects time past in time present, developing a human, historical, and cultural continuum which cannot deny The chosen place is a ravaged land of a West Indian
Island. The "timeless people" are its inhabitants, a mixture of races, poor, and historically committed to the place. Eschewing a testament for survival for all people, Mrs. Marshall demonstrates that sustenance for a future can come only from knowledge of the past.


FUNDING: None, other than personal. STATUS: Complete. It has been accepted for publication by the SLA Journal.

St. Louis, R. A Critical Old-Spelling Edition of John Ford's Comedy Drama The Fancies Chest and Cobweb.

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

This edition consists of the text of Ford's play, with a critical and textual introduction, extensive Commentary, and Textual Notes. The first section of the introduction discusses "Critical Reputation, Plot, and Theme," attempting to show that the many previous critical condemnations of the play were based on misinterpretations, and examining dominant themes, as well as the function of certain important characters.

The second section of the introduction, "Language," focuses on imagery and multiple meaning in the play, while the third section discusses the date on composition, and the final section explains textual criteria of the present edition. The Commentary defines much of the vocabulary, offers examples of comparable thought drawn from 16th and 17th-century works, explains why certain readings have been retained from the 1638 quarto or amended, and attempts to interpret difficult passages. The Textual Notes consist of "Verse Versions by Form" and "Textual Notes," the latter listing all amendments made in the present edition as well as substantive variants in the editions collated.

2. Artistic Production, Showing, or Recital

Kirchord, Richard L.

Poetry Writing.

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

3. Major Student Research (for which you are an advisor)

Alexander, Dr. Robert SUPERVISED STUDENT: Eleanor Hofman

"Peterson" by William Carlos Williams—its Influence in American Criticism, Appreciation and Research.

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

SUPERVISED STUDENT: Mrs. Virginia Quayle

The Supernatural and the Sacred in the Poetry of Coleridge and Keats.

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

Rosen, Irwin SUPERVISED STUDENT: Jeremy Kochman

Some Creative Writing on American Indians.

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

SUPERVISED STUDENT: Bonnie Smith

Creative Writing—Short Stories and Poems.

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

Schneider, Dr. Ralph SUPERVISED STUDENT: Bill Laine

Games and Madness in Nabokov's Pale Fire.

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

4. Dissertation Research

Buchholz, John

An American Tragedy: The Iconography of a Myth (A Naturalist's Aesthetics: Scenic Presentation).

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

Pearson, Douglas A.

Imagery in Thomas Hardy's Novels.

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

St. Louis, R. A Critical Old-Spelling Edition of John Ford's Comedy Drama The Fancies Chest and Cobweb.

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

This edition consists of the text of Ford's play, with a critical and textual introduction, extensive Commentary, and Textual Notes. The first section of the introduction discusses "Critical Reputation, Plot, and Theme," attempting to show that the many previous critical condemnations of the play were based on misinterpretations, and examining dominant themes, as well as the function of certain important characters.

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7. Innovative Pedagogical Project

Spaulding, Dr. Kenneth

Textbooks, American Indian Literature.

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

DEPARTMENT OF FOREIGN LANGUAGE

Lindsay, R. Brown

1. Research and Investigation

Hendrickson, James M.

"La escuelita en los niñosconta de Ana María Natsu." 11

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

"Etrony y Metafopbrazh Definée Delobelle." 11

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

This research paper deals with a detailed study of the use of irony and metaphor in the minor character, Désirée Delobelle, in Present Jeunes et Rislar Aind, a novel by Alphonse Daudet.

Politz, Dr. Manfred

Li Ta and Works of A. F. Cnatz (1737-1801).

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

DEPARTMENT OF HISTORY

Lindsay, R. T. Penniman

1. Research and Investigation

Bangstrom, Dr. Leonard


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

Mikel, Dr. Donald

Communitie Held by White Intellectuals in U.S. of Nature of Black Race.

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

Myh, Dr. Edward

Black Nationalism in the Great Depression.

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

Schoenfeld, Dr. Kenneth

1) Book-War Ministry of Winston Churchill (due May, 71).

2) Book—Sir Winston Churchill (due Nov., 71).

FUNDING: Univ. Research Grant. STATUS: In progress.
4. Dissertation Research
Gosch, Stephen
Socialism and the Intellectuals in France, 1890-1914.
FUNDING: None, other than personal. STATUS: In progress.

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

Weller, Gregory
Pope Benedict XIV and Cardinal Guirin de Tancle: An Analysis of Their Relationship, 1742-1756.
FUNDING: Univ. Research Grant. STATUS: In progress.

5. Institutional Study
Gochman, Dr. William
COLLABORATORS: Dr. John Ridge, Dr. Edward Musik
A Survey of Graduates with Majors from the Department of History, Wisconsin State University, Eau Claire.
FUNDING: Other. STATUS: In progress.

DEPARTMENT OF GEOGRAPHY
Liaison: Dr. R. Saltz

1. Research and Investigation
Bissell, Dr. H.
COLLABORATOR: J. B. Fawcett
FUNDING: None, other than personal. STATUS: In progress.

Saltz, Ethel J.
Time and vegetation succession as factors in soil morphology.
FUNDING: None, other than personal. STATUS: In progress.

Saltz, Dr. Karlin
U.S. Geography in 10,000 B.C.
FUNDING: None other than personal. STATUS: In progress.

Tanner, Gilbert
COLLABORATOR: James Anderson
Maps for Determining Land Values in West Central Florida.
FUNDING: None, other than personal. STATUS: In progress.

Tuvaska, Joseph
a) A Theoretical Framework for Political-Geographic Analysis of Minority Problems: 
   i. The Sudeten-German Minority Today;
   ii. Polish Minority in the CSSR: A Political-Geographic Analysis.
   FUNDING: None, other than personal. STATUS: Complete

The three interrelated papers analyze the problem of political minorities within the classical Central European context. In the first paper an integrated analytical framework is constructed which permits description and analysis of the minority situation with a degree of precision not obtained in previous studies, and leads to a more precise analysis and prediction of the survival probability of the minority group. The two case papers apply the above method to the specific conditions of two very different minority groups within the CSSR; Predictions and projections presented in the interim research report (1970) are tested against the newest available data and information.

Compaction in Congressional Redistricting
FUNDING: None, other than personal. STATUS: Complete.

Though compactness of congressional districts have been often legally required, it has been enforced only in the most blatant cases of gerrymandering. The main reason for the neglect has been the lack of defini-tion of the term and availability of satisfactory methods of measuring compactness are evaluated, and a new method based on political-geographic analysis of population patterns is introduced. The method is applied to all redistricting proposals introduced in the legislative bodies of Wisconsin in 1971 and leads to some discriminatory results.

4. Dissertation Research
Alexander, James
Two Tarascan Towns: Twenty-seven Years After Peculiu Volcano.
FUNDING: None, other than personal. STATUS: In progress.

Boochard, Thomas
Politics and the Environment: The Significance of the National Environmental Policy Act.
FUNDING: None, other than personal. STATUS: In progress.

Cahoon, Adam
Sediment Geomorphology of the Southwest Segment of the Chippeewa Lake Moraine Complex.
FUNDING: None, other than personal. STATUS: In progress.

Fautz, James
Uniquitous Manufacturing: A Monte-Carlo Simulation of Fischerian Low-Order Nets.
FUNDING: None, other than personal. STATUS: In progress.

Jahns, Robert
Audio-Tutorial Instruction for Physical Geography.
FUNDING: None, other than personal. STATUS: In progress.

Pickett, Mrs. Nancy
Development of a model indexing scheme for computer-based retrieval systems for non-print material.
FUNDING: None, other than personal. STATUS: In progress.

Tuvaska, Joseph
Political Geography and International Politics.
FUNDING: None, other than personal. STATUS: In progress.

6. Program with Federal or Foundation Support (other than research)
Goranson, Dr. Leonard
COLLABORATOR: Dr. Elmer Winters
Summer Institute for Teachers of Geography and Social Science.
FUNDING: Foundation. STATUS: Complete.

The 1971 Institute in General Geography was a teacher improvement institute for High School and Junior High teachers. Forty-three teachers from many parts of the United States as well as from Wisconsin and the Eau Claire area were in attendance. Major emphasis of the institute was to improve the competencies of these teachers in physical and cultural geography and in new curriculum materials and methods of teaching geography.

7. Innovative Pedagogical Project
Saltz, Ethel J.
The development of miniaturized soil monoliths for instructional purposes.
FUNDING: None, other than personal. STATUS: In progress.

DEPARTMENT OF GEOLOGY
Liaison: Dr. F. Myers

1. Research and Investigation
Myers, Dr. Paul
Basaltic emplacement in the Harpster Region, Idaho.
FUNDING: None, other than personal. STATUS: Complete.

Strongly deformed Precambrian through Late Triassic metamorphic rocks and Late Mesozoic granodiorite plutons are well-exposed in the area southeast of Harpster in north-central Idaho. Field relations and petrography of these rocks suggest diapirc emplacement of the Idaho basaltic in accordance with the following, generalized sequence: Late Triassic(?) open folding and widespread low-grade regional metamorphism was followed by Nevada(?)(?) high-amplitude, isoclinal shear-folding with formation of a broad thrust zone dipping E to SE 50° to 60°. Granite magma, generated downwardly by anatexis, rose synkinematically as wedges along eastward-dipping compositional laminations in the masses. Wedge-injection accompanied diapiric upwelling with progressively greater amounts of upward displacement eastward, so that at the present level of exposure, we see successively deeper portions of the
diapir eastward. Continuous zones of albitization also widen down-dip at the expense of differentially assimilated mafic sedimentary roof pendants. While mica schists and gneisses were quickly assimilated, quartzites and calc-silicate rock persisted as schlieren in the granodiorite rock. Amphibolites were segmented and rafted as angular blocks. Xenolith orientation shows laminar flow in zones of concordant injection and turbulence at places of obliquely discordant injection. Late kinematic, mesothermal intrusion of stocks at Blacktail Butte and Harpster followed by Laramide (?) thrusting and cataclasis, converted older granitized rocks to felsic gneisses. These tectonic movements produced the ancestral Clearwater Mountains which were rapidly eroded before Miocene eruption of Columbia River Basalt.

Geology of Harpster Quadrangle and Vicinity, Idaho. 
Funded: Idaho Bureau of Mines and Geology. 
Status: in progress.

Zircons in Granitoid Rocks in Harpster Region, Idaho. 
Funded: None, other than personal. Status: Completed.

Progress report -- Geology of Marathon County by Gene LaBarge (U-W-O) and P.E. Myers. 
Funded: None, other than personal. Status: Completed.

DEPARTMENT OF GEOLOGY

1. Research and Investigation

Park, Leslie D. 
Readings in Critical Writing, a project of research leading, hopefully, to publication. 
Funded: None, other than personal. Status: In progress.

DEPARTMENT OF JOURNALISM

1. Research and Investigation

Engelstine, Eugene A. 
Funded: None, other than personal. Status: Complete.

These cumulative author, title, and subject indexes include all articles, book reviews, obituary and letters to the editor appearing in The Wisconsin Sociologist from 1960 through 1971. A variation of the KATIC method forms the basis structure of the subject index.

Stevens, Barbara K. 
Bibliography on Aphasia in Children. 
Funded: None, other than personal. Status: In progress.

A comprehensive bibliography, including abstract sources, of English and foreign language materials published to February, 1971.

DEPARTMENT OF MATERIAL-CHILD HEALTH NURSING

1. Research and Investigation

Bahlke, Gene 
"Bottle Feeding of the infant". 

The development of concepts relative to bottle feeding of infants, including skills in pre-preparing feedings by various methods. Emphasis is placed on basic understandings of this form of infant nutrition in order to assist and teach parents.

DEPARTMENT OF MATHEMATICS

1. Research and Investigation

Bierman, Dr. Orville 
Monotone Intersection and Monotone Union Properties of Manifolds. 
Funded: None, other than personal. Status: In progress.

Hamptdon, Dr. Bradley 
Research on Tight Immersions. 
Funded: None, other than personal. Status: In progress.

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

Wick, Dr. Marshall 
1971 NSF Summer Institute for Teachers of Math, 
1972 NSF Summer Institute for Teachers of Math, 
Director of the 1971 institute and will direct the 1972 institute. 

Innovative Pedagogical Project

Funded: WIS Department of Public Instruction Status: In progress.

DEPARTMENT OF MUSIC

1. Research and Investigation

Taylor, Dale 
"Subject Responses to Precategorized Stimulative and Sedative Music" presented Nov. 12, 1971 at the 22nd Annual Conference of the National Association for Music Therapy. 

Subjects were tested to find out if their reactions to musical selections coincided with the stimulative or sedative categorization assigned to each selection by previous experimenters. Significant differences were found between both subjective and physiological observed responses to music and the expected responses as determined by previous categorizations.

2. Artistic Production, Showing, or Recital

Bennett, Ray COLLABORATOR: Dorothy Bennett 
Faculty Recital 
Funded: Departmental. Status: Complete.

A program for Violin and Piano featuring works by Pietro Locatelli, David Arman, Ernest Bloch, and Johannes Brahms.

Burby, Louise 
Flute-Woodwind Quintet, April 6, 1971. 
Funded: None, other than personal. Status: Complete.

Burby, Renhard 
Recitals, 1971: Accompanist for Dorothy Bennett, Faculty French Horn Recital, March 7, 1971; Paul Kosower, cello on March 10, 1971; Paul Kosower, cello, summer concert series, July, 1971; Paul Kosower, cello, Oct. 6, 1971; Faculty String Trio, Nov. 7, 1971, Faculty Trio Concert, Lady Smith, WIS., Oct. 20, 1971.
FUNDING: None, other than personal. STATUS: Complete.

Oich, Beverly COLLABORATOR: Nancy Rice Voice Recital
FUNDING: None, other than personal. STATUS: Complete.

This recital of lieder and aria included "Six Norwegian Poems" by Yvar Lundin, INSTRUCTOR IN MUSIC.

Evenrud, Jerry
The Organ Music of Gerald Near
FUNDING: None, other than personal. STATUS: Complete.

The project included a performance of all of the published compositions for organ in the order they were published. The composer also presented a tape of an unpublished composition and performed his most recent commission for organ.

Hertzel, Dr. Lawrence
Quintet for Trumpet and Strings.
FUNDING: None, other than personal. STATUS: Complete.

This composition was written for Mr. Stephen Chomej, Principal Trumpet of the Minnesota Orchestra.

Six Characteristic Pieces for Flute and Percussion (to be performed at the Fourth Annual Contemporary Music Symposium at the University of Wisconsin-Eau Claire).
FUNDING: None, other than personal. STATUS: Complete.

Discourse for Jazz Ensemble and Tape (to be performed at the National Convention of the Music Educators National Conference in Atlanta, Georgia, March, 1972).
FUNDING: None, other than personal. STATUS: Complete.

A Tuft of Flowers (song for soprano and piano to a text by Robert Frost).
FUNDING: None, other than personal. STATUS: Complete.

Handel, Penelope
Solo Piano Recital, April 26, 1971, Fine Arts Center, UW-EC.
FUNDING: None, other than personal. STATUS: Complete.

This recital featured the last sonata written by Mozart, two large Chopin works, four Debussy Preludes from Book II and the Piano Sonata by Samuel Barber.

Plano Recital presented in partial fulfillment of the requirements for the Ph.D. in Music at Michigan State University, East Lansing, May 10, 1971.
FUNDING: None, other than personal. STATUS: Complete.

Both the repertoire and performance of this recital must have approval by the candidate's committee. This recital featured major works by Mozart, Chopin, Debussy and Barber.

Solo Artist with the UW-EC Orchestra, Oct. 17, 1971, Fine Arts Center, UW-EC.
FUNDING: None, other than personal. STATUS: Complete.

Under the direction of Dr. Rupert Kohmann, the orchestra and pianist performed the Beethoven "Emperor" Concerto.

Plano-Strings Ensemble Concert, Oct. 25, Fine Arts Center, UW-EC.
FUNDING: None, other than personal. STATUS: Complete.

This concert featured works by Chopin, Veracini, Brahms and St. Saens.

Kohmann, Dr. Rupert
Concerts and Recitals.
FUNDING: None, other than personal. STATUS: Complete.

String Quartet Concert, April 19, 1971.
Trio Concert, Nov. 7, 1971.
University Oratorio Chorus and Orchestra, Carl Orff "Carmina Burana", May 16, 1971.

Keezer, Ronald COLLABORATOR: Nancy Rice, Ronald S. George, Dominic Spera.
FUNDING: None, other than personal. STATUS: Complete.

This recital was given to demonstrate the variety of musical styles and material available to a percussionist.

Koerner, Paul Recital.
FUNDING: None, other than personal. STATUS: Complete.

Dvorak Cello Concerto at State Music Convention, Madison West, Jan. 8, 1971.
Cello Recital, Fine Arts Building, March 10, 1971.
FACULTY STRING QUARTET, Fine Arts Building, April 7, 1971.
Cello Recital, Fine Arts Building, July 12, 1971.
Trio Concert, Mr. Senachie College, Oct. 21, 1971.
Conducted Schubert Mass in G, Faculty Soloists, Our Savior's Lutheran Church, Oct. 31, 1971.
Faculty Trio Concert, Fine Arts Building, Nov. 7, 1971.

Kunde, Iver
Sonatina for Oboe and Piano, Opus 39.
FUNDING: None, other than personal. STATUS: Complete.

Sonatina for Oboe and Piano was first performed at UW-EC on Oct. 15, 1971 by the composer and pianist Nancy Rice. The work has three movements: Maestoso-Fast, Very Slow, Very Fast. Performance length is 8 minutes.

Six Norwegian Poems for Soprano and Piano, Opus 40.
FUNDING: None, other than personal. STATUS: Complete.

Six Norwegian Poems for Soprano and Piano was written for Mrs. Beverly Dick of the UW-EC music department and performed by her on two occasions: March 20, 1971 as part of the third annual Contemporary Music Symposium and Sept. 19, 1971 as part of her own recital at UW-EC. Each movement builds on a different poem by different poets. The poems used in this composition are: "Et Foreg Farver Jorden" by Arnulf Oversland, "Jeg Er En Skau" by Knut Amdals, "Midda Fugler" by Hans Børklid, "Den Fremmed Fugler" by Karl Bakke, and "Vemmer" by Ernst Orm. Performance length is 10 minutes and it is in manuscript.

Three Short Pieces for Solo Oboe, Opus 38.
FUNDING: None, other than personal. STATUS: Complete.

Three Short Pieces for Solo Oboe illustrates dawn-dusk. It was first performed in Tassenberg on April 15, 1971, by the composer. Performance length is 5-6 minutes and it is in manuscript.

Psalm 43 (Judece me, Deus) Opus 37.
FUNDING: None, other than personal. STATUS: Complete.

Psalm 43 (Judece me, Deus) was written for UW-EC University Choir and was performed by the same organization under the direction of Morris Hayes on May 7, 1971, at the University of Wisconsin-Eau Claire. The work is scored for SATB. Performance length is 6 minutes and it is in manuscript.

"HRIGA" Opus 36. (Musical composition in one movement for Symphony orchestra.)
FUNDING: Foundation and Other. STATUS: Complete.
"MAGA" was written as a commissioned work for the 1100th anniversary of the town Tønsberg in Norway. It was performed by the Vestfold Symphony Orchestra under the direction of Per Christian Jensen on the 22nd of April in Tønsberg, Norway. The performance was taped by the Norwegian Broadcasting Corporation for a later broadcast. The score is kept with other official documents at the Town Hall. "MAGA" is scored for 222-423-soprano-strings. Performance length is 11 minutes and its in manuscript.

**Metamorphoses for Symphonic Band, Opus 308.**
FUNDING: None, other than personal. STATUS: Complete.

Metamorphoses for Symphonic Band was written for the UW-M Music Band and was performed by the same ensemble on Dec. 8, 1971, under the direction of Dr. Donald George. The work is a transcription of Metamorphoses for Symphonic Orchestra by the same composer. The work is scored for Flute, 2 Bsn., 2 A. Sax., T. Sax., B. Sax., 2 Cornets, 2 Tpt. 4 Hrn., 3 Tbj., 2 Tuba, 2 Euph., Str. Bass, Timpani, Percussion. Performance length is 13 minutes and its in manuscript.

**COLLABORATOR:** Manette Lunde

**Construction of an 18th century French Harpsichord using designs and parts furnished by Frank Hubbard, Harpsichord Maker, Waltham, Mass.**
FUNDING: None, other than personal. STATUS: In progress.

**Nordic Suite for Symphony Orchestra, Opus 43.**
FUNDING: None, other than personal. STATUS: In progress.

**Toccata and Fugue for Harpsichord, Opus 42.**
FUNDING: None, other than personal. STATUS: Complete.

Toccata and Fugue for Harpsichord was written for Manette Lunde. First performance is planned for Fall of 1972 at UW-EC. The performance length is 12 minutes and it is in manuscript.

**Suite for Brass Quintet, Opus 41.**
FUNDING: None, other than personal. STATUS: Complete.

Suite for Brass Quintet is dedicated to Mr. George Briggs of Eau Claire. It is scored for 2 Tpt., 4 Tbn., 2 Tuba. The work has six movements. Performance length is 12 minutes and it is in manuscript.

**COLLABORATORS:** Nancy Rice, Manette Lunde

**Faculty Recital: Oboe and English Horn.**
FUNDING: None, other than personal. STATUS: Complete.

The recital was performed in the Fine Arts Center Concert Hall, Wednesday, Oct. 13, 1971. The program was selected to give a varied and interesting program. It included the following works: Concerto for oboe and piano in Bb Major by Karl Stamatakis, Sonatina for oboe and piano (Opus 39) by Ivar Lunde, Jr., Sonata for oboe and harpsichord in E minor by Francesco Geminiani, Sonatine No. 2 for English horn and harpsichord (from "Il pastor fido") by Antonio Vivaldi, Concerto for oboe and piano by William Alwyn.

**Lunde, Manette**

**COLLABORATOR:** Ivar Lunde

**Construction of an 18th century French Harpsichord using designs and parts furnished by Frank Hubbard, Harpsichord Maker, Waltham, Mass.**
FUNDING: None, other than personal. STATUS: In progress.

**Rice, Nancy**

**Piano Recital—April 18, 1971.**
FUNDING: None, other than personal. STATUS: Complete.

**Roll, Harle**

**COLLABORATOR:** Janet Carson

**Combination Creative art and music project involving 4th graders of the Campus School—UW-EC. This project will also be observed by Music Education students from the University.**
FUNDING: None, other than personal. STATUS: In progress.

**Major Student Research (for which you are an advisor)**

**Hilibrich, Dr. Paul**

**SUPERVISED STUDENT:** Robert Holquist

**An Analytical Study of the Choral Music of Arnold**

**Bax (1883-1953).**

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

This research is an investigation of the choral music of Arnold Bax, a twentieth century English composer. The research includes a study of biographical information, an analysis of textual sources and musical procedures, and presents a statement relative to the compositional style of Bax's choral music.

**Keeler, Ronald**

**SUPERVISED STUDENT:** Cynthia Cirkis

**Senior Recital**

**Scholze, Dr. Milton**

**SUPERVISED STUDENT:** J.T. Pingel


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

The purpose of this study was (1) to develop a guideline in secondary instrumental music for the supervising or cooperating music teacher and the Instrumental music intern teacher, and (2) to present a means of evaluating the role of the instrumental music intern teacher through experiences of practicing cooperating or supervising teachers.

**SUPERVISED STUDENT:** R.W. Rohrer

The Development of Festival Rules of the Wisconsin School Music Association.

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

The Wisconsin School Music Association and its predecessors have sponsored School Music Festivals since 1920. The purpose of this research was to trace the history of the Wisconsin School Music Association and the rules and regulations which have governed Wisconsin Music Festivals since 1920.

**DEPARTMENT OF PHYSICAL EDUCATION**

**Liaison:** Dr. S. Gurth

2. **Artistic Production, Show or Recital**

**Haro, Mary**

**COLLABORATORS:** Bill Meiser, Bob Scott

**Third Annual Gymnastics, April 16, 1972 at 2:00 p.m.**

**The Arne.**

FUNDING: Departmental. STATUS: In progress.

**DEPARTMENT OF PHYSICS**

**Liaison:** Dr. F. Schultz

1. **Research and Investigation**

**Anderson, J.C.**

**COLLABORATOR:** D.J. Ballanger

**Electronic Properties of Metals, Semi-Metals, and Semiconductors at Low Temperatures.**

FUNDING: Univ. Research Grant. STATUS: Complete.

A cryostat, an electromagnet, and some auxiliary apparatus were purchased to make it possible to measure electromagnetic properties of solids at low temperatures (-190°C). Measurements of Hall effect in germanium were made by students in an advanced laboratory course as a first use of this facility.

**Bellanger, Dr. Donald**

**COLLABORATOR:** Dr. J. Gerald Anderson

**Electronic Properties of Metals, Semi-Metals and Semiconductors at Low Temperatures.**

FUNDING: Univ. Research Grant. STATUS: Complete.

A cryostat, an electromagnet, and some auxiliary apparatus were purchased to make it possible to measure electromagnetic properties of solids at low temperatures (-190°C). Measurements of Hall effect in germanium were made by students in an advanced laboratory course as a first use of this facility.

**McGregor, Richard**

Installation, Adjustment and Calibration of Water and one half Geisinger Spectroradiometer, and Comparator-Densitometer.

FUNDING: Departmental. STATUS: In progress.
Schulte, Dr. Frederick
Interaction of Polarized Infrared with Solid Materials
FUNDING: Univ. Research Grant, Dependent
STATUS: In progress.

4. Dissertation Research

Bulbacher, Dr. Donald COLLABORATOR: Dr. Carl Baumgardner
The Effect of Plasma and Hole Current on the Optical Absorption of InGaP.
FUNDING: None, other than personal. STATUS: Complete.

The changes in absorption coefficient due to currents flowing in p-type indium antimonide were measured. Measurements were made in injecting and non-injecting samples, using polarized infrared radiation with photon energies from 0.52 to 0.6 eV. The injecting data showed several plasmon effects, while the non-injecting data agreed qualitatively with theoretical predictions.

Dinger, Ann
Structure and Evolution of Helium Stars.
FUNDING: Univ. Research Grant (Northwestern University).
STATUS: Complete.
The evolution of helium star models was computed in an effort to derive the possible state of certain hot stars that are observed to have no hydrogen in their atmospheres.

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

Scott, Summer COLLABORATOR: John C. Lombar
"Psychological Science for Teachers." A National Science Foundation-funded in-service institute for teachers of high school and Jr. High science.
FUNDING: Federal. STATUS: In progress.

DEPARTMENT OF PSYCHOLOGY
Director: K. Hellman

1. Research and Investigation

Babb, Raymond
Primary Personal Problems of College Students.
FUNDING: Foundation. STATUS: In progress.

Teacher-Centered Traditional vs. Student-Centered Unstructured
FUNDING: Other. STATUS: Complete.
The problem: An attempt was made to gain information concerning the "Teacher Method" of instruction (teacher-centered or student-centered) for a college course in Educational Psychology. The method: Two separate classes were taught in two different manners with appraisal before and after to determine differences using the C.L.E.P., M.T.A., and Abstract Reasoning scores. The data: In all three instruments, the student centered class scored a greater net increase. The conclusion: For Educational Psychology under this instructor, at the time of the study, the student centered method of class structure was "better" in dimensions measured.

Hildreth, Dr. James
Bloch's Law and a Temporal Integration Model for Simple Reaction Time to Light (continuation of thesis project).
FUNDING: None, other than personal. STATUS: In progress.

Johnston, Stephen COLLABORATOR: David Johnson
"The Effects of Other's Actions, Attitude Similarity, and Race on Attraction Toward Other.*
FUNDING: None, other than personal. STATUS: Published.

Thirty-two white college students participated in an experiment in which another person's race, the similarity of the other's attitudes and cooperation of the other in a two-person task was manipulated. The task was set up in such a way that the other person had to cooperate with the subject in order for the subject to obtain a $3.00 reward. The responses of the "other person" in the task, who was actually not present, were produced by the experimenter. The ratings of the assimilated Other before he participated with the subject in the task showed that subjects who perceived the other to have similar attitudes liked the Other more than did subjects who perceived the Other having dissimilar attitudes (MDO). The race of the Other did not affect liking, but when the other person had dissimilar attitudes, the white subjects expressed more attraction for the white Other than for the black Other. In addition, similar Others were expected to cooperate more than the task than dissimilar Others (MDO), and there was a significant positive correlation between expected cooperation and liking for the Other when similarity of the Other was held constant (p<0.01). The ratings obtained after the task was complete showed that Others who cooperated and thus facilitated the subjects goal attainment were liked significantly more than were Others who competed and thus frustrated the subjects goal attainment (p<0.01). There were no main effects for either attitude similarity or race after conclusion of the task. The results support the conclusion that when an Individual expects to interact with another person, the race of the Other, per se, is not as important as the degree of similarity of the other person's attitudes in determining attraction toward the Other. Further, support was obtained for the hypothesis that under conditions of expected interaction with another, an Individual is attracted towards a similar other because he expects him to cooperate, and thus assist in achiev-

Thurston, Dr. John COLLABORATOR: Dr. James Benning
Eau Claire County Youth Study—Phase IV.
FUNDING: Federal. STATUS: Complete.

4. Dissertation Research

Ceyley, William
Self-esteem as a Moderator of Response to Pay Inequality.
FUNDING: Iowa State University Research Grant.
STATUS: Complete.
College students participated in an experiment in which pay schedule and pay rate were varied and assessed self-esteem was used as a blocking variable. The results from equity theory were not supported. Post hoc interpretation of the data finds support only for expectation theory.
1. Research and Investigation

Bailey, Dr. Robert

Content of Special Television Documentary Programs, 1968-1972.

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

Peulter, Anne  COLLABORATOR: Edward Pickart

"Student Oriented vs. Content Oriented Teaching."

FUNDING: Other.  STATUS: Complete.

This is a research project completed by careful observation and analysis of technical instructor's teaching styles in the classroom. Content analysis was the tool used to measure the effect.

Staab, Dr. Wayne J.


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

Wolpert, Wayne


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

Besides the history of the Opera House itself and its performances and events held there, all other buildings where theatrical performances, movies, concerts, etc., were held are covered from 1820-1936. Appendix contains events and productions for each theatre or building.

5. Institutional Study

Wolpert, Wayne

"The Case for Eau Claire" (published in The Forensics, Jan., 1972, p. 3-6.)

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

This publication reviews historical background, the operation of the University Forensics Board, the student, administration, and community support of the program, and the directors philosophy of forensics.

7. Innovative Pedagogical Project

Sahlstrom, Dr. Lowell J.  COLLABORATOR: Dr. Wayne Staab

Noise and Man Workshop.

FUNDING: Departmental. STATUS: In progress.

Staab, Dr. Wayne

An Overhead Projection Presentation to Use with Basic Audiology

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

COLLABORATOR: Dr. Lowell Sahlstrom

Noise and Man Workshop.

FUNDING: Departmental. STATUS: In progress.

2. Artistic Production, Showing, or Recital

Benson, Wil

COLLABORATOR: Dr. Robert Bailey

Please to Remember -- An Original T.V. Production.

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

Please to Remember is a semi-documentary dramatization of the civil right murders in Mississippi in 1964. It was written and produced for television in 1970-71.

4. Dissertation Research

Hirsch, Virgile

Edith Head--American Costume Designer.

FUNDING: Other. STATUS: In progress.

Kruze, Robert

The Effects of the Experimenter on Stuttering During Self-Administered Time-Out Punishment.

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

Staab, Dr. Wayne  COLLABORATOR: Dr. William Altenstein

Comparison of Pure-Tone and Warble-Tone Thresholds.

FUNDING: None, other than personal. STATUS: In progress.
1. Research and Investigation

Stock, Louis
Preparation of Booklet--"Speaker's Bureau", WIS-EC
1971-72.
FUNDING: Departmental. STATUS: In progress.

3. Institutional Study

Carter, Mildred
History of the University of Wisconsin--Eau Claire
FUNDING: Departmental. STATUS: In progress.

Office of Institutional Studies
Salary Policy for Middle Echelon Non-Teaching Faculty.
FUNDING: Departmental. STATUS: Complete.
A survey of selected Mid-West Universities, copies of report available in DIS.

Office of Institutional Studies
Survey of Graduates of the School of Graduate Studies.
FUNDING: Departmental. STATUS: In progress.

Office of Institutional Studies
WIS-EC Cost Analysis Projects.
FUNDING: Departmental. STATUS: In progress.

Office of Institutional Studies
WIS-EC Credit Registration Projection.
FUNDING: Departmental. STATUS: Complete.
Results by department, available for use in DIS.

Office of Institutional Studies
University Factbook-Generation Distribution of Payee.
FUNDING: Departmental. STATUS: In progress.

Office of Institutional Studies
WIS-EC Follow-through Study -- Class of 1974.
FUNDING: Departmental. STATUS: In progress.

Office of Institutional Studies
Recording of Historical WIS-EC Degrees Granted Data.
FUNDING: Departmental. STATUS: In progress.

The GIS assisted the following departments in formulating the surveys.

Department of Chemistry
WIS-EC Student Follow-up Study -- Chemistry Graduates.
FUNDING: Departmental. STATUS: In progress.

Department of History
WIS-EC Student Follow-up -- History Graduates.
FUNDING: Departmental. STATUS: In progress.

School of Nursing
WIS-EC School of Nursing Student Follow-up Survey.
FUNDING: Departmental. STATUS: Complete.

Liver arginase levels were examined in adult sockeye salmon and compared to characteristics exhibited by the arginase found in higher animals. Results indicate that sockeye salmon arginase has a pH optimum of 9.5, is partially dependent on Mg²⁺ ions, and has a temperature optimum of 45° deg. C.


The attached X method used in conjunction with appropriately modified Y-chromosomes has been investigated and found to offer special advantages. The ease and rapidity with which it detects lethals in a small region of the X-chromosome make it a particularly attractive method, especially in those cases where cytological examination is required. Because the lethals detected can be carried in fertile states in both sexes they are a particularly valuable group of lethals for use in fine structure analysis. The system investigated offers both simplicity in lethal detection and possibilities for high resolution analysis of nature of mutational changes associated with lethal loci of a small specific region of the X-chromosome of Drosoelicula.

Lim, Dr. John K., Warren F. Rhiner, Mona L. Bollingbroke, "Complementation Pattern among Recessional Lethal Muclations in the 1A Region of Drosoelicula". Genetics, LVIII, 1971, pp. 339-349.

68 recessive lethals were induced by ethyl methanesulfonate in the region 1A to 1E34. The mutants were grouped into six subregions with Basof (1) 1 y ac, (2) 1 ac, DF(1) 260-1, DF(1) 28, and DF(1) 43a. Complementation tests were carried out in the same possible combinations between the lethals within each subregion. The following were represented in the region 1A to 1E34. At least four complementation groups were included in the deficiency Basof (1) 1 y ac, and at least two, three, five, and eight, respectively, and two complementation groups are in the region between the right break of Basof (1) 1 y ac, to 1E34, as numbered 180-2, 182-7, 181-7 to 1B10-13, 1B10-13 to 104, and 104 to 1E34, respectively. None of the 68 lethals studied was associated with a lethal change extending across more than one complementation region.


This text was written to serve students taking a conservation course for cultural enrichment purposes. It was not written for the student interested in conservation as a professional field. The major objectives of the text are to develop an appreciation of the role natural resources have played in promoting America's vitality and economic well-being and to provide insights into the techniques and policies by which these resources can be intelligently managed and utilized, and to foster a sense of the urgency for halting resource abuse and the deterioration of environmental quality.


No statistically significant differences in mortality were observed between five-week-old white Leghorn cockerels that had been surgically neurosectioned at two weeks of age and intact controls during an initial infection of cecal coccidiosis produced by 10,000 Eimeria tenella oocysts. Hemocritotics, growth, and mortality of five-week-old immune and nonimmune cockerels that had been neurosectioned as two-day-old chicks were not significantly different from those of their respective controls when infected or reinfected with E. tenella. Likewise, no significant differences were observed between five-week-old normally thyroidectomized cockerels and their intact controls during an initial infection of cecal coccidiosis produced by 40,000 E. tenella oocysts. Subtle differences in hematocrit values, growth and mortality suggested, however, that nine-week-old thyroidectomized chickens may have been more susceptible to initial infection produced by 40,000 E. tenella oocysts than intact chickens. Necropsy examination of intact survivors of an initial infection produced by 4,000 oocysts successfully resisted reinfection with 400,000 oocysts; nine weeks later the chickens were healthy. The immune of immune and nonimmune chickens increased significantly less than those of uninfected controls 30 days after inoculation with E. tenella oocysts.


An explanation of an innovative method of handling individual differences in the teaching of the advanced typewriting course.


A brief description of some of the features of the book was given along with suggestions for its use and future improvement.


Mechanism for the conversion of acetophenone (or benzaldehyde) to 1-phenylpropan-2,1,3-semidome (or phenyl) radial radicals is studied by electrolytic reduction in ninhydrin-formamide and the reaction is considered. The intermediate CH₂[CH(NH₂)CH₃] (CH₃) CH=CH₂X with X = (CH₃)₂N is implicated. The free cyclohexylaldehyde is apparently not a precursor of the semi-dome. The results of this rearrangement with x = alkyln groups are suggested. 2,2,5,5-Tetramethylcyclohexane ketone at 50° rapidly decomposes to yield 3,3,5,5-tetramethylcyclohexane, 1,3-semidome in tetrahydrofurin solution. This novel carbonylation reaction is presumed to involve carbon monoxide reacting with the ketone, car- or K⁺CO₂, transferring with the ketone. Decomposition of ketals to yield semidomes in tetrahydrofurin solution apparently occurs only in the case of highly strained ketones.

Egan, James, "Economic Feasibility of a Proposed New Bank in the London Square Area of Eau Claire, Wis.", Public Hearing Records. March, 1971. (Hearing conducted by the Wisconsin Commissioner of Banking at Madison, Wis.).

Part I of this 45-page report monograph details the growth of the Eau Claire economy during 1960-70 and the changes in the structure of that economy. Based on this analysis, projections of future growth are used to estimate future bank deposit growth through 1975 from the relationship of that growth with new credit purchases and nonbank financial entities. Part II deals with the specific locational advantages—trains, railroads, business accounts, and mortgage loan potential, and the marketing of the Bank of America's corporate offices in Madison, Wis., as compared to the Bank of America's corporate offices in Madison, Wis.


The article was a comment on a previously published article related to hard-core unemployment. The author had the opportunity to comment on articles related to hard-core unemployment, and the author had the opportunity to comment on articles related to hard-core unemployment.
I criticized the author for not defining the term 'hardcore' more precisely. I contend that some of his conclusions would almost certainly not be true with a rigorous definition of hardcore, that is, a definition much narrower than the original article used, which is best characterized as disadvantaged.

DEPARTMENT OF ELEMENTARY EDUCATION


A comprehensive and chronological overview of the concept of individually guided education and the multiunit school (1953-1965) which began its development at the Wisconsin Research and Development Center in 1953 and is presently functioning in more than 600 schools in 43 states. The organizational plan encompassing team teaching, differentiated staffing, nongradedness and decision-making at the building level is described as an instructional model for IGE. This instructional model is an extended version of objectives, assessment, individualized learning program and postassessment. The procedures and sources of materials for implementation of the concept in a school are also described.


A detailed description of the Instructional Programming Model for Individually Guided Education (IGE) using the Wisconsin Design Skills Development materials to illustrate the model. The model for IGE contains sixty sequential steps for programming, and these steps are basically: (1) state general educational objectives; (2) estimate the range of specific objectives; (3) assess the level of achievement; (4) set specific instructional objectives for each child; (5) plan and implement the learning program for each pupil's attainment of objectives. The article also describes the results of research utilizing the IGE model along with the Wisconsin Design reading materials.


A description of concept selection procedures, concept analysis, and item preparation for the test items presented in Working Paper No. 57. Complete analysis are prepared for 30 concepts - 10 in each of the areas of biological, earth and physical science. The analysis for each concept includes definitions, subordinate concepts, coordinate concepts, basic attributes, relationship with at least one other concept and examples and nonexamples of the concept (in words and, if plausible, in pictures).


This paper contains procedures for preparing items for 30 science concepts - 10 each in biological science, 10 in earth and 10 in physical science. Twelve items were written for each concept according to a table of specifications dealing with basic attributes, examples, relevant and irrelevant attributes, definitions, superordinate concepts and a principle relating the given concept and another concept. The paper thus presents a collection of 360 science items with their statistical reliabilities. (A similar number of concept items were also written in the areas of language arts, mathematics, and social studies by other authors.) - Companion to Working Paper No. 57.

DEPARTMENT OF ENGLISH


This is a study of the problem of character relationship and the symbolic meanings of the characters in the story.


In the face of society's polarization, Gaines's characters demonstrate a human dignity and pride. The first novel, Father's War (1966), reflects the historical degradation of a system based on color but transcends it. The author's search for human dignity and, when this is lacking, acknowledges the salvation of pride. Caught in the movements of the changing times, his characters make commitments, the results often unpredictable. The world of Gaines's characters values the independence of the man spirit to survive and to change.


The concern of this bibliography is prose fiction, 1900-1970, mainly novels, with some brief notation of the short story. These novels were born, or grew up in the West Indies. Classification according to Island. In most instances, indicates the writer's written language. A brief introduction suggests further distinctions in subject matter, urban and rural, insular and continental, traditional in the sense of plantocracy and revolutionary in the idea of a growing self consciousness and self-determination: or an approach in style and form. Historically, a West Indian literature did not exist. Thus, the West Indian novel is a new phenomenon and literary criticism in the United States concerning these authors is in its infancy. The best sources of West Indian materials are the Library of Congress, the University of Florida at Gainesville, Tulane University, the University of Puerto Rico, and the University of the West Indies.

DEPARTMENT OF FOUNDATIONS OF EDUCATION


This article presents a summary of an analysis of selected components of the evaluation program sponsored by the Association for the Evaluation of the Elementary School. The analysis was a basis for a response to the long-term evaluation of the A.E.E.S. program. The results of the evaluation program were presented to the A.E.E.S. program and (3) the basic format of the self-evaluation aspect.

DEPARTMENT OF GEOGRAPHY


A description and evaluation of this complete bibliography on American agricultural history, stressing its value to all who are interested in agriculture and agrarian political activity.

DEPARTMENT OF JOURNALISM
Liaison: J. Grossman


This is a book of poetry of which 400 copies were sold in first printing.

DEPARTMENT OF LIBRARIES
Liaison: R. Bell


These cumulative author, title, and subject indexes include all articles, book reviews, obituaries and letters to the editor appearing in The Wisconsin Sociologist from 1960 through 1971. A variation of the ALC index form the basic structure of the subject index.

DEPARTMENT OF MATHEMATICS
Liaison: S. Tannen


One experiment with two replicates was carried out to assess the relative effects of intermediate guidance (guided discovery) and maximal guidance (expository teaching) when achievement and transfer were measured by a post test and a retention test. Fourth, sixth, and eighth grade students were taught selected mathematical concepts presented in the form of programmed textbooks. The results indicate that there is a distinct ordinal relation on the criterion measures for ability groups within each grade level. No reliable differences were found between the intermediate and maximal guidance treatments.

DEPARTMENT OF MUSIC
Liaison: R. H. Schinke


The article explains the various techniques for basic repairs of woodwind instruments. It is a guide for band directors and students alike, and it deals with how to fasten and change loose pads; how to prevent leaking pads; how to prevent pad from sticking; the article also explains how to change broken springs and how to repair and prevent instruments from cracking. It also gives advice on how to repair bent reeds, loose screws, and poor intonation.

DEPARTMENT OF PHYSICS
Liaison: Dr. P. Schultz


A one-manual harpsichord built by Hieronymus Albrecht Mass in 1731, now located in the Kunsthistor. Museum, Oslo, Norway, is described. Acquired by the museum in 1899, it was never restored and is not playable. The builder's inscription appears on the soundboard, refuting the claim of Raymond Russell that no inscription was visible. The disposition of the harpsichord is B, G, D, F, and B. The style and size of the instrument is given together with a description of the Chinese lacquer paintings which decorate the case inside and out. Five photographs are included, one of which is of the harpsichord. Both photographs and specifications are the result of personal inspection by the author.


The experiments described in the article dealt with the introduction of basic percussion instruments and techniques to elementary children. (i.e. 5th and 6th grade.) Briefly, the method used was twofold in that both the shaker drum and the tambourine were introduced, taught and practiced simultaneously and special emphasis was centered on the 'matched grip' technique. The number of students who showed: (1) The students had made excellent progress in grasping the basic techniques, (2) The matched grip transferece was highly successful and much preferred.


This project was conceived as a study of a selected number of composers and their music for the percussion ensemble. The composers and compositions were chosen for their originality and content. Each of the composers involved in this project was an important factor in the development of percussion music in the 20th century. Their music has influenced their contemporaries in the rudiments and commercial percussion ensemble areas as well as those in the art music of 'serious' percussion ensemble music. The composers chosen were and are innovators of the first order and an attempt was made to show through a chronological presentation how the innovations of each man related in many ways upon the work of his predecessors. No attempt was made to outline the development of the percussion ensemble or to include all of the composers and/or compositions that spurred the percussion awakening in the 20th century. This study has led me to conclude that the distinctly different ideals or streams of thought run as one to form the 'serious' percussion ensemble music of the 20th century.

The works of these men hold an intellectual appeal. Cowell and Hovhaness represents the right or ethnic approach. Russell and Childs act the role of an assimilator. Both Russell and 'left-learning' Childs have drawn from each of the other two categories, yet their work is original and their third or buffer zone category is meaningful.

Roll, Harle E., Janice Totzke, "Cornerstone Column", The Wisconsin School Musician, XLI, 2, December, 1971, p. 34.

The purpose of this article (as a reprint from the Summer Times--UW-EC publication) was to bring the use of University of Wisconsin Music (UW-EC) symphonic band as live sources of listening lessons for elementary school children throughout the state of Wisconsin to the attention of music educators throughout the state. The interest in music is promoted from childhood through adulthood when concert attendance begins as a directed activity during a person's early years.


The linear superposition of elliptical lines by patterns formed by signals of two rationally related frequencies produces some unexpected and rather spectacular oscillatory patterns. The resulting patterns possess an n-fold radial symmetry where n is both the ratio of the source frequencies in lowest terms. An attractive feature of the demonstration is its proven ability to catch the interest of current or prospective physics students.

The purpose of the work was to measure changes in absorption coefficient as a function of the incident photon energy, when currents flow in p-type indium antimonide. Since both non-injecting and injecting samples were used, various effects due to carrier (hole) energies and changes in the number of holes were expected and observed, in addition, several plasmon effects were observed and analyzed for the case of injected current carriers at current densities of sufficient magnitude to cause self-magnetic pinning of the plasma. Measurements were made using polarized infrared radiation with photon energies from 0.55 to 2.05 eV. All samples had an np or np/n homogeneity of 5 x 10^{-7} cm^{2} at the operating temperature of 89K. The injecting data shows the direct observation of plasmons in semiconductors. The non-injecting data agrees with the theory of Bean and Wodduff.

DEPARTMENT OF PSYCHOLOGY

Liaison: K. Hallman


Teachers of third-, sixth-, and ninth-graders nominated 602 of their students as consistently behaving in socially approved ways and 558 as consistently displaying aggressive-disruptive behavior in the classroom. Analyses of correlations were utilized with intelligence as the contact and behavior, grade, sex, and home location as the independent variables. The results indicate clearly that the children whose aggressive classroom behavior was aggressive-disruptive performed at significantly lower achievement levels than their socially approved peers after a five-year period. Specifically, the aggressive children were far lower than their approving counterparts in both grades, and in STEP scores in reading, writing, social studies, science, and mathematics. Implications of these findings for counselors and teachers are explored.


This article describes the research development and validation of a projective psychological instrument known as the Situation Exercises. This device is designed to enable users to gain an understanding of aggressive-disruptive children in the classroom, included are four frustrating circumstances that a child might encounter. The exercises were utilized with third, sixth, and ninth graders and for boys and girls in each grade. Two groups were utilized in scoring the children’s responses, one yielding a qualitative “Adaptive Score” and the other a qualitative measure of three kinds of needs: press, press, and inner psychological states. Preliminary evidence is presented regarding scoring reliability and validity. Also explored was the utility of the instrument in aiding teachers and counselors in developing a broader view of the aggressive-disruptive youngster from which preventive and therapeutic procedures might be derived.

Thurston, Dr. John R., Dr. James J. Benning, Dr. John F. Feldhusen, "Problems of Prediction of Delinquency and Related Conditions over a Seven-Year Period", Crimeology, 1A, 2 and 3, August-November, 1971, pp. 159-165.

This paper identifies and discusses major needs, shortcomings, and errors of research involving the prediction of delinquency and related conditions of personal and social maladjustment, health and welfare problems, and inferior achievement in school. Also described are elements of the Law En trance County Youth Study, the design of which attempted to deal with research problems commonly associated with these areas of investigation. Longitudinal studies are favored over the usual concurrent and cross-sectional studies so as to provide a basis for substantive conclusions regarding the causes of delinquency. The need for true longitudinal research in this area is stressed, and provision for assessment of interrelationships among predictors is advocated. Many analyses examine single relationship of one predictor variable to another, and this approach is time-consuming and yields findings that are not easily nor usefully interpreted. Contributions of new predictors of delinquency should be evaluated not by themselves, but rather in terms of their ability to add to predictive power of established measures. Several problems involving delinquency research could be resolved through the use of complex statistical procedures such as multiple regression analysis, multiple discriminant function analysis, principal components analysis, and canonical factor analysis.

DEPARTMENT OF SPECIAL EDUCATION

Liaison: Dr. E. Lachner


The philosophy of early sense realism is reviewed. From this, a philosophy of education for inefficient learners has been drawn. A developmental psychology of Piaget and Gesell is used as a basis for establishing psychological principles of learning for inefficient learners. Some basic procedures for classroom management are presented. Discipline as a prerequisite to learning is discussed. Several diagnostic tools are described for the teacher who needs help in locating the child’s special problem, and many remedial techniques are listed. Pre-school screening for early identification is discussed and some instruments are reviewed. A junior kindergarten is suggested for amelioration of learning problems. An appendix is provided as a source list for the teacher who is interested in securing catalogs of available materials and supplies.

DEPARTMENT OF JR. HIGH EDUCATION

Liaison: Dr. A. Timmons


Student teachers often express their need for a practical, readily available reference text, one useful for solving the varied problems encountered during student teaching assignments. With such a need in mind, this volume contains a collection of articles intended to serve as a source book for secondary student teachers, whether used alone or as a companion volume to other materials. It should also be of special value in stimulating discussion in student teaching seminars. The book’s organization reflects the major problem areas encountered by student teachers as they progress through their student teaching assignments. Thirty-five articles, written by experts in the field of secondary education, are divided into eight chapters and presented in a format directly applicable to the typical student teacher program. These chapters cover such vital topics as "Understanding Today’s Youth" and "Assessing Educational Progress." All chapters are tied together by introductions and followed by a selected bibliography which allows the reader to further pursue topics of special interest to him. A convenient cross-reference index to the questions, concepts, and authors is provided by the index at the end of the volume.

DEPARTMENT OF SOCIOLOGY

Liaison: Dr. M. Earnest


This research is directed toward the social psychological aspect of criminal self-conception in females. It is designed to gather empirical support for the practical propositions in self-reference group theory. An attempt is made to explore and explain the presence or absence of a criminal self-conception among adult female offenders in a state institution. The data for this 1964 study of female inmates was obtained from 123 lunatic asylum inmates from the available adult female population of 131, at the Wisconsin Home for Women, at Taycehadah, Wisconsin. The Statistical procedure, Chi square is used to test for significance, and the square root is used to measure the strength or degree of relationship present. Two hypotheses are reported in this paper. The supports the first hypothesis at the p = .05 level that inmates who have reference groups whom they perceive as criminals think of themselves as criminals. A x2 of 13.050 is significant at the .01 level. The data supports hypothesis two with a x2 of 14.56 which is significant at the .001 level. In sum, those women who view themselves now as criminals also tended to have a criminal self-conception on commitment; and those who did not view themselves as criminals on commitment still tend to view themselves as non-criminal.

The author indicates that summaries, can be utilized more fully in sociological theory seminars. Franklin Henry Giddings' summary of Herbert Spencer's sociology is cited as an example of a summary which can be treated within an instructional process that is outlined as 1) beginning with questions for which refined perspectives in sociology provide some answers, 2) a study of the classical work that presents a perspective, 3) a concise summary or classroom exercise, 4) instructional questions to review and explore items and proposals in the summary, and 5) a concluding phase that provides for organizing one's responses to the content and general principles associated with the perspective.

DEPARTMENT OF SPEECH

Advisor: Dr. W. Paige


Practically nobody sets out to be misunderstood. But, sometimes when people talk with each other, misunderstandings occur. This frequently seems to be the case when highly trained and differently trained professionals get together to do something. Such breakdowns in communication are sometimes very common in multi-discipline settings (MDS) such as school systems, hospitals, and some university centers. And, it seems to me that today more speech therapists tend to be working in multi-discipline settings than ever before. In fact, some people say that the multi-discipline setting is the future alternative to professional isolation. With these matters in mind, this article explores a hidden challenge for the speech therapist working in a multi-discipline setting—the challenge of talking with people (TMP).


The article treats the following points: (1) adult reading and learning diagnosis were contrasted with that more appropriate for working with young children, (2) a learning style-centered approach was suggested involving introspective analysis, and (3) the strengths of the Smith Learning Style Test in particular were cited. (4) The use of this instrument for diagnosis and prediction was explored in some detail, and (5) implications for ameliorative practices were touched upon. Procedures for diagnosis and prediction of reading performance at the adult level are indeed different from those used at the younger reader level. Procedures should combine encouragement of the adult's capitalizing upon his characteristic strengths with simultaneous attempts at compensating for his weaknesses.


The purpose of the questionnaire survey was to ascertain the current status of marble-tone in audiometers. Of 29 audiometer manufacturers, 24 replied (82.7%) representing 9 different countries. The results showed that only 6 manufacturers (21.4%) currently offer the marble-tone stimulus. Specific information was sought from those currently offering marble-tone or contemplating its inclusion in the near future. The replies indicated that the frequency deviation varies from approximately 0.2% above the base frequency to as high as 10% around the base frequency. The modulation rate ranges from 2/sec to as high as 10/sec. Audiometer manufacturers accomplish the marble-tone in essentially two different ways: either by modulating around the base frequency or above the base frequency, with the wave form of the modified signal either sinusoidal or rectangular. The signal is not calibrated to any single accepted, current standard. With respect to its intended use, the marble-tone is most often suggested for threshold measurements in sound-field or under earphones. There is a dearth of research concerning the most appropriate marble-tone stimulus parameters to be employed in threshold determination. This problem must be resolved before marble-tone audiometry can seriously be considered as part of the audiologist's clinical armamentarium.


At the request of Pi Kappa Delta, national speech organization, the author was asked to write an explanation account on the sustained strength and quality which resulted in this university's qualifying the largest number of new members for the national speech organization. The publication reviews the history of the institution, the plan of operation under the direction of a unique forensics board of control of nine members, the student support of the program was explained, the university administration's support of the program was outlined, and the community cooperation was a third factor analyzed in this publication, which it concludes with something of the author's philosophy of forensic education and what it should do for the students at the university.
Non-Departmental Faculty


The study tested whether a change in arousal level was associated with increased field independence observed in alcoholics who were "dropping out". Chronic alcoholic inpatients were tested several times during a two-month treatment program on the Rod and Frame Test, a measure of field dependency, and several measures of physiological and emotional arousal. A significant change toward greater field independence was found, but arousal level did not change accordingly. The conclusion reached was that the improvement in verticality demonstrated in alcoholics as they dried out could not be attributed to a change in arousal level, and was more likely a result of restored equilibrium and reliance on external cues.


This article describes the use of a Data Processing Center five-year plan developed in 1966 to develop order and systems from a two-man unit record shop to a multi-programming time sharing computer facility capable of taking care of the computing needs for the entire WSU-EC campus. The conventional approach would have been to go to two or more small computers for the campus, and we would not have had the power or flexibility to process large academic, research or administrative jobs. The system chosen was a Burroughs 3500 computer. Student jobs are handled through a high speed terminal which is located where most of the students are taking classes which eliminates the need for them to go across campus to get their jobs processed. Comprehensive reports are given to instructors to show them which jobs each student is processing and whether they are having problems and so forth. Future plans call for installing CRT's in every administrative office and teletypes for students to use in processing on-line BASIC programs (seven of these are now installed). The five-year developmental plan received 100 percent support of the university administration.


This article describes the reasons for the development of a computer utility on the Wisconsin State University—Eau Claire campus. Rising costs, finite resources, explosive growth in enrollment (faculty and staff), plus a growing need to provide more computer power on campus dictated the need for the utility. The full facilities of this utility could at times be used by Instructional, research or administrative users to process large jobs that couldn't be run on smaller systems. Some of the requirements of a computer utility were: Self-managing with a powerful operating system; be able to share its resources between Instructional, research and administrative jobs so that all three could use the computer at the same time; make access to the computer users easier through the use of terminals; the major programming languages (COBOL/Fortran/Assembler/BASIC). The system must be at a cost WSU-EC could afford. The system chosen was a Burroughs B3500 for the above reasons. Students access the computer through remote devices located where the action is (building where most of the students are located). Future plans call for further development of a campus M15 system that would allow access of student, faculty and other files through CRT's and heavier use of high and low speed terminals by students.