Research & Scholarly Achievements

Volume 5
July 1, 1985 — June 30, 1986

University of Central Florida
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</tr>
<tr>
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<td>105</td>
</tr>
</tbody>
</table>
1. Introduction

This publication is the fifth annual summary of scholarly activities at the University of Central Florida. It covers the period from July 1, 1985 to June 30, 1986. It is intended that this report highlight the contributions to scholarship by the faculty during this period.

It is clear that this listing cannot be complete in the sense of providing a comprehensive compilation of all of the efforts expended during that period. Research endeavors do not begin, nor do they end, on a specific date. Much of the work reported here was begun before July 1, 1985. Much of the work done during this year will be formally reported after June 30, 1986.

Classroom teaching is often a scholarly activity. Yet, we know of no totally satisfactory way of evaluating its scholarly content. A variety of other faculty activities, many of which have a scholarly aspect, have been designated as service activities and thus have been excluded.

A number of other worthwhile (and often scholarly) activities have been excluded from the first five sections of this report by the unanimous decision of the Faculty Committee which set up the original guidelines. These exclusions include: professional consulting, journal reviews, holding office in a national association, chairing meeting sessions, workshops, newsletters, copyrights, and product development. A rule of thumb used for inclusion was that the written, or oral, scholarly activity be prepared for an audience of professional peers on a subject in one's area of professional expertise. However, many of these worthwhile activities have been incorporated in the last section, "Other Scholarly Work."

At first glance, performances—whether they be an artist's exhibit, a musician's performance, or a dramatic work enacted on a stage—do not fulfill this criterion of peer review, since the bulk of one's audience is the general public. However, it is the viewpoint of the Committee on Publications that in order to be invited for such a performance, one has to have been evaluated and judged by one's peers before exposure to a general audience. It is for these same reasons that any such performance taking place at the departmental level on the UCF campus and limited only to University Personnel should be excluded.

Finally, in the area of Grants and Contracts it is self-evident—especially to those who have applied and not received funding—that there is a major component of peer review involved.
2. Five Year Summary

As UCF continues to develop, scholarly activity by its Faculty continues to increase. Since enhanced scholarly activity is presumed to indicate a maturation of both UCF and its Faculty, and since this marks the fifth anniversary of the publication, Research and Scholarly Activity, it seems doubly appropriate to stop and to take an accounting of these changes.

Attached is a graphical representation and the supporting data from which the curves were generated. The data is taken from the first five volumes of "Research and Scholarly Activities," the annual chronicle of research at UCF. That series is a compilation taken from the annual reports of the various Colleges. The College data is subjected to a more rigorous and stringent set of criteria (set up by a representative Faculty Committee) and the end result is presumed to be representative of the best efforts of the UCF Faculty.

In a broad sense, the graphs are one indication of the progress of UCF in going from a school with a low research profile to a University in which research is becoming a significant (if not yet major) factor. The most heartening aspect of the graphs is that all show a pronounced positive slope indicating that the level of scholarly activity at UCF has increased and is continuing to increase.

The graphs are restricted to those activities which involve an element of peer review. Thus the category of "Other Scholarly Activities" does not have a representative graph. However, even this category has shown a significant increase over the four-year period going from 118 in 1981-1982 to 164 in 1985-1986. Finally, a cruder (but impressive, nevertheless) statistic supporting these facts is that the number of pages in volume five are more than double those in the original book.

For those activities shown, the overall increases are as follows:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Refereed Publishes</td>
<td>109</td>
<td>379</td>
<td>248%</td>
</tr>
<tr>
<td>Books</td>
<td>13</td>
<td>32</td>
<td>146%</td>
</tr>
<tr>
<td>Presentations</td>
<td>351</td>
<td>449</td>
<td>28%</td>
</tr>
<tr>
<td>Grant Monies</td>
<td>$5.1 million</td>
<td>$8.5 million</td>
<td>67%</td>
</tr>
</tbody>
</table>
SCHOLARLY ACTIVITY AT U.C.F.

PRESENTATIONS AT A NATIONAL MEETING

PEER-REVIEWED ARTICLES

CREATIVE ACTIVITIES

PUBLISHED BOOKS

YEAR

NUMBER
### TABLE 1.

#### Published Books

<table>
<thead>
<tr>
<th></th>
<th>81-82</th>
<th>82-83</th>
<th>83-84</th>
<th>84-85</th>
<th>85-86</th>
</tr>
</thead>
<tbody>
<tr>
<td>A &amp; S</td>
<td>9</td>
<td>4</td>
<td>8</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>B. A.</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>9</td>
<td>7</td>
</tr>
<tr>
<td>Educ</td>
<td>1</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Eng</td>
<td>--</td>
<td>2</td>
<td>6</td>
<td>5*</td>
<td>6</td>
</tr>
<tr>
<td>Health</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>1*</td>
<td>--(1)</td>
</tr>
<tr>
<td>Other</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>13</td>
<td>15</td>
<td>24</td>
<td>35</td>
<td>32</td>
</tr>
</tbody>
</table>

*co-authors

(1) from FSEC

### TABLE 2.

#### Peer-Reviewed Journal Articles

<table>
<thead>
<tr>
<th></th>
<th>National/International + Regional/State + Proceedings</th>
</tr>
</thead>
<tbody>
<tr>
<td>A &amp; S</td>
<td>42+7 = 49</td>
</tr>
<tr>
<td>B. A.</td>
<td>15+2 = 17</td>
</tr>
<tr>
<td>Educ</td>
<td>8+5 = 13</td>
</tr>
<tr>
<td>Eng</td>
<td>21+2 = 23</td>
</tr>
<tr>
<td>Health</td>
<td>6+1 = 7</td>
</tr>
<tr>
<td>FSEC</td>
<td>(*)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>109</td>
</tr>
</tbody>
</table>

*Data not collected

### TABLE 3

#### Presentations at National/International and Regional/State Meetings

<table>
<thead>
<tr>
<th></th>
<th>81-82</th>
<th>82-83</th>
<th>83-84</th>
<th>84-85</th>
<th>85-86</th>
</tr>
</thead>
<tbody>
<tr>
<td>A &amp; S</td>
<td>68+80</td>
<td>52+65</td>
<td>117</td>
<td>48+72</td>
<td>120</td>
</tr>
<tr>
<td>B. A.</td>
<td>13+14</td>
<td>27</td>
<td>35</td>
<td>19+34</td>
<td>63</td>
</tr>
<tr>
<td>Educ</td>
<td>15+30</td>
<td>45</td>
<td>60</td>
<td>19+33</td>
<td>52</td>
</tr>
<tr>
<td>Eng</td>
<td>57+19</td>
<td>85</td>
<td>87</td>
<td>39+13</td>
<td>52</td>
</tr>
<tr>
<td>Health</td>
<td>4+6</td>
<td>--7</td>
<td>7</td>
<td>1+12</td>
<td>13</td>
</tr>
<tr>
<td>FSEC</td>
<td>-----</td>
<td>1+1</td>
<td>2</td>
<td>24+11</td>
<td>35</td>
</tr>
<tr>
<td>Other</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>306</td>
<td>334</td>
<td>325</td>
<td>420</td>
<td>449</td>
</tr>
</tbody>
</table>
### TABLE 4

**Creative Works**

<table>
<thead>
<tr>
<th></th>
<th>81-82</th>
<th>82-83</th>
<th>83-84</th>
<th>84-85</th>
<th>85-86</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art (Exhibits)</td>
<td>20</td>
<td>22</td>
<td>25</td>
<td>31</td>
<td>35</td>
</tr>
<tr>
<td>Music (Performances)</td>
<td>50</td>
<td>50</td>
<td>143</td>
<td>78</td>
<td>122</td>
</tr>
<tr>
<td>Theater</td>
<td>5</td>
<td>2</td>
<td>1</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>Communication</td>
<td>--</td>
<td>4</td>
<td>--</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>75</td>
<td>78</td>
<td>169</td>
<td>121</td>
<td>167</td>
</tr>
</tbody>
</table>

### TABLE 5.

**Sponsored Research Funds Generated**

<table>
<thead>
<tr>
<th></th>
<th>81-82</th>
<th>82-83</th>
<th>83-84</th>
<th>84-85</th>
<th>85-86</th>
</tr>
</thead>
<tbody>
<tr>
<td>A &amp; S</td>
<td>818,369</td>
<td>738,861</td>
<td>589,390</td>
<td>1,217,206</td>
<td>1,128,878</td>
</tr>
<tr>
<td>B. A.</td>
<td>267,067</td>
<td>187,154</td>
<td>205,316</td>
<td>516,307</td>
<td>490,156</td>
</tr>
<tr>
<td>Educ</td>
<td>572,785</td>
<td>308,127</td>
<td>487,832</td>
<td>457,815</td>
<td>291,606</td>
</tr>
<tr>
<td>Eng</td>
<td>1,301,473</td>
<td>1,355,441</td>
<td>1,765,750</td>
<td>1,156,654</td>
<td>903,050</td>
</tr>
<tr>
<td>Health</td>
<td>93,413</td>
<td>11,048</td>
<td>5,000</td>
<td>20,000</td>
<td>2,000</td>
</tr>
<tr>
<td>FSEC</td>
<td>463,888</td>
<td>1,978,393</td>
<td>1,441,294</td>
<td>1,181,667</td>
<td>554,342</td>
</tr>
<tr>
<td>State</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>250,000(^a)</td>
<td>1,041,627(^b)</td>
</tr>
<tr>
<td>Misc.</td>
<td>1,588,554</td>
<td>1,822,102</td>
<td>2,502,569</td>
<td>2,518,891</td>
<td>4,098,826</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$5,105,549</td>
<td>$6,401,126</td>
<td>$6,997,151</td>
<td>$7,318,540</td>
<td>$8,510,485</td>
</tr>
</tbody>
</table>

\(^a\) Institute for Simulation and Training  
\(^b\) Institute for Simulation and Training, and the Center for Research in Electro Optics and Lasers
3. Organization

The Faculty Publication Committee together with the Graduate Dean have set up the following guidelines for the classification of the scholarly activities to be included in this publication.

I. Publications
   A. Books and Monographs
   B. Articles, Peer-Refereed
      1. International or National Journals
      2. Regional or State Journals
   C. Proceedings

II. Creative Work - Art, Music, Theatre, Other

III. Presentations
   A. Before an Audience of Peers at a Professional Meeting
      1. International or National Meetings
      2. Regional or State Meetings
   B. Seminars Before an Audience of Peers - Invited by a University, College or Department, or invited by a group of professional peers.

IV. Grants and Contracts
   A. Externally Funded
   B. Internally Funded

V. Other Scholarly Work - Work in this category need not necessarily have been subjected to peer review.

4. Format of entries--please follow the format of the examples cited below.

BOOKS AND MONOGRAPHS

Authors...(last name, initials [all UCF faculty have entire name in caps])
Book title...(capitalized and underlined)
Publisher information...(city, state: name of company)
Book information...(year of publication, total number of pages)

Example

ARTICLE IN A PROFESSIONAL JOURNAL

Author...(last name, initials [all UCF faculty have entire name in caps])
Title of article...(in quotation marks)
Journal name in its entirety...(underlined, no abbreviations or acronyms)
Volume number...(underlined) followed by issue number, if any (in parentheses).
Actual page numbers in journal on which article begins and ends
Year published...(in parentheses).


PROCEEDINGS

Author...(last name, initials[all UCF faculty have entire name in caps])
Title...(in quotation marks)
Volume...title should begin Proceedings of ...(no abbreviations and entire title underlined)
Year published...(in parentheses).

Example


CREATIVE WORK

Exhibit

Artist...(last name entirely in caps, initials)
Type of show....(group exhibit, one-man show, etc.)
Title...(in quotation marks)
Location....(specific location, city, state [use 2-letter abbreviation])
Date....(month, beginning day-final day, year, no abbreviations)

Example


Performance

Artist....(last name entirely in caps, initials)
Type....(performance, concert, recital, etc.)
Location....(specific location, city, state [use 2-letter abbreviation])
Date....(month, beginning day-final day, year, no abbreviations)
Example

LESKO, E.

PRESENTATION AT A PROFESSIONAL MEETING

Authors....(last name, initials [if UCF faculty, entire name should be in caps])
Title of talk....(in quotation marks)
Occasion....(professional meeting at which the talk was presented)
City and state....(use two-letter abbreviations for state)
Month and year of meeting....(no abbreviations for month)

Example

BOOKS AND MONOGRAPHS
COLLEGE OF ARTS AND SCIENCES

COMPUTER SCIENCE


HISTORY

SHOFNER, J. H. Jackson County Florida: A History (Marianna, FL: Jackson County Heritage Association), 1985, 627 pages.

MATHEMATICS


SOCIOLOGY AND ANTHROPOLOGY


COLLEGE OF BUSINESS ADMINISTRATION


COLLEGE OF EDUCATION

EDUCATIONAL SERVICES


INSTRUCTIONAL PROGRAMS


COLLEGE OF ENGINEERING

CIVIL ENGINEERING


INDUSTRIAL ENGINEERING

HOSNI, Y., Development of Educational Software, (Arabic), (Kuwait: Al-Alamia Co.), 1985, 204 pages.


MECHANICAL ENGINEERING


FLORIDA SOLAR ENERGY CENTER


ARTICLES

National or International Professional Journals
Peer-referred
COLLEGE OF ARTS AND SCIENCES

ART


BIOLOGICAL SCIENCES


CHEMISTRY


GUPTON, J. T., Idoux, J. P., Liotta, D., DeCrescenzo, G., Colon, C., Dukersherer, D., Baran, D. and Novick, S. "Regioselective Fluoroalkoxylation and Polyfluoroalkoxylation of Aromatic and


COMMUNICATION


FEDLER, F. E. "Mrs. O'Leary's Cow and Other Newspaper Tales About the Chicago Fire of 1871," American Journalism, III, 24-38, (1986).


COMPUTER SCIENCE


ENGLISH


FOREIGN LANGUAGES


HISTORY


HUMANITIES, PHILOSOPHY AND RELIGION


MATHEMATICS


PHYSICS


POLITICAL SCIENCE


PSYCHOLOGY


PUBLIC SERVICE ADMINISTRATION


SOCIAL WORK


STATISTICS


COLLEGE OF BUSINESS ADMINISTRATION


COLLEGE OF EDUCATION

EDUCATIONAL FOUNDATIONS


EDUCATIONAL SERVICES


INSTRUCTIONAL PROGRAMS


COLLEGE OF ENGINEERING

CIVIL ENGINEERING


COMPUTER ENGINEERING

KLEE, H. I., "Comparison of a Block Oriented and Equation Oriented Continuous Simulation Language," Simulation at the Frontiers of Science, 105-109, (1986).


ELECTRICAL ENGINEERING


INDUSTRIAL ENGINEERING


MECHANICAL ENGINEERING


COLLEGE OF HEALTH


FLORIDA SOLAR ENERGY CENTER


ARTICLES

Regional or State Professional Journals
Peer-referred
COLLEGE OF ARTS AND SCIENCES

ART

BIOLOGICAL SCIENCES

COMMUNICATION

ENGLISH

HISTORY

PHYSICS
POLITICAL SCIENCE


PUBLIC SERVICE ADMINISTRATION


COLLEGE OF BUSINESS ADMINISTRATION


COLLEGE OF EDUCATION

EDUCATIONAL FOUNDATIONS


EDUCATIONAL SERVICES


ROTHBERG, R. A. "I'm Out of Inspirational Messages," The Educational Magazine, Education Department of Victoria, Australia, 42, 5-6, (1985).

INSTRUCTIONAL PROGRAMS


COLLEGE OF ENGINEERING

COMPUTER ENGINEERING


COLLEGE OF HEALTH


FLORIDA SOLAR ENERGY CENTER


PROCEEDINGS
COLLEGE OF ARTS AND SCIENCES

BIOLOGICAL SCIENCES


CHEMISTRY


COMPUTER SCIENCE


ENGLISH

JONES, D. R. "Technical Writing Textbooks and Technical Writing as a Profession," Proceedings of the Institute for Electrical and


MATHEMATICS


SOCIAL WORK


STATISTICS


COLLEGE OF BUSINESS ADMINISTRATION


COMPUTER ENGINEERING


ELECTRICAL ENGINEERING


ENGINEERING TECHNOLOGY


INDUSTRIAL ENGINEERING


MECHANICAL ENGINEERING


COLLEGE OF HEALTH


FLORIDA SOLAR ENERGY CENTER


CREATIVE WORKS
Exhibits, Performances
ART


CHAVDA, J. Juried Logo, for The Institute for Simulation and Training, University of Central Florida, February 25, 1986.


CHAVDA, J. Commissioned cover design for Emphasis, Division of University Relations, UCF, Orlando, 16 (6), December 1985.


CHAVDA, J. Commissioned invitation design for Art Department, University of Central Florida, Orlando, Recent Chine Colle Prints by George Donald, July 30, 1985.


LOTZ, S. Commissioned Installation, 3 paintings and 1 drawing for the Grand Cypress Hotel, Lake Buena Vista, FL, Spring 1986.


LOTZ, S. Commissioned Installation, 3 paintings for new offices of Dr. Leonard Levine, Orlando, FL, Spring 1986.

RIVERS, R. Juried Group exhibition, "38th North American Print Exhibition," Sponsored by the Boston Printmakers, Emmanuel College, Boston, MA, April 19 - May 31, 1986. (Print: Trophies - Sculpture Studio Seven Saints" was selected for a Juror's Commendation).


RIVERS, R. National Invitational Group exhibition, "Day of the Dead," Cameron University, Department of Art, Lawton, OK, October 7 - November 1 1985.


WELLMAN, C. Group exhibition, "UCF Art Department Faculty," The Industrial Development Commission of Mid-Florida, Orlando, FL, December 1, 1985 - February 28, 1986.


WELLMAN, C. One man show, University of Central Florida Art Gallery, Orlando, FL, January 1986.

COMMUNICATION


WYCOFF, E. B. Director of general assembly, banquet emcee, and program moderator for convention, National Congress on Aviation and Space Education, New Orleans, LA, March 17-22, 1985. Wrote and narrated the first special program tribute to Teacher in Space Christa McAuliffe (scheduled as keynote speaker). Audience included 1,000 teachers, Teacher-in-Space candidates and McAuliffe backup, Barbara Morgan.

MUSIC

EUBANK, L. E.
Bassist with Daytona Beach Community Orchestra, Catholic Church, Daytona Beach, FL, June 9, 1985.
Bassist with Florida Symphony Orchestra, Masterworks Subscription Concert, Carr Performing Arts Centre, Orlando, FL, October 17-19, 1985.
Bassist with Florida Symphony Orchestra, Daytona Beach series, Daytona Beach, FL, October 18, 1985.
Bassist with Florida Symphony Orchestra, Masterworks Subscription Concert, Carr Performing Arts Centre, Orlando, FL, October 31 and November 1, 1985.
Chamber orchestra performance, St. John's Lutheran Church, Winter Park, FL, November 24, 1985.
Bassist with Daytona Beach Community Orchestra, Daytona Beach Community College, Daytona Beach, FL, November 24, 1985.

Christmas music performances:

UCF Faculty Jazz Trio Performance, Peninsula Club, Daytona Beach, FL, January 17, 1986.
Bassist with Florida Symphony Orchestra, Masterworks Subscription Concert, Carr Performing Arts Centre, Orlando, FL, January 30 and February 1, 1986.
Bassist with UCF Community Orchestra, Verdi's "Requiem," Peabody Auditorium, Daytona Beach, FL, March 22, 1986.
Bassist with Messiah Orchestra, First Presbyterian Church, Orlando, FL, March 23, 1986.
Bassist with Daytona Beach Community Orchestra, Daytona Beach Community College, Daytona Beach, FL, April 6, 1986.

FARINA, A. C.

FARINA, A. C., LESKO, E. S. and MCQUINN, S. M.
Piano, Guitar, and Flute recital (Faculty Artist Series), UCF Campus, March 15, 1986.

FARINA, A. C. and EVANS, M. J.
Four performances of opera excerpts (with Frank Carroll, baritone, and Sandra Collins, mezzo-soprano) for ARTS FEST '86, Orlando, FL, April 12-13, 1986.

FARINA, A. C. and LESKO, E. S.
Performance-lecture-demonstration (harpsichord and guitar), Blankner Elementary School, Orlando, FL, April 18, 1986.

GARDNER, J. Y.
Clinician, Fordson High School Band, IL, June 17, 1985.

Conducted UCF Marching Band at Orlando Stadium, Orlando, FL, August 30, September 7, September 13, October 5, October 12, October 19, October 26, November 23, and November 30, 1985; also at Georgia Southern College, November 9, 1985.
Conducted UCF Marching Band at Expo Center, Orlando, FL, October 1, 1985.
Conducted UCF Wind Ensemble at state convention of the Florida Music Educators Association, Tampa, FL, January 10, 1986.


LESKO, E. S. and FARINA, A. C.
Guitar and Piano Recital (Faculty Artist Series), UCF Campus, October 20, 1985.

LESKO, E. S.
Guitarist with Florida Symphony Orchestra, Orlando, FL, October 31 and November 2, 1985.
Performance for Town and Gown Reception, Orlando, FL, November 22, 1985.
Soloist with Florida Symphony Orchestra, Christmas Concert, Orlando, FL, December 15 and 17, 1985.
Recital, First Unitarian Church, Winter Park, FL, March 9, 1986.

MCQUINN, S. M. and FARINA, A. C.

MCQUINN, S. M.
Flute recital, University of Tampa, Tampa, FL, June 1985.
Flute recital, UCF Campus, October 20, 1985.
Flute and piano recital, Orangeburg, SC, March 1986.

MICARELLI, S.
UCF Faculty String Quartet Performance, UCF Campus, May 19, 1985.
Soloist for three concerts at MCA Music Camp, Franklin, NC, August 1, 5, and 9, 1985.
Performance on UCF Faculty Artist Series, UCF Campus, October 20, 1985.
Solo recital with J. G. WOLF, Faculty Artist Series, UCF Campus, April 11, 1986.

OWENS, W. S., PICKERING, G. R. and WOLF, J. G.
Clarinet, Trombone, and Piano recital, Faculty Artist Series, UCF Campus, September 16, 1985.

OWENS, W. S., MCQUINN, S., MASCARO, J., MASCARO, A. and GROVES, D.
Woodwind Quintet recital, Faculty Artist Series, UCF Campus, September 30, 1985.

OWENS, W. S.
Clarinetist with Florida Symphony Orchestra, Carr Performing Arts Centre, Orlando, FL, October 8, 1985.
Guest Artist Recital, Florida State University, Tallahassee, FL, October 25, 1985.
Clarinetist with Florida Symphony Orchestra, Carr Performing Arts Centre, Orlando, FL, October 31, November 1-2, 1985.
Clarinetist with Florida Symphony Orchestra, Carr Performing Arts Centre, Orlando, FL, November 29, 1985.
Soloist with UCF Community Orchestra, February 9, 1986.
Conducted woodwind sectional rehearsal for Florida Youth Orchestra, Orlando, FL, February 23, 1986.
Faculty Recital, Valencia Community College, Orlando, FL, February 25, 1986.

PICKERING, G. R.
Member of Artist Faculty, Brevard Music Center, Brevard, NC. June 24 - August 13, 1985. Numerous performances of musicals, operas, and symphonic music.
Conducted UCF Brass Ensemble, "Quest for Excellence" program, Orlando Chamber of Commerce, Expo Centre, Orlando, FL, November 8, 1985.
Directed Brass program, St. Joseph's Catholic Church, February 9, 1986.
Performed in "Carols by Candlelight" service, College Park Baptist Church, Orlando, FL, December 15, 1985.
Directed Brass Quartet, Holy Redeemer Church, Kissimmee, FL, February 18, 1986.
Directed UCF Brass Choir and Low Brass Ensemble, Aloma Baptist Church, Winter Park, FL, April 3, 1986.

RONEY, W. L.
Soloist in Verdi REQUIEM, Peabody Auditorium, Daytona Beach, FL, March 22, 1986.
Soloist (Jesus) in Massenet's MARIE MAGNELEINE, with Florida Symphony Orchestra and Bach Festival Choir, Rollins College, Winter Park, FL, May 1, 1986.

SOMERVILLE, H. B.
Solo organ recital, St. Richard's Episcopal Church, Winter Park, FL, April 8, 1986.

THAYER, L. J.
Guest Conductor, Brevard Chamber of Commerce Festival of Lessons and Carols, Brevard County, FL, December 1, 1985.
Conductor, UCF Madrigal Dinners, five concerts, UCF Campus, December 10-14, 1985.
Conductor, UCF Chamber Singers, Lake Brantley High School, April 2, 1986.
Conductor, UCF Chorus and Chamber Singers, First Presbyterian Church of Maitland, Maitland, FL, April 6, 1986.

THREATTE, C.
Composition performed, "Pastorale" for flute choir performed twice at Montreat Conference of Church Music, Montreat, NC, June 1985.
Composition performed, "Hosanna to the Son of David," performed by Robert Dale Chorale, Scranton, PA, November 1985.
Composition performed, "Symphonies of Carols," performed by Florida Symphony Orchestra, three performances, December 1985.

WHITNEY, J. C.
Performed in Musicale for Central Florida Ex-POW's, Longwood, FL, August 18, 1985.
Conducted UCF Orchestra at State Convention of the Florida State Music Teachers Association, Orlando, FL, November 1985.
Pianist in Faculty Jazz Trio, Peninsula Club, Daytona Beach, FL, January 17, 1986.
Conducted Boston University Orchestra at American Symphony Orchestra League Conducting Workshop, Boston, MA, February 13-17, 1986.
Guest Artist, Colonial High School Jazz Concert, Orlando, FL, February 27, 1986.
Clinician, Oneida High School Jazz Band, Oneida, NY, March 13, 1986.
Conducted UCF Orchestra in performance of Verdi's REQUIEM, Peabody Hall, Daytona Beach, FL, March 22, 1986.
Guest Conductor, Polk County Orchestra, Lakeland, FL, April 4, 1986.
Jazz Pianist, Cocoa Beach Jazz Festival, Cajun Jazz Festival, Mercado Jazz Festival.
Violinist, Henry Mancini Florida Tour.
Conducted UCF Jazz Lab at Light Up Orlando, ARTSFEST, the Spring Tour, and the Spring Concert with Guest Artist, Art Farmer.

WOLF, J. G.
Recitals at MCA Camp for Performing Artists, Franklin, NC, August 1, 5, 9, 1985.
Violin/piano duo with S. Micarelli for Arts Council of Greater Orlando's "Panoply of Presidents" program, Rollins College, September 21, 1985.
Solo recital, Faculty Artist Series, UCF, March 2, 1986.
Solo recital, Guest Artist Series, University of Texas, Austin, TX, March 20, 1986.
Duo recital with S. MICARELLI, violin, Faculty Artist Series, UCF, April 11, 1986.
Solo recital, First United Methodist Church, Orlando, FL, April 21, 1986.

WRANCHER, E. and FARINA, A. C.
Performance on Faculty Recital, State Convention of Florida State Music Teachers Association and Florida Affiliate of the National Association of Teachers of Singing, Marriott Inn, Orlando, FL, November 3, 1985.

WRANCHER, E.
Concert, sponsored by Eli Lilly and Company, Indianapolis, IN, May 19, 1985.
Concert, Cedarville College Campus, Cedarville, OH, May 23, 1985.
SOCIOLOGY AND ANTHROPOLOGY


THEATRE

MCKAY, M. L. Directed the University Theatre's production of Relatively Speaking, October 1985.

MCKAY, M. L. Directed a Mummer's Play, St. George and the Dragon, for the UCF Madrigal Dinner, December 1985.

MCKAY, M. L. Directed the play Spare Change Players, for Lockhart Elementary School, September 1985 and Orange County Dog Fanciers, December 1985.


MCKAY, M. L. Directed the University Theatre's production of Anything Goes, April 1986.

MCKAY, M. L. Directed master class, Delsarte, Case Western University, Cleveland, OH, July 1986.
PRESENTATIONS
International or National Meetings
BIOLOGICAL SCIENCES


CHEMISTRY


HAMILPTON, M. D. "Workshop for Preparation of High School Students for International Chemistry Olympiad," Lubbock, TX, April 1986.


COMMUNICATION


ENGLISH


FOREIGN LANGUAGES


HISTORY


HUMANITIES, PHILOSOPHY AND RELIGION


MATHEMATICS


MOHAPATRA, R. N. "Saturation Results for a Class of Linear Operators II," (invited lecture on the Special Session on Numerical Approximation Theory), Summer Meeting of the American Mathematical Society, WY, August 1985.


MOHAPATRA, R. N. "On an Analogue of Hardy's Inequality for Sequence Space P(p)," Oberwolfach Conference on General Inequalities, Mathematische Forschungs Institut, Oberwolfach, Germany, May 1986.


PHYSICS


POLITICAL SCIENCE


PSYCHOLOGY


PUBLIC SERVICE ADMINISTRATION


SOCIAL WORK


SOCIOLOGY AND ANTHROPOLOGY


CHASE, D. Z. and CHASE, A. F. "Conocimientos Arqueologicas Maya de Tierra Baja de la Epoca del Contacto," Primera Mesa Redonda: Hernan Cortes en el Area Maya, Toledo, Spain, November 1985.


STATISTICS


THEATRE


COLLEGE OF BUSINESS ADMINISTRATION


WEAVER, W. C. "Iterative Model to Determine Optimal Holding Periods for Real Estate Investments," American Real Estate Society, La Jolla, CA, April 1986.


COLLEGE OF EDUCATION

EDUCATIONAL FOUNDATIONS


EDUCATIONAL SERVICES


INSTRUCTIONAL PROGRAMS


COMPUTER ENGINEERING


ELECTRICAL ENGINEERING


ENGINEERING TECHNOLOGY


INDUSTRIAL ENGINEERING


MECHANICAL ENGINEERING


COLLEGE OF HEALTH


LYTLE, J. S. "Microcomputers in Allied Health Education," American Society of Allied Health Professions, Dallas, TX, November 1985.


SWENNE Y, M. J. "Immunology of the Allergic: Immunology and Newer Concepts as Related to Allergy." Nineteenth (19th) Annual Congress of the American Association for Clinical Immunology and Allergy, Atlanta, GA, November 1985.


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**FL O RIDA SOLAR E NERGY C E NTER**


DIVISION OF STUDENT AFFAIRS


PRESENTATIONS
Regional or State Meetings
BIOLOGICAL SCIENCES


CHEMISTRY


COMMUNICATIONS


ENGLISH


OMANS, S. E. "Which English Department Is In Your Future?" Florida College English Association, Fort Myers, FL, March 1986.

HISTORY


HUMANITIES, PHILOSOPHY AND RELIGION


MATHEMATICS


EVES, H. W. "Two Surprising Theorems on Cavalieri Congruence," Annual Meeting of the Florida Section of the Mathematical Association of America, (invited address), Seminole Community College, Sanford, FL, February 1986.

MUSIC


PHYSICS


POLITICAL SCIENCE


PSYCHOLOGY


PUBLIC SERVICE ADMINISTRATION


STATISTICS


COLLEGE OF BUSINESS ADMINISTRATION


CALLARMAN, W. G. "Strategic Planning and Your Chapter," statewide meeting of the American Institute of Banking, Daytona Beach, FL, August 1985.


GRIERSON, P. R. "Validation of Various Accounting Program Screening Model Predictor Variables," Southeastern Regional American Accounting Association, Greenville, SC, April 1986.


McCARTNEY, W. W. "Comparative Leadership Profiles of Business Majors, 28th Annual Meeting of the Southwest Division of the Academy of Management, Dallas, TX, March 1986.


COLLEGE OF EDUCATION

EDUCATIONAL FOUNDATIONS


EDUCATIONAL SERVICES


ROTHBERG, R. A. and Shadgett, D. "We are on the same team and we're better than we think we are!" Florida Staff Development Leadership Conference, Daytona Beach, FL, October 1985.
INSTRUCTIONAL PROGRAMS


COLLEGE OF ENGINEERING

CIVIL ENGINEERING


TAYLOR, J. S. "Nanofiltration," Where's the Water Conference, June 1985, Florida Water and Pollution Control Association, Ft. Lauderdale, FL.


Yousef, Y. A. "Fate of Pollutants in On-Line Retention," Stormwater Management: An Update Conference, American Society of Civil Engineers Florida Section and South Florida Section, Orlando Airport Marriott, Orlando, FL, July 1985.

Computer Engineering


Electrical Engineering


Engineering Technology


Industrial Engineering


Mechanical Engineering

Evan-Iwanowski, R. M. and Munday, E. G., "Effects Hysteretic Dissipation on Forced (Dynamic) Resonance Vibrations." Winter Annual Meeting of
American Society of Mechanical Engineers, Miami Beach, FL, November 1985.

COLLEGE OF HEALTH


FLORIDA SOLAR ENERGY CENTER


DIVISION OF STUDENT AFFAIRS


PRESENTATIONS

Seminars at Another University or Before an Audience of One's Peers
ART


WAHLMAN, M. "Afro-American Quilts," Auburn University Art Department, Auburn, AL, April 1986.

BIOLOGICAL SCIENCES


CHEMISTRY

CUNNINGHAM, G. N. "Biological Screening for Insecticidal Activity and Biochemical Mode of Action of 1,3,4-Oxadiazoles and Their Precursors," Department of Chemistry, University of South Florida, Tampa, FL, October 1985.


GUPTON, J. "Recent Developments Regarding the Chemistry of Vinylogous Iminium Salts and Related Compounds," Emory University, Seminar Program, Atlanta, GA, December 1985.


COMMUNICATION


WYCOFF, E. B. "Law Enforcement and Hi Touch," featured speaker at the meeting of over 150 Florida sheriffs, chiefs of police and other administrators, Central Florida Law Enforcement Association, Sanford, FL, December 1985.


COMPUTER SCIENCE


ENGLISH

FOREIGN LANGUAGES

HISTORY
PAULEY, B. F. "Jewish Reactions to Austrian Antisemitism," Symposium on Jews in Austria at the Center for Austrian Studies of the University of Minnesota, Minneapolis, MN, May 1986.

HUMANITIES, PHILOSOPHY AND RELIGION
TAYLOR, M. D. Doubly Stochastic Measures with Support on gug\(^{-1}\), University of Massachusetts, Amherst, MA, October 1985.

MATHEMATICS
MOHAPATRA, R. N. "Saturation Results Involving Certain Summation Processes," Conference of Southeast Approximators, University of South Florida, Tampa, FL, April 1986.

**PHYSICS**


**PUBLIC SERVICE ADMINISTRATION**


SOCIAL WORK

KAZMERSKI, K. J. "University Profiles," presentation on the Department of Social Work, UCF-TV.

STATISTICS


THEATRE


COLLEGE OF BUSINESS ADMINISTRATION


COLLEGE OF EDUCATION


COLLEGE OF ENGINEERING

CIVIL ENGINEERING


TAYLOR, J. S. "Organic Control in Water Plant," Region 3 Short School, April 1986, Titusville, FL.


ELECTRICAL ENGINEERING


INDUSTRIAL ENGINEERING


SWART, W., "Food Equipment in the Year 2000" Nafem, New Orleans, LA.


MECHANICAL ENGINEERING


COLLEGE OF HEALTH


HEINSOHN, B. "International Medical Laboratories." Central Florida Chapter, Florida Division American Society of Medical Technology, March 1986.

KANGELOS, M. and HEINSOHN, B. "Implementation of University-based MLS program." Orlando Regional Medical Center, Orlando, FL, April 1986.


MAYNARD, P. R. "Cross Sectional Anatomy and the Cranial Region." Student and graduate technologist seminar, Atlanta, GA, February 1986.


**FLORIDA SOLAR ENERGY CENTER**


**DIVISION OF STUDENT AFFAIRS**


EXTERNAL FUNDING
Contracts and Grants
$7,468,858.00
### RESEARCH AND DEVELOPMENT ACTIVITIES

**Basic and Applied Research**
- Development: $412,868 (5.5%)
- Training: $338,447 (4.5%)
- Administration: $912,166 (12%)
- Total: $5,805,377 (78%)

### PROPOSALS SUBMITTED AND FUNDED* FY86

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**TOTAL**
- 592
- 330
- $21,541,348
- 227
- $7,468,858

* Includes proposals submitted in FY85 but funded in FY86.
** Includes programs not in a specific academic college.
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### COLLEGE OF ARTS & SCIENCES

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**Total** $291,606

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<td>G. F. Schrader</td>
<td>EIES - Computer Maintenance</td>
<td>375</td>
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<td>F. O. Simons</td>
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<td>W. W. Swart</td>
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<td>J. S. Taylor</td>
<td>Membrane Systems</td>
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<td>J. S. Taylor</td>
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<td>H. C. Towle</td>
<td>AI Test Bed</td>
<td>44,491</td>
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<td>P. F. Wahid</td>
<td>EIES - Microstrip Antennas</td>
<td>5,146</td>
<td>UCF/EIES</td>
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<td>R. A. Walters</td>
<td>EIES - Multi Aperture</td>
<td>6,858</td>
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<td>M. P. Wanielista</td>
<td>Grndwtr. Contaminants-EIES</td>
<td>49,996</td>
<td>FL/DOT</td>
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<td>M. P. Wanielista</td>
<td>Rainfall Analysis</td>
<td>70,334</td>
<td>SWFWMD</td>
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<td>M. P. Wanielista</td>
<td>EIES-Research Exploration</td>
<td>6,000</td>
<td>UCF/EIES</td>
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<td>G. E. Whitehouse</td>
<td>Model Integration - EIES</td>
<td>20,974</td>
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<td>Y. A. Yousef</td>
<td>Wet Detention Ponds</td>
<td>75,000</td>
<td>FL/DER</td>
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### COLLEGE OF EXTENDED STUDIES

<table>
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<th>Principal Investigator</th>
<th>Title</th>
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<tr>
<td>J. L. Loudermilk</td>
<td>Government Institute</td>
<td>$50,000</td>
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### COLLEGE OF HEALTH

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<tr>
<td>D. L. Ratusnik</td>
<td>LURN Grant</td>
<td>$2,000</td>
<td>Utah State Univ.</td>
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## FLORIDA SOLAR ENERGY CENTER

<table>
<thead>
<tr>
<th>Principal Investigator</th>
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<tr>
<td>S. Chandra</td>
<td>Airflow Calculations</td>
<td>$34,027</td>
<td>ASHRAE</td>
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<tr>
<td>S. Chandra</td>
<td>Residential Conservation</td>
<td>75,800</td>
<td>DOE</td>
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<td>S. Chandra</td>
<td>Solar Consulting</td>
<td>30,000</td>
<td>Battelle</td>
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<td>C. J. Cromer</td>
<td>Conservation Construction</td>
<td>70,000</td>
<td>Brookhaven Lab</td>
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<tr>
<td>P. W. Fairey</td>
<td>Hot Box Test</td>
<td>2,000</td>
<td>Solar Energy Corp.</td>
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<td>O. G. Hancock</td>
<td>Hydrogen Energy</td>
<td>63,820</td>
<td>HNEI</td>
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<tr>
<td>H. M. Healey</td>
<td>PV Electric System</td>
<td>9,750</td>
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<tr>
<td>M. K. Khattar</td>
<td>HVAC System Design</td>
<td>4,800</td>
<td>Harris Corp.</td>
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<td>W. R. McCluney</td>
<td>Fenestration Research</td>
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<td>Lighting Research</td>
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<tr>
<td>W. R. McCluney</td>
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<td>G. G. Ventre</td>
<td>SE Experiment Station</td>
<td>50,000</td>
<td>DOE</td>
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<td>M. M. Yarosh</td>
<td>Solar Consultation</td>
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$\text{Total} = $654,342
INTERNALLY FUNDED AWARDS

$173,497.00
Travel to New York for opening of art exhibits at the Gray Gallery, New York University, and the Arbitrage Gallery.

W. Gaudnek.

Travel to solicit donation of traditional African art from the Victor DuBois estate for the University's art collection.

M. S. Wahlman.

Production of Interleukin-2 using a hollow fiber filter culture system.

R. N. Gennaro, R. E. Longley.

Purchase of ultra-centrifuge for use in research on Interleukin-2.

R. E. Longley.

Travel to attend meetings of the Florida Institute of Oceanography.

F. F. Snelson, Jr.

Support for membership in the Florida Institute of Oceanography.

F. F. Snelson, Jr.

Support to partially burn forestry preserve.

I. J. Stout.

Upgrade computer for research on remote sensing.

H. C. Sweet.

The development and evaluation of a new "allergo-blot" test to screen sera for allergic IgE antibodies to foods or modified food antigens.

R. S. White.

Funding to install fencing around the University's arboretum.

H. O. Whittier.

Supplies for research project on enzyme pattern formation in Drosophila imaginal discs.

G. N. Cunningham.

Matching commitment for NSF grant to study the enzyme pattern formation of drosophila imaginal discs.

G. N. Cunningham, D. L. Kuhn.

Image analysis of enzyme pattern formation in higher eucaryotes.

G. N. Cunningham, J. M. Moschell.

Improved preparation of CF$_2$I$_2$ and GEM difluorodienes.

S. R. Elsheimer.

Investigation of optimistic concurrency control, using time-stamps to increase system productivity and reduce the rate of backups in distributed computer networks.

M. A. Bassiouni.

Travel reimbursement for conference trip.


Simulation and verification of a distributed scheme for program and data security.

H. N. Srinidhi.

Implement two recently developed syntax-directed editors for graphical programming.

D. A. Workman.

Purchase of word processing software.

S. E. Omans.

Duplication of video tape of Russian language skit.

K. H. Barsch.

Patent filing fee for video tape of Russian language skit.

K. H. Barsch.

Publication costs for a critical edition of La Relacion by Alvar Cabeza De Vaca.

J. B. Fernandez.

Support for field research on the mayor of Konstanz in southern Germany.

E. B. Fetscher.

Support for translation of historic documents for an analysis of the mayor of Konstanz.

E. B. Fetscher.

Travel to Washington, D.C. for possible funding.

L. C. Andrews.

Formulation and Analysis of a mathematical model for an integrated expert system for magnetic resonance scan optimization.

R. N. Mohapatra.

Mathematical analysis of two-dimensional turbulence.
B. K. Shivamoggi.
Travel to Washington, D.C. for possible funding. W. C. Oelfke. 6,427
Travel to attend Industry/University Cooperative Research Center
directors meeting. W. C. Oelfke. 733
Travel to Raleigh-Durham to deliver proposal. W. C. Oelfke. 663
Investigation of the political consequences of the Voting Rights
Act of 1965. D. L. Davison. 4,500
Support for Canadian Studies Programme. H. Kennedy. 2,400
Travel to Wright Patterson Air Force Base for possible human
factors funding. R. D. Gilson. 461
Consulting services for the Institute for Simulation and Training
(IST). R. D. Gilson. 1,000
Travel to plan Lindberg Symposium in Orlando. R. D. Gilson. 1,047
Exploration of the response integration component of backward
recall of foreign language words. M. H. Thomas. 5,000
Travel to bidders conference. N. G. Holten. 194
Follow-up study of Korean children in Iowa. E. K. Suh. 475
Travel to bidders conference for possible funding. W. R. Brown. 213
Printing of 12-page catalog of color photographs of Mayan
artifacts. A. F. Chase, D. Z. Chase. 3,626
Design and typesetting charges for catalog of Mayan artifacts.
A. F. Chase, D. Z. Chase. 31
Data base search for research. I. J. Cook. 66
TOTAL 105,006

COLLEGE OF BUSINESS ADMINISTRATION

Travel to attend STAR conference. T. L. Campbell. 234
Travel to present a proposal. T. L. Campbell. 420
Study of job satisfaction and job preferences among Master of
Business Administration graduates. G. E. Stevens. 4,910
TOTAL 5,564

COLLEGE OF EDUCATION

Identification of attributes of successful audio-teleconferencing
instructors. L. R. Hudson. 5,162
Travel and fees for Southeast Telecommunications Conference.
L. R. Hudson. 513
Support for equipment for teleconferencing. L. R. Hudson. 5,750
Travel to make proposal presentation at Society for Applied
Learning Technology. L. R. Hudson. 793
Support to upgrade word processing equipment. L. R. Hudson. 548
A comparison of the effects of two methods of skills instruction
on selected fourth-grade students' comprehension.
K. J. Williams. 2,575
TOTAL 15,341
COLLEGE OF ENGINEERING

Travel to conference. B. E. Mathews. 985
Travel to receive Fuller award and chair meeting. J. S. Taylor. 398
Data processing support. J. S. Taylor. 13
Configuration of an active optical processing system. G. D. Boreman. 6,627
Study of electromagnetic scattering from skew-symmetric metallic grids. C. G. Christodoulou. 6,039
Support for patent services. R. J. Martin. 2,436
Travel to Washington, D.C. for possible funding. R. L. Phillips. 335
Research on surface acoustic waves for phased array antennas. P. F. Wahid, D. C. Malocha. 11,589

TOTAL 28,422

COLLEGE OF HEALTH

Survey of causative factors in dental practice negligence. R. M. Gerughty. 1,200
Support for book illustrations. L. J. Acierno. 162

TOTAL 1,362

ACADEMIC AFFAIRS

Funding to purchase exhibit case for University authors. A. M. Allison. 1,302

TOTAL 1,302

FLORIDA SOLAR ENERGY CENTER

Publication of calendar. D. L. Block. 1,500
Optimization of design techniques for photovoltaic water pumping systems. J. P. Dunlop. 5,000
Development of a waste engine heat powered air conditioner. P. D. Freen. 5,000
Development of a hydrogen research facility to design, fabricate and evaluate an improved model electrolyzer. O. G. Hancock. 5,000

TOTAL 16,500
OTHER SCHOLARLY WORKS
ART


BIOLOGICAL SCIENCES


CHEMISTRY

MCGEE, W. W. Chapter-Undergraduate Education in Forensic Science: A Ten Year Perspective (Boston, MA: Northeastern University) 1986, 19 pages.


COMPUTER SCIENCE


ENGLISH


FOREIGN LANGUAGES


PELLI, M. "Isaac Bashevis Singers' Narrative Art," introducing Nobel Prize speaker at public lecture and assessing his work, Student Center Auditorium, Orlando, FL, March 1986.

HISTORY


MATHEMATICS


MUSIC

FARINA, A. C. Translation of Monteverdi lyrics (Italian to English) for choral concert, (1986).


RONEY, W. L. Weekly column of cultural commentary, "Play On!" OUTLOOK newspapers; also printed in LA PRENSA.

RONEY, W. L. Guest writer on music, DAYTONA NEWS-Journal.


PHYSICS

BOLEMON, J. S. Summer Meeting of the American Association of Physics Teachers, Chaired two sessions on Training of High School Physics Teachers and on High School Curricula, (1985).

BOLEMON, J. S. Elected Vice-President of the Central Florida Astronomical Society, and also served as Program Chairman; made arrangements for speakers for monthly meetings at the Orlando Science Center, (1985).


POLITICAL SCIENCE


JOHNSON-FREESE, J. Austria (Wilmington, DE: Scholarly Resources) 1986, 30 pages.


PSYCHOLOGY


SOCIAL WORK

ABEL, E. M. Curriculum Developer and Trainer, "Case Management in Mental Health: Assessment, Goal Setting and Service Planning," a series of eleven workshops throughout Florida designed to train all case-managers in the state, (1986).


KAZMERSKI, K. J. "Mental Health Case Management, Eleven two-day workshops across the state of Florida.

KAZMERSKI, K. J. "Case Managing in Aging," A one-day workshop, Tampa, FL.

SOCIOLOGY AND ANTHROPOLOGY


CHASE, D. Z. and CHASE, A. F. Refining Maya Prehistory: Archeology at Santa Rita Corozal (Belmopan, Belize) 1985, 3 pages.


STATISTICS


THEATRE

SMITH, H. W. Study Guide for 100 American Films used in Film Classes at UCF.

COLLEGE OF BUSINESS ADMINISTRATION


DAY, A. E. Editor of Business Barometer of Central Florida, (Quarters 3, 4) (1986) and (Quarters 1, 2), (1985).


COLLEGE OF EDUCATION


EDUCATIONAL SERVICES


LANGE, R., SORG, S. E., FARDIG, G., Koch, R. Barriers to Postsecondary Competency-Based Vocational Education (Tallahassee, FL: Florida Department of Education), 1985, 52 pages.


INSTRUCTIONAL PROGRAMS


COLLEGE OF ENGINEERING

CIVIL ENGINEERING


COMPUTER ENGINEERING


ELECTRICAL ENGINEERING


ENGINEERING TECHNOLOGY

DENNING, R. G. Commercial Food Service Case Studies, Four Volumes, for the Orlando Utilities Corporation, August 1985.


INDUSTRIAL ENGINEERING


COLLEGE OF HEALTH


FLORIDA SOLAR ENERGY CENTER

CHANDRA, S. "Fans to Reduce Cooling Costs in the Southeast" (Cape Canaveral, FL: Florida Solar Energy Center), 1985, 4 pages.


VIEIRA, R. "Dealing With Heat and Humidity in Florida Homes" (Cape Canaveral, FL: Florida Solar Energy Center) 1986, 4 pages.


DIVISION OF STUDENT AFFAIRS


