FOREWORD

The faculty of the College of Medicine number 153 fulltime, 15 part-time and 302 voluntary members of the clinical faculty. Among the faculty 32% hold the academic rank of professor, 23% are associate professors, 39% assistant professor, and 6% are instructors or lecturers. Forty-six percent of the faculty have been awarded tenure.

During the year successful searches were conducted for new chairman for the departments of Pharmacology, Anesthesiology, Neurosurgery and Neurology. Dr. Eugene Quindlen has been appointed chairman of the Neurosurgery Department; Dr. Samuel Strada, chairman of Pharmacology; Dr. John Miller, chairman of our new Anesthesiology Department and Dr. Paul Kyken, chairman of the Department of Neurology.

This fall 65 students have been accepted into the freshman class. Twenty-five percent of the admitted class has been selected from rural Alabama counties, and all but two of the class are Alabama residents. The class was selected from 653 total applicants and 439 Alabama applicants. The entering students have an undergraduate grand point average of 3.5 on a scale of 4.0, and a composite MCAT average of 9.1. The MCAT average for the national of accepted students is 8.6.

On June 5th, 1983, the College held its eighth convocation and graduation exercises. We awarded the first degrees of Doctor of Philosophy in the Basic Medical Sciences to four students of the Graduate School. This was an important milestone for our college. These are the first Ph.D. degrees ever awarded by an institution in this region of our state. Each of these young scientists has obtained an excellent postdoctoral position.

Our research program continues to grow and the quality remains outstanding.

The Medical Student Summer Research Fellowship program has been in existence for ten years and this past year 27 students participated.

In this year's National Resident Matching Program, 42 of the 71 graduating seniors obtained their first choice residency program. Twenty-three percent have elected to stay with us at South and 38% will remain in the state of Alabama. Twenty-one senior students selected programs in internal medicine, twelve selected family practice, eleven pediatrics, and ten students selected programs in surgery.

The Ambulatory Health Services Building has been operating since June 1982 and has been very successful over the past year. The Forensic Science Building is nearing completion.

This past year saw the indigent patient hospital crisis erupt, causing us to recommend closure of our emergency room over a nine week period. The administration of the hospital and the College of Medicine would like to express our sincere gratitude to the President, the
Board of Trustees, the State Delegation and to the City and County Commissions for so quickly coming up with some additional money to address this problem partially. The emergency room is now reopened.

We look ahead to a less controversial year and a year of progress despite continuing financial restraints.

Dean, College of Medicine
# 1982-1983

## ANNUAL REPORT

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<td>Department of Biochemistry</td>
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<td>Department of Comparative Medicine</td>
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<td>Department of Family Practice</td>
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<td>Department of Internal Medicine</td>
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<td>Department of Microbiology/Immunology</td>
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<td>Department of Neurology</td>
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<td>Department of Neurosurgery</td>
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<td>Department of Orthopaedic Surgery</td>
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<td>Department of Pathology</td>
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<td>Department of Pharmacology</td>
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<td>Department of Physiology</td>
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<td>Department of Psychiatry</td>
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<td>Department of Radiology</td>
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<td>Department of Surgery</td>
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<td>VII.</td>
<td>Report From Academic Affairs</td>
<td>137</td>
</tr>
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</table>
1982-1983

SUMMARY OF SCHOLARLY ACTIVITIES

DEPARTMENT OF ANATOMY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles.


B. Articles in press.


G.L. Coffman, L.W. Yielding and K.L. Yielding. A Monoazido Analog of Ethidium as a Chromatin Probe: Binding to DNA. Biopolymers


S.G. Kayes and D.G. Colley. Immunoregulation in Experimental Schistosomiasis. II. Soluble Egg Antigen-Induced Chronic Spleen Cell Augmentation of Baseline Lymphocyte Reactivity. Cell Immunol.


K.L. Yielding and L.W. Yielding. Azido Analogs of Photoaffinity Probes of Binding and Biological Actions of Ethidium and Acridine. JACS Symposium


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED - None

IV. PRESENTATIONS


V. EXTRAMURAL FUNDING

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>DATES OF AWARD</th>
<th>CURRENT YEAR FUNDING*</th>
<th>TOTAL AWARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y.M. Bhatnagar</td>
<td>NIH</td>
<td>4/1/80-3/31/86</td>
<td>82,723</td>
<td>418,043</td>
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<tr>
<td>P.A. Fields</td>
<td>NIH</td>
<td>7/1/81-6/30/84</td>
<td>34,895</td>
<td>105,060</td>
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<tr>
<td>P.A. Fields (CoIn)</td>
<td>NSF</td>
<td>12/1/81-11/30/84</td>
<td>16,699</td>
<td>48,782</td>
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<tr>
<td>S.G. Kayes</td>
<td>NIH</td>
<td>4/1/83-3/31/86</td>
<td>50,556</td>
<td>168,447</td>
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<tr>
<td>G.L. Wilson</td>
<td>NIH</td>
<td>3/1/81-2/28/83</td>
<td>35,561</td>
<td>107,495</td>
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<tr>
<td>K.L. Yielding</td>
<td>NIH</td>
<td>8/1/80-6/30/86</td>
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<td>K.L. Yielding</td>
<td>NIH</td>
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<td>169,302</td>
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<td>K.L. Yielding</td>
<td>NIOSH</td>
<td>3/1/82-2/29/84</td>
<td>66,638</td>
<td>187,912</td>
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</table>

TOTAL FUNDING RECEIVED* 439,750
TOTAL AWARDS FROM MULTIYEAR COMMITMENTS* 1,594,184

VI. PENDING EXTRAMURAL APPLICATIONS

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>PROJECT PERIOD</th>
<th>TOTAL YEAR REQUEST*</th>
<th>TOTAL REQUEST</th>
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</thead>
<tbody>
<tr>
<td>M.J. Fields</td>
<td>NIH</td>
<td>4/1/83-3/31/82</td>
<td>14,240</td>
<td>45,334</td>
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<tr>
<td>P.A. Fields (CoIn)</td>
<td>NIH</td>
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<td>(CoIn)</td>
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<tr>
<td>G.L. Wilson &amp; S.G. Kayes</td>
<td>KROC Fd.</td>
<td></td>
<td>26,935</td>
<td>57,999</td>
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<td>(CoIn)</td>
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<tr>
<td>K.L. Yielding</td>
<td>NIH</td>
<td>3/1/84-2/28/86</td>
<td>87,529</td>
<td>283,858</td>
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### Pending Extramural Applications (cont'd)

<table>
<thead>
<tr>
<th>Faculty Members</th>
<th>Agency</th>
<th>Project Period</th>
<th>Total Year Request</th>
<th>Total Request</th>
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<tr>
<td>K.L. Yielding</td>
<td>March of Dimes</td>
<td>83-11/30/85</td>
<td>31,264</td>
<td>72,220</td>
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**Total First Year Request**

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<td>241,495</td>
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**Total Project Period Request**

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<td>710,482</td>
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*Direct Costs Only*
1982-1983

SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF BIOCHEMISTRY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles:


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED - None

IV. PRESENTATIONS


H.P. Jones. Calcium-Dependent Mechanisms of Neutrophil Activation. Dept. of Biochemistry, Bowman-Gray College of Medicine, Wake Forest University, Winston-Salem, NC, December, 1982.


Roger S. Lane. Alterations in Protein Structure and Catabolism During Aging. Dept. of Chemistry, University of Southern Mississippi, Hattiesburg, December, 1982.


Roger S. Lane. Protein Modification and Metabolism During Aging. Biomedical Sciences Forum, University of South Alabama, May, 1983.


V. EXTRAMURAL FUNDING

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>DATES OF AWARD</th>
<th>CURRENT YEAR FUNDING*</th>
<th>TOTAL AWARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>J.W. Gaubatz</td>
<td>Alabama Heart Association</td>
<td>7/1/81-6/31/83</td>
<td>19,895</td>
<td>37,145</td>
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<tr>
<td>Rosa H. Huang</td>
<td>NIH</td>
<td>1/1/82-6/30/85</td>
<td>87,337</td>
<td>263,264</td>
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<td>Harold P. Jones</td>
<td>KROC Foundation</td>
<td>1/82-12/83</td>
<td>27,739</td>
<td>58,237</td>
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<td>Harold P. Jones</td>
<td>Amer. Heart Assn. Alabama Affiliate</td>
<td>7/82-6/84</td>
<td>19,672</td>
<td>39,110</td>
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<tr>
<td>Harold P. Jones</td>
<td>The Council for Tobacco Res., Inc.</td>
<td>7/83-6/84</td>
<td>54,751</td>
<td>54,751</td>
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<tr>
<td>Roger S. Lane</td>
<td>NIH</td>
<td>12/1/82-11/30/82</td>
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<tr>
<td>Joe M. McCord</td>
<td>NIH</td>
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<td>41,472</td>
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<td>M.G. Nair</td>
<td>NIH</td>
<td>9/30/81-3/31/84</td>
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<td>M.G. Nair</td>
<td>NIH</td>
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<td>L.W. Yielding</td>
<td>NIH</td>
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<td>138,406</td>
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TOTAL FUNDING RECEIVED* 669,256

TOTAL AWARDS FROM MULTIYEAR COMMITMENTS* 2,122,190
VI. PENDING EXTRAMURAL APPLICATIONS

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<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>PROJECT PERIOD</th>
<th>FIRST YEAR REQUEST*</th>
<th>TOTAL REQUEST</th>
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</thead>
<tbody>
<tr>
<td>Jane D. Funkhouser</td>
<td>NIH</td>
<td>12/1/83-11/30/86</td>
<td>85,927</td>
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<td>J.W. Gaubatz</td>
<td>NIH</td>
<td>4/1/84-3/31/87</td>
<td>88,350</td>
<td>244,090</td>
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<tr>
<td>L.W. Yielding (CoIn)</td>
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</tr>
<tr>
<td>J.W. Gaubatz</td>
<td>Council for Tobacco Research</td>
<td>1/1/84-12/31/85</td>
<td>45,322</td>
<td>85,104</td>
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<tr>
<td>Harold P. Jones</td>
<td>NIH</td>
<td>4/84-3/87</td>
<td>69,674</td>
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<td>Harold P. Jones</td>
<td>NSF</td>
<td>7/84-6/87</td>
<td>62,500</td>
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<td>M.G. Nair</td>
<td>NIH</td>
<td>4/1/84-3/31/88</td>
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<td>237,011</td>
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</table>

TOTAL FIRST YEAR REQUEST* | 351,773
TOTAL PROJECT PERIOD REQUEST* | 1,205,294

*Direct Costs Only

VII. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

The Department of Biochemistry appears to be functioning well in its teaching and research programs. The Department has shrunk somewhat in size with the retirement of Dr. Fred Chang and the resignations of Drs. Paul Morgan and Rajendra Ghai, none of whom has been replaced. A potentially important joint appointment has been made with the arrival of Dr. Sherish Shenolikar in Pharmacology.

A Committee on Molecular Genetics has been established, consisting of faculty members in the Departments of Anatomy, Biochemistry and Microbiology/Immunology. This Committee has begun to review course offerings with the goal of revamping and improving these offerings by making them interdepartmental in nature. Due to our very limited size and resources, the Department of Biochemistry views this Committee as an important effort.

The Department has in residence eight graduate students, several of whom are expected to complete their dissertations within the next year. Three additional students have begun their second core year and will enter the Department next summer.
1982-1983
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF COMPARATIVE MEDICINE

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED - none

IV. PRESENTATIONS


C.R. Abe. Heterosalpingography: A Technique to Aid in Assessment of Reproductive Fitness of the Female Bolivian Squirrel Monkey (Saimiri sciureus). 33rd Annual Session of the American Association for Laboratory Animal Science, Washington, DC (1982).


E.J. Diamond. Serum Concentrations of Estradiol (E-2) and Progesterone (Prog) in Cycling and Non-Cycling Squirrel Monkeys (Saimiri sciureus). 33rd Annual Session of the American Association for Laboratory Animal Science, Washington, DC (1982).


V. EXTRAMURAL FUNDING

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>DATES OF AWARD</th>
<th>CURRENT YEAR FUNDING*</th>
<th>TOTAL AWARD</th>
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<tr>
<td>C.R. Abe</td>
<td>NIH</td>
<td>6/30/80-6/29/85</td>
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<td>1,291,668</td>
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<tr>
<td>S. Aksel, E.J. Diamond, V.G. Dev, W.F. Vitulli, R.H. Wiebe (CoIn)</td>
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EXTRAMURAL FUNDING (Cont'd)

<table>
<thead>
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<th>FACULTY MEMBERS</th>
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<th>DATES OF AWARD</th>
<th>CURRENT YEAR FUNDING*</th>
<th>TOTAL AWARD</th>
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<tr>
<td>C.R. Abbe</td>
<td>NHLBI</td>
<td>4/1/80-3/31/85</td>
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<td>(Subcontract with LSU)</td>
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<td>TOTAL FUNDING RECEIVED*</td>
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<td>284,811</td>
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<td>TOTAL AWARDS FROM MULTIYEAR COMMITMENTS*</td>
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<td>1,469,366</td>
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</table>

*Direct Costs Only

VI. PENDING EXTRAMURAL APPLICATIONS - none

VII. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

The Division of Animal Health and Resources is an administrative service unit headed by a director under the office of the Associate Dean for Basic Medical Sciences. The Division’s responsibilities include administration of laboratory animal facilities and supporting laboratories at the Medical Center Research Building, the Medical Sciences Building, and Primate Research Laboratory. The Division also provides research support services for investigators using animals. Medical care of all laboratory animals is also provided under the supervision of the Division Director.

The most significant change this year in the Division of Animal Health and Resources has been the reorganization of the Division from a service unit to an academic Department of Comparative Medicine beginning September 1, 1983. Dr. Christian R. Abbe (previously Director of Animal Health and Resources) was named Chairman of the new Department.

The establishment of the department has provided an academic foundation to support the already existing research and educational programs. Also, departmental status has afforded the opportunity to build a faculty and postdoctoral training program that was not possible previously. The Department of Comparative Medicine continues to operate the vivarial facilities, administer the animal care and use program, and provide veterinary medical care for all animals used in research and teaching programs of the College of Medicine. The Department conducts a course as part of the graduate curriculum for Biomedical Sciences. This four quarter hour course is entitled "Essentials of Animal Experimentation." It is composed of 23 lecture hours and 10 laboratory hours. The course was offered in the Spring quarter of this year and was attended by seven students from the graduate program. Lectures are designed to acquaint the student with the issues regarding humane use of animals, the basic biology of laboratory animals, experimental techniques using animals, and an introduction to comparative medicine.

Departmental research activities this year included the completion of year three of our studies of reproduction in the squirrel monkey (Saimiri sciureus).
This project is multidisciplinary in scope combining the research interests of investigators from the Departments of Comparative Medicine, Obstetrics and Gynecology, Medical Genetics, and Psychology. The Department has purchased two IBM microcomputers, one printer, and several database programs in support of the ongoing research effort. In September 1982, Dr. Lawrence Williams joined the Department as a Research Associate to maintain computer operations and participate in research related to behavioral primatology.
1982-1983
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF FAMILY PRACTICE

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS - none

III. BOOKS PUBLISHED - none

IV. PRESENTATIONS


V. EXTRAMURAL FUNDING

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>DATES OF AWARDS</th>
<th>CURRENT YEAR FUNDING*</th>
<th>TOTAL AWARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>H.C. Mullins</td>
<td>Health Resources &amp; Services Adm.</td>
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<td>Health Resources &amp; Services Adm.</td>
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<td>H.C. Mullins</td>
<td>Health Resources &amp; Services Adm.</td>
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<td>J.L. Wilson</td>
<td>Smith, Kline &amp; Smith</td>
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<td>5,863</td>
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</table>

TOTAL FUNDING RECEIVED* | 488,019  
TOTAL AWARDS FROM MULTIYEAR COMMITMENTS* | 1,352,258

VI. PENDING EXTRAMURAL APPLICATIONS

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>PROJECT PERIOD</th>
<th>FIRST YEAR REQUEST*</th>
<th>TOTAL REQUEST</th>
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</thead>
<tbody>
<tr>
<td>J.L. Wilson</td>
<td>Health Resources &amp; Services Adm.</td>
<td>7/1/84-</td>
<td>113,264</td>
<td>305,329</td>
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</tbody>
</table>

TOTAL FIRST YEAR REQUEST* | 113,264  
TOTAL PROJECT PERIOD REQUEST* | 305,329

*Direct Cost Only

VII. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Undergraduate - The department is involved in the education of medical students in all four years which includes medical practice and society and correlation conferences in the freshman year; four groups of students in physical diagnosis in the sophomore year; the required six weeks in Family Practice Clerkship in the junior year, which is primarily a rural experience; and electives in the fourth year.
Residency Program - Three residents completed their Family Practice training in 1983, and there are currently seventeen residents in training; six PG-I, five PG-II, six PG-III. The quality of teaching in the other major specialties by other departments and their willingness to train family practice residents continues to be a strength to this program. Dr. Jim Wilson has accepted the position as Director of the Residency Program, bringing his many years of training and experience in education and administration to this position.

Rural CME Program - In addition to the usual CME programs, this extremely successful program has presented several hundred live presentation in over thirty communities throughout South Alabama.

Scholarly Activities - The department goals for scholarly activities is progressing at a satisfactory rate. This has been accomplished by recruiting new faculty with an orientation and expertise in research and writing, along with the excellent assistance of a full-time research assistant and consulting biometrist.

Faculty - During the past year, two faculty members left the department; Max Berns, M.D., resigned to return to private family practice, and Jim Dutt, Ph.D., transferred to the College of Arts and Sciences to teach computer science and anthropology. The four faculty members added to the department are all family physicians; Joseph A. Troncale, M.D., W. Perry Dickinson, M.D., David S. Gray, M.D., and Ellen A. Sakornbut, M.D. The eight faculty currently on board are adequately carry out the programs of the department but are short of the twelve planned and needed to obtain a high degree of excellence.

Facilities - The temporary Family Practice Center constructed of mobile homes in December, 1979, is dangerous, aesthetically displeasing and unsatisfactory. It is imperative that a new permanent Family Practice Center be built as soon as possible. There is not enough space in the Mastin Building to adequately house the faculty and staff and additional office and classroom space is needed at that location.

Funding - Funding continues to be the most serious problem for the programs of this department and is being addressed by efforts at increasing practice generated income, intensifying efforts at securing Federal Grants, and seeking funds from private foundations.

Summary - The current and anticipated problems of this department are largely due to a combination of healthy growth of the department and paucity of State and Federal funding. Continuing development will depend on an adequate number and quality of faculty, adequate facilities, and funding to support these. It is absolutely essential that the high level of institutional commitment that has been evidenced in the past be continued in the present and the future for the maintenance and growth of this department.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles.


B. Articles in press.

J.B. Bass and E.L. Hawkins. The Effect of Publicly Funded Tuberculosis Service on the Diagnosis of Tuberculosis at a Teaching Hospital


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED - none

IV. PRESENTATIONS


J.G. Hardin. Extra-articular Manifestations of Rheumatoid Arthritis: The Role of Physical Therapy and Occupational Therapy in the Management of Rheumatoid Arthritis; Antinuclear Antibodies (ANAs) in Patients with Rheumatoid Arthritis; Diagnosis of Rheumatoid Arthritis; Overview of the Management of Rheumatoid Arthritis; Mixed Connective Tissue Disease: Diagnosis and Management. Southern Medical Association Dial Access Program in Immunology and Rheumatology. University of Alabama School of Medicine, Birmingham, AL (Inaugurated 11/82).


R. Kreisberg. Lipid Disturbances: Pathophysiology and Treatment. Dept. of Medicine, University Hospital of Jacksonville, Jacksonville, FL (1982).


R. Kreisberg. Lactic Acidosis. Wake Forest University, Bowman-Gray School of Medicine, Dept. of Medicine, Winston-Salem, NC (1983).


V. EXTRAMURAL FUNDING

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>DATES OF AWARD</th>
<th>CURRENT YEAR FUNDING*</th>
<th>TOTAL AWARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. Allison</td>
<td>Am. Lung Assoc.</td>
<td>7/1/81-6/30/83</td>
<td>12,240</td>
<td>25,012</td>
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<td>J. Bass</td>
<td>Center for Disease Control</td>
<td>10/1/82-10/1/84</td>
<td>8,000</td>
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<td>M. Conrad</td>
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<td>10/1/87-9/30/83</td>
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<td>Cooperating Clinics of the Am. Rheumatism Assoc. (through Univ. of AL, Birmingham)</td>
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<td>43,200</td>
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<tr>
<td>J. Hardin</td>
<td>Smith, Kline &amp; French</td>
<td>8/1/83</td>
<td>2,500</td>
<td>10,866 (through 1984)</td>
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<td>M. Kirkpatrick</td>
<td>Med. Sch. Pulmonary Faculty Training Award</td>
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<td>R. Kreisberg</td>
<td>Johnson &amp; Johnson</td>
<td>1/1/81-12/31/84</td>
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TOTAL FUNDING RECEIVED*  
279,759

TOTAL AWARDS FROM MULTIYEAR COMMITMENTS*  
1,182,850

*Direct Costs Only

VI. PENDING EXTRAMURAL APPLICATIONS - None

VII. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

During the past year, two faculty have resigned from the Department of Internal Medicine, one to accept another academic position (Sapira), the other to enter private practice (Goslin). During this period, we recruited three faculty: (1) Dr. Marcel Conrad, as Professor and Head of the Division of Hematology and Oncology; (2) Dr. Clifford Dacso, as an Assistant Professor and Head of the Division of Infectious Diseases and (3) Dr. Wanda Kirkpatrick, as an Assistant Professor and Nephrologist. During the coming year, Dr. Conrad will be recruiting two junior faculty for the Division of Hematology and Oncology and Dr. Dacso will be recruiting a single faculty member for the Division of Infectious Diseases. We have successfully recruited Dr. Ross Davis, currently in the Air Force, to join the Department of Internal Medicine and the Division of Cardiology in the Fall of 1984. Dr. Sapira's vacated position will be utilized to recruit a Director for the Division of Gastroenterology with the expectation that additional resources will be identified to recruit two additional junior faculty over the coming two years.
During the past year, the level of scholarly and research activity in the Department of Internal Medicine was comparable with that of previous years, but still not at a satisfactory level. The Department of Medicine continues to carry a heavy burden of teaching and clinical responsibility, which it does in an exemplary fashion. It is, however, significantly understaffed which perpetuates the lack of adequate scientific investigation by the faculty that are present and also serves as negative incentive for the recruitment of research-oriented faculty. There is also insufficient laboratory space to recruit productive research faculty or to develop research-oriented Divisions within the Department.
1982-1983
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF MEDICAL GENETICS

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED - none

IV. PRESENTATIONS


C. Mixon. Inhibition of Fragile X Expression by 5-Azacytidine (AXA) and by 5-Adenosylhomocysteine. Souther Genetic Groups Summer Meeting, Pensacola Beach, FL (1983).

C. Hoff. Lack of an Association Between Delivery of a Low Birth Weight Neonate and Young Maternal Age or "Reproductive Immaturity" in Black Primapara. Southern Genetics Group Summer Meeting, Pensacola Beach, FL (1983).


## V. EXTRAMURAL FUNDING

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>DATES OF AWARDS</th>
<th>CURRENT YEAR FUNDING*</th>
<th>TOTAL AWARD</th>
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<tbody>
<tr>
<td>W. Wertelecki</td>
<td>Community Health</td>
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<tr>
<td>W. Wertelecki</td>
<td>March of Dimes</td>
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<tr>
<td>W. Wertelecki</td>
<td>March of Dimes</td>
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TOTAL FUNDING RECEIVED

186,020

TOTAL AWARDS FROM MULTIYEAR COMMITMENTS*

186,020

## VI. PENDING EXTRAMURAL APPLICATIONS

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>PROJECT PERIOD</th>
<th>FIRST YEAR REQUEST*</th>
<th>TOTAL REQUEST</th>
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<tr>
<td>C.J. Hoff</td>
<td>NSF</td>
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<td>W. Wertelecki</td>
<td>Public Health</td>
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<tr>
<td>D.J. Wells</td>
<td>March of Dimes</td>
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<td>114,937</td>
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<tr>
<td>W. Wertelecki</td>
<td>(CoIn)</td>
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<td>D.J. Wells</td>
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<td>(CoIn)</td>
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TOTAL FIRST YEAR REQUEST*

295,843

TOTAL PROJECT PERIOD REQUEST*

524,587

Direct Cost Only*

## VII. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Faculty: Numerically the same, but due to the departure of Dr. E. Zorn and promotion of our ex-fellow, Dr. D. Superneau, to her position, faculty composition is slightly changed. Dr. H. Zellweger, during a three month tour,
assisted with teaching and clinical load. The number of student-fellows participating in Departmental activities continues to increase: one ongoing project (COM I); 3 summer projects (COM I, II, III); clinical rotation (COM IV); visiting fellows (2); graduate students (Penn State, University of Alabama, San Diego State). The 1983 COM II course in Medical Genetics has been considered one of the most successful so far. Guest speakers included Hans Zellweger, M.D. (University of Iowa); P.S. Gerald, M.D. (Harvard University); Petros Tsipouras, M.D. (Rutgers University); Ralph Garruto, Ph.D. (National Institutes of Health), who developed clinical aspects concerning muscular dystrophy; gene mapping and adrenal genital syndrome; molecular aspects of connective tissue disorders, etc.

Dr. Hoff's study of the epidemiology of adolescent pregnancy entered into its analytical phase during 1983. The general regional genetic data base has also reached a state of development amenable to analysis. We acquired a second microcomputer to support the data base, as well as to establish linkage with the University's mainframe IBM 370 computer. Another corollary of the development of this data base has been a linkage with dermatoglyphic research being performed by colleagues at the National Institute of Health, resulting in submission of a grant request to the National Science Foundation. In the area of cytogenetics, we have expanded our capabilities and now perform extensive studies of primates from the primate colony. Preliminary results from the analysis of primate spontaneous abortions indicate that a research proposal is desirable.

In the area of regional genetic services, the number of Outreach Genetic Clinics has been expanded from one to four, these being Pensacola, Montgomery, Dothan, and the latest, Monroeville. The integration of Medical Genetics with other programs continues. Monthly joining OB/GYN-Medical Genetics conferences are a new development. Mini-Residencies in Genetics, continuously sponsored since 1980 by the National March of Dimes Foundation, allow us to establish working linkages with regional practitioners. Mini-Residencies are tailored for different specialists and delivered at different sites. The recent 1983 series, emphasizing obstetrics and issues related to mental retardation and its prevention, were held in Baldwin County, Montgomery, and mobile. At a broader regional level, the Department was charged with coordinating, for a federally-sponsored symposium, a workshop concerning educational issues in genetics relevant to our 11-state southern area. Further, the Department hosted the 5th Annual Summer Meeting of the Southern Genetics Group, with nine southern states participating and was chosen to conduct a regional conference for the purpose of establishing a regional data base for the southern area of the United State. Planning for the conference, to take place in January, 1984, is underway. The 1984 Summer Meeting of the SGG will again be held in our Gulf Coast region with the assistance of our staff.

In summary, the activities of this Department have accelerated and are concurrent with an increasing number of research activities focussing on the relationship of neurofibromatosis to nerve-growth factor (jointly with the Department of Pathology); reproductive fitness of teenagers; dermatoglyphics as markers of development; centromere alterations in malformation syndromes; analysis of a regional genetic data base, and mechanisms related to the fragile X syndrome, to cite major pursuits.
1982-1983
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED - none

IV. PRESENTATIONS


E. Fowler. The Human Lymphoblastoid Rector for Epstein-Barr Virus. Florida State University, Tallahassee, FL (1982).


V. EXTRAMURAL FUNDING

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>DATES OF AWARD</th>
<th>CURRENT YEAR FUNDING*</th>
<th>TOTAL AWARD</th>
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<tbody>
<tr>
<td>J.H. Coggin</td>
<td>NIH-NCI</td>
<td>8/1/80-11/30/83</td>
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<td>J.H. Coggin</td>
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<td>O'Connor Fd.</td>
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<td>104,000</td>
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<td>J.H. Coggin</td>
<td>Legionnaire's Testing Project</td>
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<td>E. Fowler</td>
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<td>R.N. Lausch</td>
<td>Natl. Soc. to Prevent Blindness</td>
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<tr>
<td>S. Leinbach</td>
<td>NSF</td>
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EXTRAMURAL FUNDING (Cont'd)

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<tr>
<td>J.E. Oakes</td>
<td>NIH, NIAID</td>
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<tr>
<td>J.E. Oakes</td>
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<td>9/1/81-8/31/85</td>
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<td>S. Rohrer</td>
<td>NIH-NCI</td>
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<td>J. Coggin (CoIn)</td>
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<td>D.O. Wood</td>
<td>NIH</td>
<td>9/30/82-8/31/85</td>
<td>48,714</td>
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<td>D.O. Wood</td>
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<td>J.W. Rohrer</td>
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TOTAL FUNDING RECEIVED* 981,539
TOTAL AWARDS FROM MULTIYEAR COMMITMENTS* 2,909,674

VI. PENDING EXTRAMURAL APPLICATIONS

A. New

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>PROJECT PERIOD</th>
<th>FIRST YEAR REQUEST*</th>
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<td>J.H. Coggin</td>
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<td>Leukemia Society</td>
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<td>E.D. Leinbach</td>
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<td>J.W. Rohrer</td>
<td>Am. Cancer Soc.</td>
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<td>F.E. Austin</td>
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PENDING EXTRAMURAL APPLICATIONS (Con'd)

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<tr>
<td>D.O. Wood</td>
<td>NSF-Pres. Young Invest. Award</td>
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B. Renewals

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<th>FACULTY MEMBERS</th>
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<tbody>
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<td>J.H. Coggin</td>
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TOTAL FIRST YEAR REQUEST* 684,704
TOTAL PROJECT PERIOD REQUEST* 2,850,366

*Direct Cost Only

VII. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Dr. Elizabeth Fowler joined the department in July, 1983 as Associate Professor. Her specialty is in virology and immunology. Additionally, Dr. Shirley Rohrer (Instructor), Dr. Ed. Leinbach (Assistant Professor) and Dr. Jenifer Turco (Instructor) were also added to the faculty, giving immunology, bacteriology, and host-parasite expertise to the department. No faculty have left the department. Drs. Fowler, Turco and Rohrer have received new NIH funded research grants. Dr. Leinbach has project support from Great Lakes Chemical Company and is anticipating NIH support.

Current new departmental research projects center on: (1) establishing a collaborative Legionnaire's disease (L. pneumophila) project to investigate growth and dissemination of L. pneumophila by the cooling tower apparatus; (2) developing a collaborative effort with the Department of Pathology to investigate viroid mediated lymphoma disease induction; (3) developing a Creutzfeldt-Jacob research program with Pathology; (4) developing a monoclonal antibody reagent panel for tumor detection with a private sponsor and, (5) developing a collaborative research effort on herpetic ocular infection control with Alcon, Corp.

The department is initiating a lecture series outreach program to several regional colleges and universities which have no graduate training program. We hope to contact promising undergraduate students to interest them in our Ph.D. program.
1982-1983
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF NEUROLOGY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED - none

IV. PRESENTATIONS


V. EXTRAMURAL FUNDING

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>DATES OF AWARDS</th>
<th>CURRENT YEAR FUNDING*</th>
<th>TOTAL AWARD</th>
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TOTAL FUNDING RECEIVED* 415,828

TOTAL AWARDS FROM MULTIYEAR COMMITMENTS 967,365

Direct Cost Only*

VI. PENDING EXTRAMURAL APPLICATIONS - none

VII. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES IN PROGRESS

Research - During the fourth full year of activity, work was brought to fruition on the NINCDS stroke data bank contract for the population-based study of stroke. Renewal for this contract was received effective July 1, 1982 for another three years with an additional two following a TMR at year three. Participation in the Aspirin-Persantine trail for TIA and the EC/IC Bypass study continued into their final phases, currently involving follow-
up of all entered patients, prior to the completion of both studies.

Clinical activities in Mobile - The inpatient service continues to pro-
vide an average census of 12-15 patients, an adequate number for the size
of our staff.

Training program - The residency program added a new member on January
1983, Dr. J.E. McDaniels, U.S.A. '79, who came from the Family Practice
program, Columbus, Georgia. One second year resident, Dr. Robert Allen,
and two third year residents, Drs. Judy White and Kent Robinson, complete
the program. All trainees have taken the annual inservice examination
and scored above the 50th percentile nationally.

Dr. Richard Sawyer, the first resident enrolled in our program, will be
graduating in June 1983, after which he will join the Department as an
Instructor in Neurology. In addition, he will be taking a 1-year EEG
Fellowship under the direction of Dr. E.T. Richey.

Two research fellows trained in our Department during 1982: (1) Dr. Jorge
Tapia, a neurologist from Santiago, Chile, spent six months (July to
December, 1982) with us, following his completion of an 18-month training
period in neuropathology at the Massachusetts General Hospital in Boston.
His activities consisted in following the daily rounds of the adult
Neurology Service, as well as participating in clinical research, the
latter activity having generated a publication to appear in the September
'83 issue of the journal "Stroke". (2) Dr. Fernando Pinto, a pediatric
neurologist from Santiago, Chile, spent three months (September to December,
1982) in training on Head Ultrasonography, under the direction of Dr. G.S.
Silverboard. He acquired expertise with this important imaging technique,
which he will apply upon return to his country.

Staff Changes - Dr. R.T. Richey was appointed effective September 1, 1982
to direct the Clinical Neurophysiology Laboratory. A nationally-known
electroencephalographer, he is the author of the most popular text on the
subject. Drs. Chalhub (Clinical Associate Professor) and Silverboard
(Clinical Assistant Professor) continue to assist in pediatric neurology
until a full time director is appointed. Dr. J. P. More resigned his
position as chairman of the Department effective July 1, 1983. He will be
taking a new position as Sciarra Professor of Clinical Neurology at the
Neurological Institute, Columbia University, in New York. While Dr. C.S.
Kase will be Acting Chairman of the Department, a Search Committee has been
created to identify a candidate for the Chairmanship.
1982-1983
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF NEUROSURGERY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS
   A. Full length published articles
      E.A. Quindlen. Metastatic Tumors of the Spine in Operative Neuro-
      surgical Technique. In: H.H. Schmidek and W.H. Sweet (Eds.) Indications
   B. Articles in press
      Edward H. Oldfield, Giovanni Di Chior, Eugene A. Quindlen, Kenneth G.
      Rieth and John L. Doppman. Successful Treatment of a Group of Spinal
      Cord Arteriovenous Malformations by Interruption of Dural Fistula.
      Eugene A. Quindlen. Intracranial Neoplasms. Chapter in Current
      Diagnosis 7 (1983).
      Kenneth G. Rieth and Eugene A. Quindlen. Calcified Chronic Spinal
      J.C. Arroyo and E.A. Quindlen. Accumulation of Vancomycin Following

II. PUBLISHED ABSTRACTS - none
III. BOOKS PUBLISHED - none

IV. PRESENTATIONS
   E.A. Quindlen. Epidural Spinal Cord Arteriovenous Malformation. The
   E.A. Quindlen. High-Resolution IEF Analysis of Alpha-One-Acid Glyco-
   E.A. Quindlen. Science for the Clinician. University of South Alabama
   Medical Alumni Meeting, Point Clear, AL (1983).

V. EXTRAMURAL FUNDING - none
VI. PENDING EXTRAMURAL APPLICATIONS - none

VII. The Department of Neurosurgery has been reorganized under the direction
     of the new Chairman, Dr. Eugene A. Quindlen, who was appointed Professor
     and Chairman of the Department as of January 1, 1983. The previous faculty
member, Dr. David Dean, Associate Professor of Neurosurgery left the faculty as of December 31, 1982 to enter private practice of neurosurgery. Since Dr. Quindlen's arrival, the Department has been reorganized in a number of areas. Firstly, the billing procedures of the department have been converted from hand billing to completely computerized billing with a unified format. Secondly, Dr. Thomas Spoor was recruited from the University of South Carolina to the Division of Ophthalmology, Department of Surgery with a joint appointment in the Department of Neurosurgery. Dr. Spoor's expertise is neuro-orbital tumors, an area of surgical ophthalmology which involves cooperation with neurosurgery. Dr. Spoor will be a needed addition to the Neuroscience community at the University and to the community as a whole in Mobile since there is no neuro-opththalmologist in Mobile. Additional recruiting has been carried out and several other potential candidates are being recruited for an assistant professor position in the Department of Neurosurgery and will be interviewed in the coming months.

The neurosurgical research laboratory in the research building has been reactivated and with an initial funding by the Universith of $20,000 for equipping the laboratory, the laboratory has been completely equipped and is currently carrying out pilot experiments which will lead to a major sponsored grant. In conjunction with the Department of Neurology and Pathology, a weekly combined Neurosurgery/Neurology Grand Rounds followed by Neuroradiology Grand Rounds has been now approved for CME credit and offers an excellent teaching medium for medical students and residents alike. The Department of Neurosurgery is currently collaborating with the Department of Pathology, in specific Dr. Frank Bastian in Neuropathology on several combined projects involving research into plasminogen activators of brain tumors and in the research involving specific proteins of spiroplasma. These initial projects hopefully will lead to major funding grants. Dr. Quindlen has been approved as a staff member for the Crippled Childrens Service of the State of Alabama and is currently carrying out a monthly clinic at the Crippled Childrens Clinic here in Mobile. Future directions are centered around recruitment of additional faculty members and the application for funding of research projects.
1982-1983

SUMMARY OF SCHOLARLY ACTIVITIES

DEPARTMENT OF OBSTETRICS/GYNECOLOGY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


member, Dr. David Dean, Associate Professor of Neurosurgery left the faculty as of December 31, 1982 to enter private practice of neurosurgery. Since Dr. Quindlen's arrival, the Department has been reorganized in a number of areas. Firstly, the billing procedures of the department have been converted from hand billing to completely computerized billing with a unified format. Secondly, Dr. Thomas Spoor was recruited from the University of South Carolina to the Division of Ophthalmology, Department of Surgery with a joint appointment in the Department of Neurosurgery. Dr. Spoor's expertise is neuro-orbital tumors, an area of surgical ophthalmology which involves cooperation with neurosurgery. Dr. Spoor will be a needed addition to the Neuroscience community at the University and to the community as a whole in Mobile since there is no neuro-opthalmologist in Mobile. Additional recruiting has been carried out and several other potential candidates are being recruited for an assistant professor position in the Department of Neurosurgery and will be interviewed in the coming months.

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1982-1983
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF OBSTETRICS/GYNECOLOGY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles

Sezer Aksel and C.R. Abbe. A Pelvimetry Method for Predicting Peri-
natal Mortality in Pregnant Squirrel Monkeys (Saimiri sciureus). Lab.

G.C. Andrinoopoulos and H.W. Mendenhall. Prostaglandin F2a in the

D.H. Clapp and R.H. Wiebe. The Effect of Hyperprolactinemia on the

Role of Surgery in the Management of Gestational Thrombophlastic

W.T. Creasman and J.C. Weed, Jr. Carcinoma of Endometrium (FIGO
Stages I and II) Clinical Features and Management in Gynecologic On-
cology. In: Malcolm Coppleson (Ed.) Fundamental Principles and

W.T. Creasman, G.B. Hill, J.C. Weed, Jr. and S.A. Gall. A Trial of

W.T. Creasman and J.C. Weed, Jr. Diagnosis and Management of In
Situ Carcinoma, Microinvasive Carcinoma and Stage I Carcinoma of the
Cervix. In: Suspan and Christian (Eds.) Reid's Controversy in Ob-
stetrics and Gynecology III, W. B. Saunders Co., Philadelphia, PA,

A.A. Lauber and M.L. Souma. Use of Toluidine Blue for Documentation

Betty Rosoff and Edward J. Diamond. Effect of Perphenazine on Growth
and Zinc-65 Uptake of the Rat Adenocarcinoma, R-3327. Prostate 3:615-
622 (1982).

M.L. Souma and C. Daniel Cabaniss. The Valsalva Maneuver: A Test of


B. Articles in press


II. PUBLISHED ABSTRACTS

C.R. Abeel and Sezer Aksel. A Technique to Aid in Assessment of Reproductive Fitness of the Female Bolivian Squirrel Monkey (Saimiri sciureus). Meeting Abstract 33rd Annual Session of the American Association for Laboratory Animal Science (1982).


IV. PRESENTATIONS


B. Rosoff. Effect of L-Dopa on Prolactin Secretion, Tumor Growth and Zinc-65 Uptake in Rats Bearing R-3327 Prostate Tumor. 13th International Cancer Congress, Seattle, WA (1982).


V. EXTRAMURAL FUNDING

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>DATES OF AWARD</th>
<th>CURRENT YEAR FUNDING*</th>
<th>TOTAL AWARD</th>
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<tr>
<td>E.J. Diamond &amp; S. Aksel</td>
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<td>R.H. Weibe.</td>
<td>Searle Aldactone Demulc</td>
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TOTAL FUNDING RECEIVED* 1,500

TOTAL AWARDS FROM MULTIYEAR COMMITMENTS* 11,500
### VI. PENDING EXTRAMURAL APPLICATIONS

<table>
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<tr>
<th>FACULTY MEMBERS</th>
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<th>PROJECT PERIOD</th>
<th>FIRST YEAR REQUEST*</th>
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<td>E.J. Diamond, R.H. Wiebe, NIH</td>
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<td>S. Aksel, C.R. Abeel, L.E. Williams</td>
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<tr>
<td>M.L. Cabaniss</td>
<td>Ala. Dept. of Public Health</td>
<td>10/1/83-9/30/84</td>
<td>131,667</td>
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TOTAL FIRST YEAR REQUEST*  

TOTAL PROJECT PERIOD REQUEST*  

*Direct Cost Only

### VII. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Over the past year, three additional faculty have been recruited with two beginning their work in the Fall of 1982 and one in the Fall of 1983. Dr. Kenneth Brewington has been recruited to assist in the Division of Gynecologic Oncology and Dr. Micki Cabaniss has joined the Department as Associate Professor and Director of the Division of Maternal-Fetal Medicine. As of September, 1983 Dr. David Kitay, previously Director of the Residency Program in Pensacola, will be joining the Department as Associate Professor and will concentrate his activities in the Division of Maternal-Fetal Medicine. Dr. George Andrinopoulos, Assistant Professor, has elected to leave the University and enter private practice.

Several research projects are being developed as Dr. Cabaniss has an active interest in fetal evaluation as well as in nutrition in pregnancy and she will be assisted in her work by a nurse practitioner. It is anticipated Dr. Kitay will aid in computerizing data collected in the Department as well as in the development of a Hematology Clinic as he has a national reputation in hematology in pregnancy.

Since the opening of the Health Service Foundation Outpatient area, there has been increasing utilization of the Perinatal Unit which will necessitate acquisition of additional ultrasound equipment as well as fetal monitors.

Recruiting continues for additional faculty in the Division of Maternal-Fetal Medicine. It is anticipated that a fellowship program will be approved during late 1983 for Maternal-Fetal Medicine. A fellowship has been approved this year in the Division of Reproductive Endocrinology and candidate for the fellowship are being actively sought. In that division, continuing research efforts are being carried out in collaboration with the individuals managing the primate colony and several publications have been accepted over the past year.
1982-1983
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF ORTHOPAEDIC SURGERY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles - none

B. Articles in press


II. PUBLISHED ABSTRACTS - none

III. BOOKS PUBLISHED - none

IV. PRESENTATIONS


V. EXTRAMURAL FUNDING - none
VI. PENDING EXTRAMURAL APPLICATIONS - none
VII. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

During the past year, a great deal of our activity has been centered at the Health Services Foundation Out-Patient Building. The facility was opened in June of 1982, but it was not until about the beginning of the 1982-83 fiscal year that the Orthopaedic Surgery/Surgery area became fully operational. The space in this module is shared equally by the Department of Surgery and the Department of Orthopaedics. There are three half day clinic sessions per week which are designated as clinics and in addition there are two half day sessions that are private referral patients of the faculty. Overall, it is estimated that approximately 10,000 out-patient visits to the Department of Orthopaedic Surgery will take place during this fiscal year. The residents and students take part and it is an excellent learning experience.

Dr. Frederick N. Meyer was added to the faculty just before the beginning of this fiscal year. Dr. Meyer graduated from medical school at the University of Iowa and completed his orthopaedic residence at the University of Utah. He then served on active duty with the U.S. Navy for a period of two or three years before taking a year’s hand fellowship in Los Angeles. For the immediate two years prior to joining us at the University of South Alabama, Dr. Meyer was in charge of the Hand Service at Bethesda Naval Hospital. Dr. Meyer is now in charge of our hand program. His knowledge and ability have enabled the undertaking of much more sophisticated reconstructive problems than was possible before, including micro-vascular surgery and reimplantation of digits and extremities. This adds a new broad dimension to our orthopaedic service and to our orthopaedic residency program.

The Orthopaedic Residency Program is now entirely full for the first time ever to the best of my knowledge. During the past year, the program has been changed in that two categorical orthopaedic interns have been added. This in reality represents only a paper change because these two orthopaedic PGY I positions continue on rotations that are the same as the surgery PGY I positions.
We need one additional orthopaedic faculty member immediately and have been recruiting actively during the past year. By the beginning of the 1984-85 fiscal year, we will need a second new orthopaedic faculty member and are beginning to recruit for that position also.

All in all, the past fiscal year has been an exciting one and we believe the next fiscal year will be equally so.
1982-1983
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF PATHOLOGY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


B. Articles in press


B.D. Bennett and W.A. Gardner, Jr. Male Genitourinary System.
In: S.S. Spicer, A.J. Garvin and G.R. Hennigar (Eds.) Application of Histochemistry to Pathologic Diagnosis (For Clinical and Anatomical Pathology, Marcel Dekker, Inc., New York.


V.N. Mankad, W. Crist, R.D.A. Peterson, A. Carroll and V. Dev. Unusual Translocations (t(2,6) and (18,22) in Acute Myelocytic Leukemia. Cancer Cytogenet.


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED - none

IV. PRESENTATIONS


B.D. Bennett. Opportunities in Medical Education. Medical Representative Program, Troy State University, Troy, AL (1983).

B.D. Bennett. Opportunities in Medical Education. Medical Representative Program, University of Alabama, Tuscaloosa, AL (1983).

B.D. Bennett. Opportunities in Medical Education. Medical Representative Program, Birmingham Southern College, Birmingham, AL (1983).

B.D. Bennett. Opportunities in Medical Education. Medical Representative Program, Samford University, Birmingham, AL (1983).

B.D. Bennett. Opportunities in Medical Education. Medical Representative Program, University of North Alabama, Florence, AL (1983).

B.D. Bennett. Opportunities in Medical Education. Medical Representative Program, Vanderbilt University, Nashville, TN (1983).

B.D. Bennett. Opportunities in Medical Education. Medical Representative Program, Auburn University, Auburn, AL (1983).

B.D. Bennett. Opportunities in Medical Education. Medical Representative Program, Tulane University, New Orleans, LA (1983).


W.A. Gardner, Jr. Trends and Opportunities in Medical Education. University of Alabama, Tuscaloosa Medical Representative Program, Tuscaloosa, AL (1983).


W.A. Gardner, Jr. Future Directions in Medical Education. Medical Repre- sentative Program, Tulane University, New Orleans, LA (1983).


J.R. Stafford. Dural Metastatic Disease as an Unusual Case of Spontaneous Subdural Hematoma. Southern Medical Association Fall Meeting, Pearls in Anatonic Pathology, Atlanta, GA (1982).


V. EXTRAMURAL FUNDING

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>DATES OF AWARD</th>
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<tr>
<td>F.O. Bastian</td>
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<td>R.D.A. Peterson</td>
<td>Mobile Kiwanis Club</td>
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<td>M.H. Pollock</td>
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<td>M.H. Pollock</td>
<td>Abbott</td>
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<td>E.C. Toren, Jr.</td>
<td>NSF</td>
<td>5/15/81-10/31/84</td>
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TOTAL FUNDING RECEIVED*  136,186

TOTAL AWARDS FROM MULTIYEAR COMMITMENTS*  321,847

VI. PENDING EXTRAMURAL APPLICATIONS

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<th>FACULTY MEMBERS</th>
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<td>W. Wilborn &amp; J. Funkhouser (CoIn)</td>
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<td>Am. Cancer Soc.</td>
<td>1/1/84-12/31/86</td>
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PENDING EXTRAMURAL APPLICATIONS (Cont'd)

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<td>D.J. Wells</td>
<td>March of Dimes</td>
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<td>W. Wertelecki (CoIn)</td>
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<td>D.J. Wells</td>
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TOTAL PROJECT PERIOD REQUEST* 1,300,985

*Direct Cost Only

VII. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Pathology Faculty added in the past year include Dr. Frank O. Bastian, who in addition to providing teaching and diagnostic services in neuropathology, has also established neuropathology research laboratories. Secondly, Dr. David J. Wells has provided valuable leadership in directing the research and development aspects of the diagnostic chemistry laboratory and is in the process of setting up his own research operation. Thirdly, Dr. Raymond D.A. Peterson has been successful in establishing diagnostic and research immunopathology laboratories and is a valued and productive member of the Department.

The Sophomore Course in Pathology-Laboratory Medicine continues to receive extraordinarily favorable student evaluations and although a number of innovations have been incorporated into the course, its central strength continues to be the commitment of the Pathology Faculty to provide close student-faculty interaction.

Completion of the Forensic Sciences Building will enable us to consolidate the service functions of the Department, and with the expected availability of capital equipment funds the diagnostic instrumentation should be brought up to reasonable standards. The final report on computer facilities for the Medical Center has been submitted and endorsed by the Board of Trustees. Laboratory computerization should begin during the coming year with an expected expenditure of approximately $5000,000 for equipment and software.

Problems relating to the financial impact of the Health Services Foundation Laboratory were documented in last year's narrative summary. We continue to be victims of the "last dollar" phenomenon. Further, we continue to honor requests for laboratory studies on patients known by their physicians to be unable to pay. The actual expenses incurred thereby result in a loss of real dollars to the Department. The overall deficit for this operation now stands at approximately four hundred thousand dollars ($400,000). The above circumstance is likely to be compounded during the coming year with the possibility of establishing separate resident clinics and the need to provide
laboratory services to such clinics. It is also likely to be compounded by the attitude in some quarters that the easily performed and profitable laboratory tests are fair game for other departments.

In summary, I believe the activities reflected in the above report are indicative of growth of the Department of Pathology in the direction of a broadly based, productive, and well-balanced Department. We have every confidence that with the continued support that we have enjoyed, the Department can mature into a truly outstanding Department of Pathology.
1982-1983
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF PEDIATRICS

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED


IV. PRESENTATIONS


R.C. Boerth. Pediatric Cardiology. Thomasville Hospital, Thomasville, AL (1982).


S.F. Kemp. Thyroid Disease in Childhood and Adolescence. Family Practice continuing Medical Education Program, Tryo and Dothan, AL (1983).


R.M. Suskind. Malnutrition and the Immune Response. The Midwest Nutrition Education and Research Foundation and The Department of Surgery, University of Health Sciences/The Chicago Medical School, Chicago, IL (1982).


R.M. Suskind. Lecture Series - 1) Protein Calorie Malnutrition, 2) Nutrition and the Patient with Cystic Fibrosis, 3) Pediatric Obesity. Pediatric GI and Nutrition Association, Tel O Shermar Hospital, Tel Aviv, Israel (1982).

R.M. Suskind. Protein Calorie Malnutrition in the Hospitalized Patient. Pediatric Grand Rounds, Department of Pediatrics, Ashkelan Hospital, Ashkelan, Israel (1982).


R.M. Suskind. Protein Calorie Malnutrition in the Hospitalized Patient. Department of Pediatrics, Burkolein Hospital, Jerusalem, Israel (1982).


S.F. Kemp. Thyroid Disease in Childhood and Adolescence. Family Practice continuing Medical Education Program, Troyo and Dothan, AL (1983).


R.M. Suskind. Malnutrition and the Immune Response. The Midwest Nutrition Education and Research Foundation and The Department of Surgery, University of Health Sciences/The Chicago Medical School, Chicago, IL (1982).


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R.M. Suskind. Protein Calorie Malnutrition in the Hospitalized Patient. Department of Pediatrics, Burkolein Hospital, Jerusalem, Israel (1982).


S.F. Kemp. Thyroid Disease in Childhood and Adolescence. Family Practice continuing Medical Education Program, Tryo and Dothan, AL (1983).


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R.M. Suskind. Protein Calorie Malnutrition. Pediatric Grand Rounds, Kaplan Hospital, Rehovot, Israel (1982).

R.M. Suskind. Lecture Series - 1) Protein Calorie Malnutrition, 2) Nutrition and the Patient with Cystic Fibrosis, 3) Pediatric Obesity. Pediatric GI and Nutrition Association, Tel O Shermar Hospital, Tel Aviv, Israel (1982).

R.M. Suskind. Protein Calorie Malnutrition in the Hospitalized Patient. Pediatric Grand Rounds, Department of Pediatrics, Ashkelan Hospital, Ashkelan, Israel (1982).


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<td>Cystic Fibrosis Fd.</td>
<td>3/1/83-2/29/84</td>
<td>2,948</td>
<td>2,943</td>
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<tr>
<td>V. Mankad</td>
<td>NIH</td>
<td>10/1/82-1/30/85</td>
<td>298,202</td>
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<tr>
<td>Keith J. Peevy</td>
<td>Alabama Chapter</td>
<td>7/1/83-6/30/85</td>
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<tr>
<td></td>
<td>Amer. Heart Assoc.</td>
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<td>90,000</td>
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<td><strong>TOTAL FUNDING RECEIVED</strong>*</td>
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<td><strong>TOTAL AWARDS FROM MULTI YEAR COMMITMENTS</strong>*</td>
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### VI. PENDING EXTRAMURAL APPLICATIONS

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>PROJECT PERIOD</th>
<th>FIRST YEAR REQUEST*</th>
<th>TOTAL REQUEST</th>
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<tbody>
<tr>
<td>B.S. Baliga</td>
<td>NIH</td>
<td>4/1/84-3/31/87</td>
<td>85,072</td>
<td>240,772</td>
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<td>J. Gaubatz (CoIn)</td>
<td></td>
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<tr>
<td>B.S. Baliga</td>
<td>NSF</td>
<td>4/1/84-3/31/87</td>
<td>111,834</td>
<td>324,262</td>
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<td>J. Gaubatz (CoIn)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Stephen F. Kemp</td>
<td>NIH</td>
<td>10/1/83-11/30/86</td>
<td>33,697</td>
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<tr>
<td>R. Blaine Moore</td>
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<td>12/01/83-11/30/86</td>
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<td><strong>TOTAL FIRST YEAR REQUEST</strong>*</td>
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<td>265,438</td>
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<td><strong>TOTAL PROJECT PERIOD REQUEST</strong>*</td>
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<td>781,526</td>
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</table>

*Direct Cost Only
VII. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Despite the unsettling effect of the Department's external review and a change of administrative leadership, the Department has continued to improve its image as a provider of excellent pediatric care, to be successful in its training of residents and students, and to be academically productive.

Training - Residents

As of July 1983, the Department has probably the best group of residents it has ever had, with the Department filling its five internship positions by going to number 9 on its list of applicants. The success in recruitment has no doubt been a reflection of the quality of the faculty and the design of the housestaff program. In addition, the Ambulatory Center, which has received national recognition, has been an important factor in the successful recruitment of residents. As a reflection of the quality of residents who are now in the program, the present housestaff had a mean pediatric minboard score at the 60th percentile with 5 out of the 16 scoring above the 86th percentile. In previous years the residents as a group had never had a mean score above the 49th percentile.

Training - Students

The students have continued to do well on their pediatric rotation with the class of 1983 scoring in the 66th percentile on national boards as compared to a mean of the 47th percentile for the other specialties. In addition, 15% of the class of 1983 entered Pediatrics as compared to a national average of 10-11%. Pediatrics has continued to be a popular rotation with the students with more than 93% ranking the rotation as excellent, very good or good.

Research

During the 1982-1983 academic year, members of the Department published or have in press 48 full length articles and 18 published abstracts. In addition, one of the members of the Department was responsible for co-editing a text entitled Marker Protein in Inflammation. Faculty members participated in 33 presentations throughout the state, nation and world. In addition, the members of the Department were successful in obtaining more than $469,000 in extramural funds.

Patient Care

Faculty patient care activities have continued to increase both on the in-patient and out-patient services reaching a record of more than $940,000 in generated income. Both Dr. Harris' and Dr. Chua-Lim's model private practices have been successful in fully generating their entire income and fringe benefits. Dr. Larry Sindel, who has recently joined the faculty as a colleague of Dr. Harris', should be able to be fully supported on self generated income. As a result of the Department's sub-specialty activities moving out to the main campus and an interim clinic manager who was unable to coordinate the Department's administration effectively, the Department experienced a rather significant deficit during the year. With the
addition of our present clinic manager, David Kinsaul, this deficit has been completely eliminated. During the year the Department was successful in recruiting Dr. Stephen Chartrand in Pediatric Infectious Disease, Dr. Larry Sindel as an Associate Director of Allergy/Immunology and Dr. Michael Artman, as Associate Director of Pediatric Cardiology. In addition, Dr. Christina Chua-Lim joined the Department as Assistant Director of the Ambulatory Program. Unfortunately, during the same one year period, Dr. Horowitz accepted a faculty position at St. Jude's in Pediatric Oncology and Drs. Anderson and Rosenbaum entered private practice.

In spite of its rather uncertain administrative course during this past year, the Department of Pediatrics has continued to remain strong in fulfilling its training, research, and patient care responsibilities. It is anticipated with new administrative leadership that additional successes will be achieved and that the administration of the College of Medicine will have an opportunity to continue its support of the Department.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED


IV. PRESENTATIONS


S.W. Schaffer. Role of Taurine in the Heart. Univ. of Okayama, Okayama, Japan, September (1982).


### V. EXTRAMURAL FUNDING

<table>
<thead>
<tr>
<th>FACULTY</th>
<th>AGENCY</th>
<th>DATES OF AWARD</th>
<th>CURRENT YEAR FUNDING*</th>
<th>TOTAL AWARD</th>
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<tr>
<td>J.E. Ayling</td>
<td>NIH</td>
<td>7/1/81-6/30/85</td>
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<td>322,636</td>
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<tr>
<td>J.E. Ayling</td>
<td>NIH</td>
<td>9/1/81-2/29/84</td>
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<td>L.J. Eddy</td>
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<td>33,950</td>
<td>107,233</td>
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<td>G. Ghai</td>
<td>Ala. Heart</td>
<td>7/1/82-8/31/84</td>
<td>11,586</td>
<td>11,586</td>
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<td>S. Greenberg</td>
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<td>12/1/81-11/30/84</td>
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<td>G. Longenecker</td>
<td>Council for Tobacco Res. Upjohn</td>
<td>7/1/81-6/30/84</td>
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<td>215,000</td>
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<tr>
<td>G. Longenecker</td>
<td></td>
<td>open</td>
<td>11,000</td>
<td>30,000</td>
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<tr>
<td>S.W. Schaffer</td>
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<td>S.W. Schaffer</td>
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<td>S.W. Schaffer</td>
<td>Upjohn</td>
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<td>S.W. Schaffer</td>
<td>Distilled Spirits Council</td>
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EXTRAMURAL FUNDING (Cont’d)

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<th>FACULTY</th>
<th>AGENCY</th>
<th>DATES OF AWARD</th>
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<th>TOTAL AWARD</th>
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<td>R. Boerth</td>
<td>PMAF</td>
<td>7/1/83-6/30/84</td>
<td>16,814</td>
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<td>R. Olson</td>
<td>NIH</td>
<td>7/1/83-6/30/84</td>
<td>36,000</td>
<td>71,000</td>
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<td>S. Shenolikar</td>
<td>ADA</td>
<td>8/1/83-7/31/84</td>
<td>23,776</td>
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<td>R. Olson</td>
<td>AHA</td>
<td>7/1/83-6/30/84</td>
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<td>S.J. Strada</td>
<td>NIMH</td>
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<td>25,575 (subcontract</td>
<td>54,362</td>
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<td>UTHSC Houston)</td>
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<tr>
<td>W.J. Thompson &amp;</td>
<td>NIH</td>
<td>9/1/83-8/31/84</td>
<td>101,180</td>
<td>101,180</td>
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<tr>
<td>S.J. Strada</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W.J. Thompson</td>
<td>Pulaski County Cancer Society</td>
<td>Unrestricted</td>
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<tr>
<td>W.J. Thompson</td>
<td>Upjohn</td>
<td>Unrestricted</td>
<td>3,500</td>
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TOTAL FUNDING RECEIVED*  
681,581

TOTAL AWARDS FROM MULTIYEAR COMMITMENTS*  
1,713,318

VI. PENDING EXTRAMURAL APPLICATIONS

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>PROJECT PERIOD</th>
<th>FIRST YEAR REQUEST*</th>
<th>TOTAL REQUEST</th>
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<tr>
<td>J.E. Ayling</td>
<td>NIH</td>
<td>3/1/84-2/29/89</td>
<td>123,152</td>
<td>641,126</td>
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TOTAL FIRST YEAR REQUEST*  
123,152

TOTAL PROJECT PERIOD REQUEST*  
641,126

*Direct Cost Only

VII. Drs. Eddy, Ghai, Greenberg and Oei have left the Department. During the academic year, Dr. Samuel J. Strada was appointed Professor and Chairman and assumed this position on a full-time basis July 1, 1983. Drs. W. J. Thompson (Professor), Shirish Shenolikar (Assistant Professor), R.D. Olson (Assistant Professor) and W. Stroo (Assistant Professor) accepted primary positions in the Department.
The Department has also undergone some alterations in physical facilities. Tissue culture and dishwashing facilities are now available. The departmental office and conference room have been renovated and relocated. Several new items of equipment were purchased. These include a multiuser Beckman LS 5800 scintillation counter, a 5500 gamma counter, an L8-70 ultracentrifuge and a J-21 M refrigerated centrifuge. Several fixed-angle and swinging-bucket rotors have been purchased; an elutriator rotor system, used to isolate homogenous cell populations under the mildest conditions, was acquired.

The Division of Clinical Pharmacology headed by Dr. Robert C. Boerth, has moved its basic research unit to the Department. This move is aimed at strengthening the Division's research efforts by providing its Faculty with critical input and interaction with the other members of the Department. The educational component of this unit should also benefit since an introduction to clinical pharmacology has been incorporated into the basic science course.

Objectives for the next academic year include: 1) establishment of the research laboratories of the new faculty with a major emphasis in biochemical and molecular pharmacology; 2) coordination of our efforts in graduate education under the leadership of Dr. W. Joseph Thompson who will serve as Director of our graduate program; 3) to improve the medical school pharmacology course in both content and effort; 4) development of a postdoctoral program in clinical pharmacology; 5) intensify our efforts in attracting postdoctoral fellows to the Department and, 6) the development of long-range plans for the educational and research pursuits of the Department.
1982-1983
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF PHYSIOLOGY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


The Department has also undergone some alterations in physical facilities. Tissue culture and dishwashing facilities are now available. The departmental office and conference room have been renovated and relocated. Several new items of equipment were purchased. These include a multiuser Beckman LS 5800 scintillation counter, a 5500 gamma counter, an L8-70 ultracentrifuge and a J-21 M refrigerated centrifuge. Several fixed-angle and swinging-bucket rotors have been purchased; an elutriator rotor system, used to isolate homogenous cell populations under the mildest conditions, was acquired.

The Division of Clinical Pharmacology headed by Dr. Robert C. Boerth, has moved its basic research unit to the Department. This move is aimed at strengthening the Division's research efforts by providing its Faculty with critical input and interaction with the other members of the Department. The educational component of this unit should also benefit since an introduction to clinical pharmacology has been incorporated into the basic science course.

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1982-1983
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF PHYSIOLOGY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


B. ARTICLES IN PRESS


D.N. Granger. Career Opportunities in Physiology: Basic Science Department in a State Medical School. The Physiologist.


II. PUBLISHED ABSTRACTS


A.E. Taylor. Macromolecule Transport. Symposia on Capillary Transport. IUPS, Australia


III. PUBLISHED BOOKS


IV. PRESENTATIONS


D.N. Granger. Oxygen Radical and Intestinal Ischemia. Texas A&M University, Dept. of Physiology, College Station, TX (1982).


P.R. Kvietyys. Regulation of Capillary Filtration Coefficient in Splanchnic Organs. Division of Experimental Medicine, Pharmacia, Uppsala, Sweden (1982).


P.R. Kvietyys. Regulation of Intestinal Oxygenation. Department of Surgery, Grenoble University, Grenoble, France (1982).


V. EXTRAMURAL FUNDING

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>DATES OF AWARD</th>
<th>CURRENT YEAR FUNDING*</th>
<th>TOTAL AWARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.E. Taylor (PI)</td>
<td>NIH</td>
<td>7/1/82-6/30/84</td>
<td>22,240</td>
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<td>N. Mortillaro</td>
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<td>9/30/81-8/31/84</td>
<td>59,759</td>
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<td>J.M. Downey</td>
<td>American Heart Association</td>
<td>7/1/82-6/30/85</td>
<td>22,268</td>
<td>166,850</td>
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<td>J.M. Downey</td>
<td>NIH</td>
<td>5/1/82-4/31/85</td>
<td>44,018</td>
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<td>J.M. Downey</td>
<td>Osamu Imura</td>
<td>9/30/83-11/14/83</td>
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TOTAL FUNDING RECEIVED* 475,885

TOTAL AWARDS FROM MULTIYEAR COMMITMENTS* 2,015,020
VI. PENDING EXTRAMURAL APPLICATIONS

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<tr>
<th>FACULTY</th>
<th>AGENCY</th>
<th>PROJECT PERIOD</th>
<th>FIRST YEAR REQUEST*</th>
<th>TOTAL REQUEST</th>
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<tbody>
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<td>M. Townsley</td>
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<td>P.R. Kvetys</td>
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<td>P.R. Kvetys</td>
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TOTAL FIRST YEAR REQUEST* 223,472
TOTAL PROJECT PERIOD REQUEST* 1,078,099

*Direct Costs Only

VII. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

During the last year, the Department of Physiology has experienced growth in all research programs. First, 31 full papers were published, 46 are in press and 3 books were edited by department members with 2 others to be be published in early 1984. Secondly, 5 postdoctorals have joined our research team for the coming year and 2 graduate students received their Ph.D. degrees this year. Thirdly, members of the department organized several symposia this year and participated in other located from San Diego to Hong Kong. For the upcoming International Physiological Society meeting, three members of the department have been invited to present their work in symposia. Fourthly, all members of the department have research funds from extramural sources and 1 RCDA, Young Investigator Award and Parker B. Francis Fellowship are currently funded within the department. Fifthly, 3 members of the department are on editorial boards of our Society Journals and 1 is an associate editor who handles 200 manuscripts per year. Sixthly, 2 members of the department serve on NIH study sections and 4 members of the department have participated in NIH site visits during the past year.

Our teaching program has not changed greatly, but the students in the past class scored exceptionally well on the mini-national board test in physiology. During the next year, a significant change will occur in our teaching program for the upcoming year in that the first year will be divided into 5 blocks. This change insures a less clustered testing schedule and fewer courses per block.

In summary, the year has been excellent. Our graduate program is growing and has produced its first graduates. The research program is well funded and several visiting lecturers spend time in our research laboratories each year. Our teaching program is sound and the planned new curriculum should provide a better time frame for teaching physiology. And finally, our postdoctoral program has attracted young investigators from active laboratories in the USA, Sweden and Japan.
1982-1983
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF PSYCHIATRY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS - none

II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED - none

IV. PRESENTATIONS


V. EXTRAMURAL FUNDING

<table>
<thead>
<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>DATES OF AWARD</th>
<th>CURRENT YEAR FUNDING*</th>
<th>TOTAL AWARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.J. Kehoe, M.L. Cepeda, C.R. Hicks, &amp; Eduard Gfeller (CoI)</td>
<td>HEW</td>
<td>7/1/82-6/30/83</td>
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<td>B. Brylinski</td>
<td>Ciba-Geigy</td>
<td>7/31/82-8/31/83</td>
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TOTAL FUNDING RECEIVED* | 57,509

TOTAL AWARDS FROM MULTIYEAR COMMITMENTS* | 61,593

*Direct Costs Only

VI. PENDING EXTRAMURAL APPLICATIONS - none

VII. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Dr. B. Brylinski resigned from the full-time faculty in June, 1983 and Drs. E. Gfeller and C.R. Hicks in August, 1983. Dr. Roy Raper was appointed to the full-time faculty in July, 1983. The recruiting of full-time faculty in Psychiatry is difficult for many different reasons. A few important reasons are, one, that due to the small number of medical graduates entering psychiatry over the past several years the national pool of academic psychiatrists from which one can draw is very small and thus the "marketplace" is very competitive. For example, it is difficult for us to compete financially with our sister Department of Psychiatry at UAB. Whereas we recruit at the 50th percentile nationally, they recruit at the 80th percentile as a base salary with a 20% supplement. The 7th Floor, USAMC, is the only inpatient forum available to us and is unsuitable for the development of an active private patient care unit and thus offsets the possibility of developing different types of programs. The reasons for this are largely the physical aspect of the floor, as well as the patient population - particularly those patients hospitalized under court orders. The results of this are important. First, it means that the department is without a forum that offers either the possibility or potential to develop any significant income to redress the financial disadvantage in the recruiting and maintenance of faculty as well as the potential overall growth of the department in the sense of establishing additional faculty, programs, etc. Second, it prevents the possibility of attracting a broader spectrum of patient problems which mitigates against the recruiting of both faculty and residents. In the department's view, this issue is a major problem that will not allow the department to achieve its potential until it is resolved. Some financial relief was obtained this past year by the funding of some $51,044 on the department's grant for undergraduate psychiatry education.
Those measures used to assess the department's teaching of medical students continue to indicate that our students' performance is competitive nationally. The reduction of the clinical clerkship from eight to six weeks is highly regrettable and it remains to be seen whether there has been a negative effect educationally. We continue to recruit suitably qualified residents into our program and at the present time they number six. We still use the national Psychiatry Resident in Training Examination as an external measure of our program and the results are encouraging.

At the moment our faculty strength is down to four; three of whom are psychiatrists. We have reorganized and made these adaptations dictated by the circumstances. We are actively recruiting and maintain an air of cautious optimism that we shall be able to recruit suitably qualified academic psychiatrists and thus achieve the ultimate goals of the department.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


B. Articles in press


J.T. Littleton. Place of CT and Tomography in Otorhinolaryngology. XI International Congress of Radiology in Otolaryngology, Fontevraud, France (1982).


J.P. Williams, J.N. Joslyn and J.L. White. Simultaneous Rupture of Two Intracranial Aneurysms: CT Diagnosis. J. Computer Assisted Tomography


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED


IV. PRESENTATIONS


J.T. Littleton. Writer and Director of Audio-Video Tape to Demonstrate the Flexibility of the Traumex Emergency Radiology System. Produced by E&C Media, Chicago, IL (1982).


J.T. Littleton. Emergency Room Radiology. Ohio State University, Columbus, OH (1983).

J.T. Littleton. Pluridirectional Tomography in the Diagnosis and Management of Early Bronchogenic Carcinoma. University of Texas, Herman Hospital, Houston, TX (1983).


J.P. Williams. CT of Disc Disease. J.E. Holmes Regional Medical Center, Melbourne, FL (1983).


M.L. Lecklitner. Hepatobiliary Scintigraphy of Interest to Internists. Medical Grand Rounds, Dept. of Internal Medicine, University of Nuevo Leon, Monterrey, Mexico (1983).


V. EXTRAMURAL FUNDING

<table>
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<tr>
<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
<th>DATES OF AWARD</th>
<th>CURRENT YEAR FUNDING*</th>
<th>TOTAL AWARD</th>
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<td>D.E. Herbert</td>
<td>U.S. Nuclear Regulatory Commission</td>
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TOTAL FUNDING RECEIVED* 10,000

TOTAL AWARDS FROM MULTIYEAR COMMITMENTS* 10,000

VI. PENDING EXTRAMURAL APPLICATIONS

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<th>FACULTY MEMBERS</th>
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TOTAL FIRST YEAR REQUEST* 26,904

TOTAL PROJECT PERIOD REQUEST* 26,904

*Direct Cost Only

†Estimated Reimbursement at Expert Consultant's rate for time actually spent.
1982-1983
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF SURGERY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


B. Articles in press


C.B. Rodning. Death Comes to the Aid of Life. JAMA (1983)


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED - none

IV. PRESENTATIONS


D.J. Finn. Impotence. Southeast General Hospital, Dothan, AL, February 11 (1983).


A. Luterman. The Management of Patients With Burn Injuries. International Society for Burn Injuries and the World Health Organization, the Colorado Committee on Trauma, Denver, CO, December (1982).


M.L. Ramenofsky. EMS for Pediatrics: Optimum Treatment or Unnecessary Delay? American Academy of Pediatrics (Surgical Section), New York City, October (1982).


M.L. Ramenofsky. Pediatric Trauma and EMS. University of Rochester School of Medicine, Departments of Surgery and Pediatrics, Rochester, NY, December (1982).


M.L. Ramenofsky. Congenital Diaphragmatic Hernia. Louisiana State University School of Medicine, Children's Hospital, New Orleans, LA, March (1983).


### V. EXTRAMURAL FUNDING

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<th>FACULTY MEMBERS</th>
<th>AGENCY</th>
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EXTRAMURAL FUNDING (Cont'd)

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TOTAL FUNDING RECEIVED* 152,967
TOTAL AWARDS FROM MULTIYEAR COMMITMENTS* 437,565

VI. PENDING EXTRAMURAL APPLICATIONS

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<th>FACULTY MEMBERS</th>
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TOTAL FIRST YEAR REQUEST* 208,253
TOTAL PROJECT PERIOD REQUEST* 807,970

*Direct Cost Only

VII. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

The Department of Surgery was extremely pleased to add to our faculty four individuals who have fulfilled critical deficiencies in the specialty divisions at the University of South Alabama.

Dr. Mary Finn is an Assistant Professor of Surgery and Chief of the Division of Plastic Surgery and Co-Director of the Burn Unit.

Dr. Dan Finn is an Assistant Professor of Surgery and Chief of the Division of Urological Surgery.

Dr. Leonard Rich is an Assistant Professor of Surgery and Chief of the Division of Ophthalmology.

Dr. Thomas Spoor is an Associate Professor of Surgery in Ophthalmology and Neurosurgery.

It is now projected that an additional Pediatric Surgeon will join the faculty on January 1, 1984. In July, 1984 we expect to add two general surgeons, a full-time cardio-thoracic surgeon and an otolaryngologist. It is also anticipated that the Specialty Division, Vascular Surgery, Cardio-thoracic, Urology, and Plastic Surgery will also increase in size as the needs arise.
SUMMARY OF EXTRAMURAL SUPPORT

The National Institutes of Health has continued the policy of reducing continuation grant budgets by a minimum of 4% and to require higher priority scores for funding new applications. In spite of these constraints, the College of Medicine's extramural funding received during fiscal year 1983 increased by $866,687 to a total of $6,074,630. The approved future support increased to $17,815,208, indicating that we more than held our own in long-term support.

The graph below provides a historical summary of extramural funding over the past eleven years.

[Graph showing COLLEGE OF MEDICINE TOTAL ANNUAL EXTRAMURAL FUNDS FROM ALL SOURCES (IN MILLIONS) for the years 1973 to 1983.]
The quality of faculty initiated proposals has also improved remarkably. This is evidenced by the success rate of submitted applications. During fiscal year 1983, 164 applications were processed through the College of Medicine's Research Office and 94 awards were received, representing a success rate of 57%. A number of applications were processed as revisions and were therefore counted more than once within the total of 164. This tenacity on the part of the faculty has in reality pushed the success rate well above the 57% reported here.
SUMMARY OF TECHNOLOGY TRANSFER ACTIVITY

During fiscal year 1983 considerable activity was generated within the South Alabama Medical Sciences Foundation in the broad area of technology transfer. These activities are summarized below.


Faculty: Drs. Chang and Iida, Department of Biochemistry

Disposition: A process patent has been awarded in the U.S. and Japan. The patent rights have been sold to a Japanese drug firm, Meito Sangyo, for 3% of gross sales. The drug firm paid all patent costs.

Use: Chenodeoxycholic acid is a bile acid, a natural product, which has recently cleared the FDA. It is used to dissolve gallstones. It is estimated that the use of this drug could prevent 200,000 gall bladder operations per year in the U.S. alone.

Comments: Patent application was filed on the last possible date. Required 15 months for award. Patent was refused once on the basis of a conflict with a Czech patent. We demonstrated that the Czech procedure would not yield the appropriate product and won on appeal.

2. Project: The synthesis by a new and general procedure of a very large series of 6,6-disubstituted pteridines and their therapeutic application in a variety of diseases.

Faculty: Drs. Ayling and Bailey, Department of Pharmacology

Disposition: Patent pending. An effort is under way to license this patent. We are presently negotiating with G.D. Searle.

Use: Has potential for therapeutic uses in a number of neurological disorders involving deficits in the catecholamines and serotonin. The 6,6-disubstituted pteridines are substituted for the natural cofactor, tetrahydrobiopterin, in the hydroxylation reactions of tyrosine and tryptophan. The advantages of the 6,6-disubstituted pteridines over the natural cofactor is cost, availability, increased stability, and transport into the nervous system.

Comments: This is a long-term project requiring considerable additional research and all the testing required by the FDA for new drugs. We will attempt to develop collaborative research and consulting agreements as part of the licensing of this patent.
3. **Project:** Isolation, identification and production of monoclonal antibodies to Herpes simplex virus, Type I.

**Faculty:** Drs. Lausch and Oakes, and graduate student, Jim Rector, Department of Microbiology/Immunology.

**Disposition:** A patent application has been filed. A research agreement has been signed and Drs. Lausch and Oakes have entered into consulting agreements with Alcon Laboratories of Fort Worth, Texas. Alcon has agreed to pay all patent-related expenses.

**Use:** Alcon is the major drug company in the U.S. in the specialty area of ophthalmology. The goal of Alcon is to use these HSV-1 antibodies in the development of a diagnostic kit for Herpes infections of the eye, and possibly for therapeutic purposes.

**Comments:** The deadline on this application was avoided by about 24 hours.

4. **Project:** To develop, screen and produce monoclonal antibodies to certain fetal antigens.

**Faculty:** Drs. Coggin and Payne, Department of Microbiology/Immunology

**Disposition:** Warren O'Connor of the Wisconsin O'Connor Foundation, has entered into a research agreement with the South Alabama Medical Science Foundation to fund ($104,000) developmental work. He will pay full patent costs and has an exclusive license for five years.

**Use:** Mr. O'Connor plans on marketing a cancer detection kit.

**Comments:** An unusual entrepreneurial activity by an individual.

5. **Project:** The synthesis and sale of specifically labeled poly-γ-glutamyl derivatives of folid acid.

**Faculty:** Drs. Nair and Baugh and Ellie Braverman, Department of Biochemistry

**Disposition:** This synthesis was published in 1969 and is in the public domain. No question of patents. It is a complex and tedious procedure which is not easily reproduced, particularly in the clinical type laboratories that need these compounds.

Three contracts, one to the Bronx VA Hospital, one to the University of Florida, and one to the University of California at Davis, have been executed. These compounds will support three NIH grants at the above institutions; will involve about $26,000.
Use: These folate derivatives will be used to study digestion, absorption and transport of the natural folates and the turnover of folylpolyglutamates in vivo.
THE UNIVERSITY OF SOUTH ALABAMA

COLLEGE OF MEDICINE

MEDICAL STUDENT SUMMER RESEARCH PROGRAM

1983 ANNUAL REPORT

INTRODUCTION

During the summer months, University of South Alabama medical students, including incoming first-year students, have the unique opportunity to conduct research in a laboratory of their choice for a ten-week period. The College of Medicine sponsors this program. Research proposals are submitted by medical faculty members, these proposals are reviewed by the Student Research Committee and if approved, are compiled into a booklet and sent to interested students. The program thus offers a variety of projects in basic and clinical sciences. Medical students may apply for a Summer Research Fellowship and stipends are awarded to students in good academic standing whose applications have been approved by the research committee. The objectives of the Summer Research Program are to introduce students to medical research and involve medical students in a meaningful experience at the laboratory level.

1983 SUMMER RESEARCH PROGRAM

In the 1982 program, forty-two summer research proposals were submitted by faculty members. Five basic science departments and seven clinical science departments were represented. Twenty-four medical students participated in the research program. This group was composed of eleven first-year and thirteen second-year students. Eighteen of the students were supported by an NIH Training Grant and six of the students were supported by the College of Medicine. All participants submitted an abstract describing their research results by October 1, 1983 and presented their results, either orally or in a poster session, on Student Research Day, October 19, 1983. The abstracts for the summer research projects will be published in the Alabama Journal of Medical Science.

CONCLUSION

It appeared that the Tenth Annual Medical Student Research Day was successful in accomplishing the objectives of the Summer Research Program as judged from the scope and diversity of the scientific investigations and the quality of presentations. Students reported that summer research was an enjoyable educational experience.
TENTH ANNUAL
MEDICAL STUDENT
RESEARCH DAY

WEDNESDAY, OCTOBER 19, 1983

8:30 Introductory Remarks - Stanley E. Crawford, M.D.
Dean, College of Medicine

ORAL PRESENTATIONS
(Case Study Room)

Moderator: Dr. K. Lemone Yielding

8:45 William A. Womack (COM I) - Sponsored by D. Neil Granger, Ph.D.,
Department of Physiology. "Efficiency of Collateral Blood
Vessels in the Small Bowel."

9:00 Elizabeth F. Ruark (COM I) - Sponsored by Michael D. Harpen,
Ph.D. and John J. Hughes, M.D., Department of Radiology.
"Dynamic CT in Nephrotoxin Induced Acute Renal Failure."

9:15 William R. Kleinschrodt (COM I) - Sponsored by Robert N. Lausch,
Ph.D., Department of Microbiology. "The Role of Delayed Type
Hypersensitivity in Corneal Herpes Simplex Virus Type I Infections."

9:30 James C. Mixon (COM II) - Sponsored by Vaithilingam G. Dev,
Ph.D., Department of Medical Genetics. "Inhibition of Fragile
X Expression by 5-Azacytidine and by S-Adenosylhomocysteine."

9:45 Albert H. Scherff, III (COM I) - Sponsored by John M.
Shackleford, Ph.D., Department of Anatomy. "Influence of Topically
Applied DMSO on Extravasation of Several Fluorescent
Probes in the White Mouse Ear."

10:00 Charles H. Svensson (COM II) - Sponsored by Joe G. Hardin, M.D.,
Department of Medicine. "A Controlled Study of Cutaneous Schlero-
sis and Musculoskeletal Dysfunction in Type II Diabetes Mellitus."

10:15 Scott A. Gilchrist (COM II) - Sponsored by James C. Parker, Ph.D.,
Department of Physiology. "Extravascular Distribution Volumes of
Charged Macromolecules in the Lung."

10:30 BREAK
10:45 - 12:00
POSTER PRESENTATIONS
(Third Floor Hallway, Case Study Room)

Director: Dr. Jim W. Gaubatz

P1. Steven J. Miller (COM I) - Sponsored by Lerena W. Yielding, Ph.D., Department of Biochemistry. "Stability of Ethidium DNA Adducts."

P2. Leon H. Campbell, Jr. (COM II) - Sponsored by Ronald C. Allison, M.D., Departments of Physiology and Medicine. "Measurement of Lung Water After Elevation of Left Atrial Pressure."

P3. Clayton A. Buie (COM I) - Sponsored by George E. Bone, M.D., Department of Surgery. "The Comparative Accuracy of B-Mode Ultrasound Imaging and Contrast Arteriography in Assessment of Atherosclerosis."


P5. W. Emory Lawrence, Jr. (COM II) - Sponsored by Wladimir Wertelecki, M.D., Department of Medical Genetics. "Trends, Pointers and Cluster Events from a South Alabama Genetic Data Base."

P6. W.m Guy Patterson (COM II) - Sponsored by Peter R. Kvietyis, Ph.D., Department of Physiology. "Effects of Intraluminal Ethanol on Intestinal Capillary and Mucosal Permeability."

P7. Thomas E. Booth (COM I) - Sponsored by Eugene A. Quindlen, M.D., Department of Neurosurgery. "A Small DNA in Prostatic Tissue which Increases in Aging Cells."


P10. Ronald W. Perdue (COM II) - Sponsored by Jim W. Gaubatz, Ph.D., Department of Biochemistry. "Dual Label Studies of (³H) - Ethidium Monoazide Bound to (¹⁴C - pBR322."

12:00 LUNCH
ORAL PRESENTATION

Moderator: Dr. Michael Harpen

1:30 Edward P. Hill, IV (COM I) - Sponsored by Arvin E. Robinson, M.D. and Michael D. Harpen, Ph.D., Department of Radiology. "Radiation Dose Reduction in Pediatric CT."

1:45 L. Nichols Cook (COM II) - Sponsored by M.G. Nair, Ph.D., Department of Biochemistry. "Development of Inhibitors of Thymidylate Synthase for Cancer Chemotherapy."

2:00 John D. Jackson (COM II) - Sponsored by Richard D. Olson, Ph.D., Department of Pediatrics. "Prostaglandin Modulation of Oaubain Vasoactivity."


2:30 Cynthia A. Bixler (COM II) - Sponsored by Charles J. Hoff, Ph.D., Department of Medical Genetics. "Maternofetal Incompatibility and Pregnancy Outcome."

2:45 James C. Thigpen, Jr. (COM II) - Sponsored by Aubrey E. Taylor, Ph.D., Department of Physiology. "Stretch Pore Phenomenon in the Lung."

3:00 Steven L. Mackey (COM I) - Sponsored by Donald E. Herbert, Jr., Ph.D., Department of Radiology. "Battered Data: A Study of the Propagation of Error."

3:15 BREAK

3:45 GUEST SPEAKER: Dr. Eugene D. Jacobson
              Vice Dean for Academic Affairs
              College of Medicine
              University of Cincinnati

              "A Research Career for the M.D."

4:45 Presentation of Awards, Dr. Clyde G. Huggins, Associate Dean for Academic Affairs.

7:00 Informal Dinner for Student Participants, Sponsors, Guest Speaker, Spouses (or Dates), at the Executive Workshop, Brookley Center.
ABOUT THE SPEAKER

Dr. Eugene D. Jacobson is Vice Dean of Academic Affairs for the College of Medicine at the University of Cincinnati. He received his M.D. from the University of Vermont College of Medicine and his M.S. in Physiology at the State University of New York. Dr. Jacobson is a member of numerous professional societies including the American Physiological Society and the American Gastroenterological Association. He has or is currently on the editorial boards of 8 scientific journals. Dr. Jacobson has served as Chairman of the Department of Physiology at the University of Oklahoma Medical School at Houston (1971-1977) and as Associate Dean of Basic Science and Research at the College of Medicine of the University of Cincinnati (1977-1982). He has been deeply involved in the undergraduate and postgraduate medical curricula. He has won several awards for excellence in teaching and research and has been the major advisor for 29 graduate and postgraduate trainees. Dr. Jacobson's research has focused on the physiology and pathology of the splanchnic circulation and he has published extensively in this area.
REPORT FROM THE GRADUATE PROGRAM

The University of South Alabama College of Medicine initiated a program in June 1978 leading to a Ph.D. in Basic Medical Sciences. This five year program required that all students pass a core curriculum which included the six basic medical science courses taken by medical students. Following the completion of the core, the student spends three years in discipline oriented coursework and research leading to the Ph.D. in the Basic Medical Sciences with specialization in Anatomy, Biochemistry, Microbiology/Immunology, Pharmacology, or Physiology.

The graduate program in the basic medical sciences at South Alabama is designed to produce graduates with training and knowledge in basic human biology equivalent in scope to a physician's, but who in addition have in-depth knowledge and research skills in an area of specialization in one of the basic medical sciences equivalent to that of graduates of traditional Doctor of Philosophy programs.

The Ph.D. program in the Basic Medical Sciences has been divided into three phases: Phase I - Core Curriculum; Phase II - Graduate Curriculum; Phase III - Research and Dissertation for the Doctor of Philosophy degree.

The Basic Medical Sciences Faculty is responsible for conducting the teaching program for medical and graduate students in the Basic Medical Science years. At present, 46 full-time faculty provide the equivalent of 56 quarter hours of instruction during the first core year and 40 quarter hours during the second core year for graduate students (10 per class). The same faculty provides instruction to 64 medical students.

From 1401 inquiries, 274 completed applications have been received to date from students in the Continental United States and 88 from foreign countries. Alabama provided the largest number of completed applications with 70, followed by Louisiana (15), New York (18), and Arkansas (15). During the last six years, 164 applicants have been interviewed. The characteristics of these applicants are outlined below. The average age of the interviewed applicants has been 24 year, the GPA's 3.2, and the standardized test scores above the national averages. Of the 80 applicants who have matriculated, 54 were men, 25 women, and one from minority groups. From the interviewed applicant pool, 103 positions have been offered over the past six years. Eighty of the 103 offers were accepted and matriculated into the program.

An integral part of our program is a Summer Program for Undergraduate Research in Basic Medical Science. The summer program was developed to stimulate interest and encourage students to enter a career in the Basic Medical Sciences early in their undergraduate years. Outstanding young men and women identified during the second year of college can be afforded the opportunity to directly participate in an active investigators laboratory.
Forty-three students are currently enrolled in the Graduate Program. Nineteen students are in the core years. Of the 24 students who have completed the core, twelve have passed their oral and written qualifying exams and coursework requirements. Eight students have completed their research and are preparing their dissertations. Five students were awarded the Ph.D. degree in 1983 (The first Ph.D's awarded by this University).

A Ph.D.-M.D. program was initiated in 1982. These students follow an identical curriculum described above for the Ph.D. degree. They then complete the clinically related requirements for the M.D. degree in two years. Three carefully selected students are currently enrolled in this "Medical Scientist" Ph.D.-M.D. program.

Financial support for the Ph.D. programs is provided by the College of Medicine from both University money and extramural funds to the College and individual faculty members. The total budget for the program for 1983-1984 is $416,111. This includes educational, stipend, and administrative costs but does not include the cost of supporting student laboratory research. This cost is difficult to compute exactly but a conservative estimate would be $10,000/year/student for 24 students currently doing dissertation research (total: $240,000).
SUMMARY
OFFICE OF ACADEMIC AFFAIRS

The Office of Academic Affairs is charged with the responsibility for all phases of the life of the medical student, including recruitment, admissions, curriculum, nonacademic affairs, counseling (both professional and personal), financial aid, records, graduation and alumni affairs. To accomplish these tasks, six staff persons and two part-time assistant deans plus a fulltime associate dean were utilized in the 1982-1983 academic year.

The class of 1987 (entering in September 1983) was chosen from 653 applications. Four hundred and forty (440) were residents of Alabama, 102 of whom were females. Three hundred and twenty (320) were invited for a formal interview. The entering class of 65 students contains 50 males and 15 females, with one of the class on the combined Ph.D.-M.D. track. Sixteen (16) are residents of rural counties. Thirty-eight (38) minority (black) applications were received. Of these, 27 were residents of Alabama. Thirteen (13) were interviewed, 12 of whom were Alabama residents. Nine (9) received letters of acceptance and one matriculated, the latter being an out-of-state minority student. The overall GPA for the class which matriculated in August 1983 was 3.48, and the sum of the average MCAT scores was 54.66 (Biology - 9.45, Chemistry - 9.08, Physics - 9.15, Problem Solving - 9.06, Reading Skills - 9.06, Quantitative - 8.86). The class represents 25 colleges and universities and 21 Alabama counties. An organization of the health professions advisors in all of the Alabama colleges and universities, as well as out-of-state feeder schools is in place and meets once a year. In addition, visits to most of the colleges and universities in Alabama occur at least once a year. The facile management of the data base with regard to application to medical school is accomplished via interaction with the university computer center, with programs in place to manage the transition from applicant to medical student to medical alumnus.

Student Affairs is a time-consuming endeavor; however, with the cooperation from many faculty members, this load becomes much smaller. Financial aid programs, scholarships, various local and state loan programs as well as an emergency loan program are in place. The college continues to add to the principal in a number of its endowed scholarship programs with at least one or more additional scholarships becoming available each year. With rising costs and decreased availability of state and federal loans, additional mechanisms for financing the education of our students are being pursued.

The class of 1983 requested an average of 10 Dean's letters in the National Resident Matching Program. All students were placed in graduate training (residency) sites by this means or by an understanding outside the NRMP. Seventy-five (75) percent of our graduates selected primary care specialties.
The annual farcical comedy by the seniors for this year was "The House of Sid" which was presented in relatively good taste and was well received and interesting.

Emergency loans continue to be a resource to be used in a mature way by the students. The office processed 47 loans for a total of $16,415 and during this period of time, a total of $20,291 was repaid to the loan fund.

Honors Day-Graduation Convocation was a successful experience. Mr. Aubrey Green, a member of the Board of Trustees of the University of South Alabama, was the guest speaker and Dr. Robert A. Kreisberg, Professor and Chairman of the Department of Medicine, was chosen to "hood" the graduates. The yearbook, Review of Systems, Volume VIII, was completed on time and continues to be a quality publication.

Student organizations provide outlets for the students' individual expression as well as special interests. These are the Student Assembly, Student Family Practice Organization, AMA Student Business Council, Student National Medical Association, American Medical Student Association, Alpha Omega Alpha and an inactive social fraternity. Students continue to serve on important medical school committees and function as full members, carrying their responsibilities with maturity. These committees are Curriculum, Student Evaluation and Promotion, Admissions, Human Use, and the Faculty-Student Liaison.

The curriculum for the undergraduate medical student is of four years duration and conservative in basic philosophy. The basic format in the first three years is to assign the teaching via departmental responsibility, and on the other hand, the senior year is a selective one, composed of twelve four-week rotations. In the senior year, each student must select one rotation in a surgical subspecialty and one in a neuroscience. Three rotations may be selected in other medical centers and four rotations may be used for vacation, for interviewing schedules and for additional elective courses. Evaluation of the curriculum as well as student performance utilizes departmental examinations, subjective evaluations at the same level, National Boards Part I and Part II, and various types of graduation questionnaires administered at the national and intramural level. The classes continue to improve their performance on National Boards, usually scoring above the national average. All students must, upon entering medical school, become certified in Basic Cardiac Life Support, and they must be certified in Advanced Cardiac Life Support prior to graduation.

The Medical Alumni Association held its third annual meeting in Point Clear in mid-August 1983. The five-year reunion for the class of 1978 resulted in good attendance. The association functions as a separate unit under the broad guidelines of the University of South Alabama Alumni Association.
PUBLICATIONS


