

# 1997/98 Annual Report for



**College of Pharmacy**

**University of Florida**

**Office of Research and Graduate Studies FY 97/98 Staff:**

**William J. Millard, Ph.D**

Acting Associate Dean for Research and Graduate Studies  
Associate Professor, Department of Pharmacodynamics

**Marlene K. Hughes**

Program Assistant

**Erica Yahyavi**

Student Assistant

## Table of Contents

SECTION	PAGE
<b>Introduction</b> .....	1
<b>Graduate Education and Program Activities for FY 97/98.</b> .....	3
Graduate Programs in the College (overview).....	3
Graduate Studies Committee (GSC) Activities for FY 97/98.....	3
College of Pharmacy Graduate Student Organization. ....	4
Graduate Student, Post-doctoral Fellow and Visiting Scholar Demographics FY 97/98. ....	4-7
Graduate Student Recruitment Activities FY 97/98. ....	7-9
Graduate Students Graduation Activities FY 97/98. ....	9-12
Graduate Student Funding and Awards for FY 97/98. ....	12-15
Graduate Minority Activities FY 97/98.....	15
<b>Research Activities in the College of Pharmacy for FY 97/98.</b> .....	16
Grant and Contract Efforts and Funding.....	16-21
Undergraduate Student Research Activities. ....	21-22
<b>US-THAI Consortium Activities FY 97/98.</b> .....	23
Summary of 1996/97 US-THAI Consortium Meeting in Baltimore. ....	23-25
Thai Students in the College of Pharmacy.....	25-26
UF Faculty Visiting Thailand in 1996/97. ....	26
Thai Faculty Visiting UF College of Pharmacy in 1996/97. ....	26
<b>ORGS Coordinated Events for the COP - FY 97/98.</b> .....	27
Post-baccalaureate Reception. ....	27
Annual Research Showcase and Awards Recognition Day.....	27-29
<b>Other ORGS Activities for FY 97/98.</b> .....	30
Committee Assignments. ....	30-31
Conferences Attended Related to ORGS Activity. ....	31
Other Activities Coordinated. ....	31
<b>Appendices</b> .....	32
A= Complete Listing of Extramural Support by Department and Faculty for FY 97/98. ....	1-4
B= Letter to Graduate Applicants. ....	1
C= 11 <sup>th</sup> Annual Research Showcase and Awards Recognition Day Booklet. ....	1-8

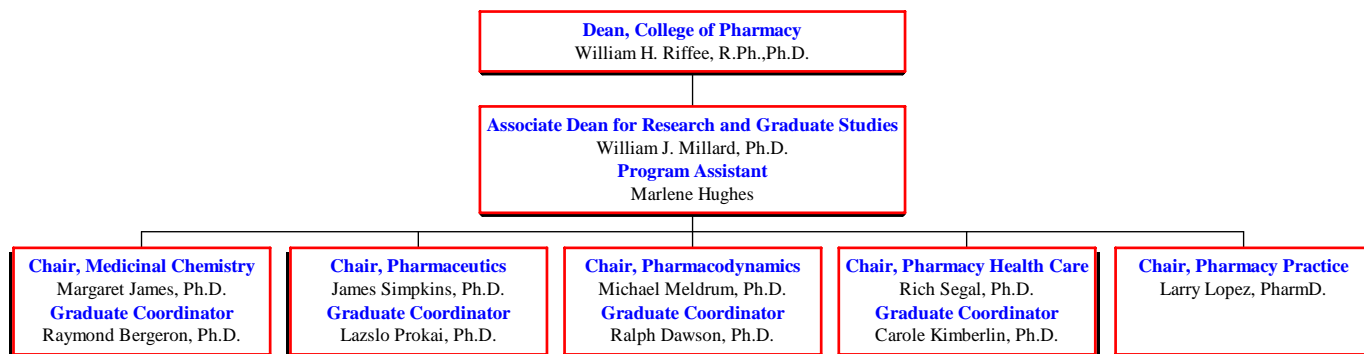
## Introduction

The Office for Research and Graduate Studies (ORGS) was established in the College of Pharmacy (COP) in 1989 as the major unit within the college responsible for the oversight of all aspects of the graduate programs (MS and Ph.D.) as well as research activities within the COP. Within the purview of these two major activities are a number of functions that are coordinated by ORGS personnel and make up the daily operations of the office.

The structure of the ORGS is outlined in **Figure 1**. Dr. William J. Millard, Professor in Pharmacodynamics is the Associate Dean for Research and Graduate Studies. Dr. Millard accepted this role on an acting basis in January, 1995 and then on a permanent basis in August 1997. Dr. Millard reports the ORGS activities directly to the Dean of the College. The Associate Dean for Research and Graduate Studies is responsible for the monitoring of all graduate student applications, quality of graduate students and the progression of students through the graduate programs in the college. The Associate Dean for Research and Graduate Studies role also includes the monitoring of the quality of the graduate programs and to seek ways to expand or improve graduate education within the COP. The Associate Dean also acts as the major liaison between both the Graduate School and the Office of Research, Technology and Graduate Education (ORTGE) at the University of Florida and the COP faculty and graduate students.

Most of the information concerning graduate programs and education within the COP is communicated from the Associate Dean to faculty or graduate students through the Departmental Chairs and Graduate Coordinators. To assist the Associate dean in the responsibility of governing graduate education in the COP is the Graduate Studies Committee and COP Graduate Student Organization (see below: **Graduate Education and Program Activities for FY 97/98**; **Graduate Studies Committee (GSC) Activities**; **College of Pharmacy Graduate Student Organization**).

**FIGURE 1: Administrative Flow Chart for the ORGS**



Related to research activities, the Associate Dean for Research and Graduate Studies has the major responsibility to see that faculty remain active in their individual research programs and to assist them in the grant or contract submission process. It is the Associate Dean's responsibility that all grants are submitted and logged through UF in the proper manner. This includes that proper contractual arrangements and documentation are completed and that each contract or grant contains the proper faculty percent effort and salary offset dollars as well as correct indirect cost and graduate student support. The Associate Dean also sees that information relevant to research or a given research topic is communicated to the proper faculty or personnel within the COP.

The Associate Dean also acts as the college's principal liaison for the US-THAI Consortium. This initiative is a major international training agreement between all of the colleges of pharmacy in the country of Thailand and selected pharmacy schools in the United States (see: **US-THAI Consortium Activities FY 97/98**).

The Associate Dean for Research and Graduate Studies is assisted by a Program Assistant in the ORGS (see **Figure 1**). During FY 97/98 the ORGS Program Assistant was Ms. Marlene Hughes. Marlene assumed the ORGS Program Assistant's role in July, 1997. Ms. Hughes was assisted by Erica Yahyavi a student in the College of Business Administration. The Program Assistant's role is to handle the daily operations of the ORGS. This would include the submission of needed reports to the COP, University and outside agencies. Communication of informational items to the faculty and graduate students related to issues of graduate education and research is also a responsibility of the ORGS staff. The Program Assistant deals individually with graduate students assisting with various problems and graduate course registration. A major responsibility of the Program Assistant is to plan organize the various functions of the ORGS. The tracking and filing of new and ongoing research grants is also another major responsibility of the Program Assistant.

In assessing Marlene's performance this year, Marlene handled the interactions with graduate students and university personnel in the ORGS in a professional manner. Her organization and planning of the two major COP functions coordinated by the ORGS was expertly done. Marlene has also maintained and reorganized the files within the ORGS. As this is an ongoing process we are still trying to develop a filing system that can most efficiently handle the operations of the ORGS. Marlene spent the vast majority of her time dealing with graduate education issues in FY97/98. In FY 1998/99 she will begin to learn to log and track research grants and other aspects of the research component of the ORGS.

The remainder of this report will deal with COP Graduate Programs, COP Research Activity, US-THAI Consortium Activities, ORGS-Coordinated Functions and Other Activities of the ORGS for FY 97/98.

## Graduate Education and Program Activities for FY 97/98

### Graduate Programs in the COP (overview):

There is one Ph.D. program administered through the College of Pharmacy: the **Ph.D. in Pharmaceutical Sciences**. Under the umbrella of the Ph.D. in Pharmaceutical Sciences (established in 1932) there are four **graduate specialty programs** that are recognized in the College of Pharmacy by the Graduate School. These graduate specialties are: Medicinal Chemistry (recognized in 1978), Pharmacodynamics (recognized in 1989), Pharmacy Health Care (recognized in 1996), and Pharmacy (currently Pharmaceutics).

Tied to each of the Ph.D. programs in the college is an associated Master of Science (M.S.) in Pharmacy Program. The M.S. in Pharmacy in all Departments in the COP requires that each student prepares and defends a thesis as part of their M.S. degree. Pharmacy Health Care also has the option of a non-thesis M.S. degree. In general, students are discouraged from entering directly into a M.S. in Pharmacy Program in the College. Instead, students are strongly encouraged to enter into one of the Ph.D. programs. However, students may opt for the M.S. degree in their discipline if they find that the Ph.D. degree was not what they desire.

During FY 91/92 all Graduate Studies/Programs were **decentralized** in the College from the ORGS and into each of the individual departments. With this decentralization the review or setting of graduate policies and graduate student recruitment is now in the hands of the separate departments.

Today both the graduate programs and graduate student recruitment and oversight remain decentralized with the ORGS acting as the coordinating unit for Graduate Studies in the College. To assist the ORGS in the management of Graduate Activities in the College, the Graduate Studies Committee (GSC) was established.

### Graduate Studies Committee (GSC) Activities:

The express goal for the GSC is to be a medium in which graduate and research programmatic goals are reviewed on a continual basis and aligned with the goals of the College and the University (*i.e.* continuous quality improvement, CQI). The primary charge of the GSC committee is to review and make recommendations of graduate programs in the College of Pharmacy. This would include both new and existing graduate programs. The GSC is also involved in considering how the College can attract/fund more graduate students with an emphasis on bringing in more US and undergraduate pharmacy students into the graduate program. This committee is also involved in reviewing any future major mandate(s) from the Graduate School that may impact on the functioning of the overall graduate program within the College. (*i.e.* stipends; tuition waivers). The committee continues to select finalists in the College's Spring Research Competition and also makes recommendations on how to improve this College function.

The makeup of the GSC includes the **graduate coordinator representatives** from each of the four degree granting departments and the **president of the COP graduate student** organization. The Associate Dean for Research and Graduate Studies serves as the non-voting chair of the committee. The Dean, as with other COP committees, is an *ex-officio* member of the committee. The Program Assistant sits in on all committee meetings as recording secretary. Representatives on the GSC for FY 97/98 were:

<b>Non-voting Chair:</b>	Dr. William J. Millard	Office of Research and Graduate Studies
<b>Voting members:</b>	Dr. Raymond Bergeron Dr. Ralph Dawson Dr. Carole Kimberlin Dr. Laszlo Prokai Ms. Rachel Cornet	Medicinal Chemistry Pharmacodynamics Pharmacy Health Care Pharmaceutics President of COP graduate students
<b>Ex-Officio Member:</b>	Dr. William H. Riffiee	Dean

The GSC met eight times throughout FY97/98. Issues that were deliberated by the GSC in FY 97/98 were:

- review of the initial proposal of the Department of Pharmaceutics to establish their own graduate specialty.
- review and approval of guidelines for Grinter Scholarship. The GSC also agreed to raise the annual stipend of Grinter Awardees to \$3,000/year for a three year period of time.
- use of State Line OPS monies for Graduate Student stipends.
- ORGS Applicant letter for graduate student recruitment.
- establishment of goals and objectives for each graduate program within the college.
- selection of finalists for the 10th Annual Research Showcase and Awards Recognition Day.

### **College of Pharmacy Graduate Student Organization:**

The COP Graduate Student Organization (GSO) is an avenue by which graduate students can discuss common issues related to graduate education and bring their concerns to the attention of the Associate Dean for Research and Graduate Studies. The COP GSO elects a president and secretary on an annual basis. The president of the organization coordinates and runs the meetings (3-4 per year) and also sits on the Graduate Studies Committee as a voice of the graduate students. For FY 97/98 **Ms. Rachel Cornett** (Medicinal Chemistry) served as president of the organization, while **Mr. Matthew Dellavecchia** (Medicinal Chemistry) was the secretary.

At the beginning of the Fall and Spring terms of an academic year, the ORGS sponsors a pizza party for COP graduate students to have them come together as a forum of exchange of information between each other and the ORGS.

### **Graduate Student, Postdoctoral Fellow and Visiting Scholar Demographics:**

A listing of all graduate students according to their department with their date of entrance into the graduate program, degree sought and mentor is found in **Table 1**. Seventy graduate students were engaged in studies leading to the Ph.D. (69) or M.S. (1) degree. During FY 97/98 the COP graduated 12 students (11 Ph.D. and 1 M.S. students, see below: **Graduate Student Graduation Activities**) which is the largest graduating class in the history of the college. The COP accepted 12 new students into one of the COP Graduate Programs (see below: **Graduate Student Recruitment Activities**).

**Table 2** outlines the overall demographics of the graduate student population within the COP for FY 97/98. Overall, there was an approximate 60:40 ratio of males to females. The number of US/Foreign students were 39/31 or a 56%/44% ratio. The US/Foreign ratio is up from the previous years, indicating that we are attracting more US students into our graduate programs.

US minority students comprised 5.7% of the COP graduate student population; that is up from the previous year of 3.4%. Distribution of graduate students among the four degree-granting departments is illustrated in **Table 3**. With the exception of Pharmacodynamics the student population was distributed relatively evenly over the remaining three departments (18-20 students/unit).

GPA and graduate program entrance test scores for the COP students are shown in **Table 4**. For the sake of completeness, a listing of Postdoctoral Fellows and Visiting Scholars in the COP is illustrated in **Table 5** with their distribution among the departments outlined in **Table 3**. With the exception of Pharmacy Health Care, the distribution of postdoctoral fellows was distributed evenly among the remaining four departments for FY 97/98.

**Table 1: FY 97/98 Graduate Students in the COP**

Department/Center	Name	Date Entered	Exp. Grad. Date	Degree Sought	Mentor
<b>Medicinal Chemistry</b>	Michael Branham	Jun-95	Jun-99	Ph.D.	Tebbett
	Rachel Cornet	Aug-95	Aug-99	Ph.D.	James
	Richard Davies	Aug-87	Dec-98	Ph.D.	Rao
	Matthew Dellavecchia	Jan-97	May-01	Ph.D.	Bergeron
	Qiao-Qing Di	Aug-93	Dec-98	Ph.D.	Schulman
	James Johnson	Aug-93	May 98	Ph.D.	Rao
	John Juchum	Jan-94	May-99	Ph.D.	Rao
	Zhen Lou*	Aug-97	Aug-01	Ph.D.	Bergeron
	Jeffrey Nowacki**	Aug-95	Dec-97	M.S.	Bergeron
	Ravi Orugunty	Aug-92	Aug 98	Ph.D.	Rao
	Sarah Poulos*	Aug-97	Aug-01	Ph.D.	Bergeron
	William Roberts	Aug-96	Aug-00	Ph.D.	Sloan
	Ningya Shi	Jan-95	May-99	Ph.D.	Wielbo
	Jingshun Sun	Jan-95	May-99	Ph.D.	Perrin
	Helen Taylor**	Jan-93	May-98	Ph.D.	Sloan
	Shawn Toffolo	Jan-96	May-00	Ph.D.	Tebbett
	Lucas Utley	Aug-96	Aug-00	Ph.D.	Tebbett
	Mei Guo Xin	Jan-95	May-99	Ph.D.	Bergeron
<b>Pharmaceutics/ Center for Drug Discovery</b>	Suliman Al-Fayoumi	Aug-94	Aug-98	Ph.D	Hochhaus
	Annamaria Buchwald	Aug-96	Aug-00	Ph.D	Bodor
	Peter Buchwald	Aug-92	Dec-97	Ph.D	Bodor
	Pattavadee Chancham*	Aug-97	Aug-01	MS	Hochhaus
	Amparo de la Pena	Aug-96	Aug-00	Ph.D	Derendorf
	Hristina Dimova*	Aug-97	Aug-01	MS	Hochhaus
	Fenglei Huang	Jan-95	May-99	Ph.D	Bodor
	Ho-Seung Kim	Aug-93	May-98	Ph.D	Prokai
	Sriram Krishnaswami	Jan-97	Jan-01	Ph.D.	Hochhaus
	Earvin Liang	Aug-94	Aug-98	Ph.D	Hughes
	Timothy H. Lim**	Aug-90	Aug-97	Ph.D	Bodor
	Charles Randall Mills*	Aug-97	Aug-01	Ph.D	Hochhaus
	Jintana Napaporn*	Aug-97	Aug-01	MS	Hochhaus
	Scott Poxon	Aug-94	Aug-98	Ph.D	Hughes
	Sandra Suarez**	Aug-93	Aug-97	Ph.D.	Hochhaus
	Jeffrey Stark	May-94	May-98	Ph.D	Prokai
	James Talton	Aug-95	Aug-99	Ph.D	Hochhaus
	Fuxing Tang	Jan-97	Jan-01	Ph.D.	Hochhaus
Qun Wei	Aug-94	Aug-98	Ph.D	Bodor	

\* new students entering a COP graduate program during FY 97/98

\*\* students who graduated with a MS or Ph.D. during FY 97/98



**Table 1 (con't): FY 97/98 Graduate Students in the COP**

<b>Department/Center</b>	<b>Name</b>	<b>Date Entered</b>	<b>Exp. Grad. Date</b>	<b>Degree Sought</b>	<b>Mentor</b>
<b>Pharmacodynamics/Cntr Neurobiology of Aging</b>	Tranecia Clarke*	Jun-97	Aug-01	Ph.D	Dawson
	Barbel Eppler-Mossler	Aug-92	May-98	Ph.D	Dawson
	Pattie Green	Aug-95	Aug-99	Ph.D	Simpkins
	Kelly Gridley	Aug-93	Dec-98	Ph.D	Simpkins
	Brett Houk	Aug-96	Aug-00	Ph.D	Dawson
	Ming Hu	Aug-95	Aug-99	Ph.D	Peris
	Bruce Jung	Aug-94	Aug-98	Ph.D	Peris
	Robin Martin	Aug-95	Aug-99	Ph.D	Millard
	Alok Pachori	Aug-96	Aug-00	Ph.D	Dawson
	Lynn Ramos*	Aug-97	Aug-01	Ph.D	Dawson
	Darren Roesch	Aug-93	May-98	Ph.D	Keller-Wood
	Jiong Shi**	Jan-94	Aug-97	Ph.D	Simpkins
Jian Wang*	Aug-97	Aug-01	Ph.D.	Dawson	
<b>Pharmacy Health Care/ Dubow Center for Pharmaceutical Care</b>	Michelle Assa**	Aug-92	Aug-97	Ph.D	Kimberlin
	Ratanaporn Awiphan	Aug-95	Aug-99	Ph.D	Lipowski
	Yajaira Bastardo	Aug-96	Aug-00	Ph.D	Hepler
	Christine Bono	Aug-94	Aug-98	Ph.D	Kimberlin
	Barbara Brice	Aug-94	Aug-98	Ph.D	Lipowski
	Richard Faris	Aug-96	Aug-00	Ph.D	Segal
	Michael Foukas*	Aug-97	Aug-01	Ph.D.	Kimberlin
	William Garst	Jan-95	May-99	Ph.D	Ried
	David Gettman**	Aug-91	Dec-97	Ph.D	Ried
	Daniel Halberg**	Jan-92	Dec-97	Ph.D	Hepler
	Susan Kernodle	Aug-94	Aug-98	Ph.D	Segal
	Neil MacKinnon	Aug-95	Aug-99	Ph.D	Hepler
	Sam Moolasarn	Jan-96	Apr-98	Ph.D	Ried
	Matt Morrow	Aug-85	Aug-01	Ph.D.	Hepler
	David Nau**	Aug-93	Aug-97	Ph.D	Ried/Lipowski
	Rajesh Nayak	Aug-92	Aug-98	Ph.D	Kimberlin/Brushwood
	Lourdes Thornhill	Aug-95	Aug-99	Ph.D	Kimberlin
	Feng Wang	Aug-96	Aug-99	Ph.D	Kimberlin
	Avin Yaldo*	Aug-97	Aug-01	Ph.D.	Kimberlin
	Henry Young*	Aug-97	Aug-01	Ph.D	Kimberlin

\* new students entering a COP graduate program during FY 97/98

\*\* students who graduated with a MS or Ph.D. during FY 97/98

**TABLE 2: Graduate Student Demographics - FY 97/98**

	GENDER		CITIZENSHIP				MINORITY					
			United States		Foreign		Black		Hispanic		Asian	
	#	%	#	%	#	%		%		%		%
<b>TOTAL</b>	70		39	55.7%	31	44.3%	3	4.3%	0	0.0%	1	1.4%
Male	42	60.0%	26	66.7%	16	51.6%	2		0		1	
Female	28	40.0%	13	33.3%	15	48.4%	1		0		0	

**TABLE 3: Graduate Students, Postdoctoral Fellows and Visiting Scholars - FY 97/98**

Department/Center	Graduate Students	Postdoctoral Fellows	Visiting Scholars
Medicinal Chemistry	18	7	0
Pharmaceutics/CDD	19	7	2
Pharmacodynamics/CNA	13	5	0
Pharmacy Health Care/DFCPC	20	1	0
Pharmacy Practice	No Grad. Prog.	7	0
<b>COLLEGE TOTAL</b>	<b>70</b>	<b>27</b>	<b>2</b>

CDD = Center for Drug Discovery, CNA = Center for the Neurobiology of Aging, DFCPC = Family Center for Research in Pharmaceutical Care.

**TABLE 4: GPA and Test scores of Graduate Students in the COP**

CLASS	GPA	GRE			TOEFL	TSE
		Verbal	Quant	Total		
<b>COLLEGE TOTAL (70)</b>	3.32	514	675	1189	596	47
<b>97/98 Class (12)</b>	3.21	440	662	1102	583	40

numbers in parenthesis denote student population

### Graduate Student Recruitment Activities:

Recruitment of graduate students was decentralized in 1991 and placed in the hands of the individual departments. As such, departments are now responsible for their own recruitment brochures and strategies for graduate student recruitment. This year 929 applications were sent out to prospective students by the college departments (**Table 6**). This is an increase of over 200 from the previous year clearly noting that the college is actively trying to recruit students into their graduate programs.

Whenever possible, requests for application materials that come through the ORGS are now sent to the departments. However, when applicants do not specify a graduate specialty in their letter of inquiry the ORGS handles these requests. To streamline the process, a letter (**see Appendix B**) describing the individual graduate programs/specialties and identifying the graduate coordinators of each graduate specialty is sent to each applicant.

In this letter applicants are encouraged to access information from the COP home page on the World Wide Web (WWW). Records of how many letters of this type were sent out from the ORGS were kept for FY 97/98. The ORGS sent out 264 letters over the entire year. This is up from last year's estimate of 150 –200 letters.

Graduate student application activity for FY 97/98 from each of the Departments is illustrated in **Table 6**. Of the 175 completed applications received by the departments only 12 or 7% of the applicants were accepted. Noteworthy is the fact that 100% of the students accepted by the various departments entered a COP graduate program in FY97/98.

**Table 5: FY 9798 Postdoctoral Fellows and Visiting Scholars**

<b>Department/Center</b>	<b>Name</b>	<b>Title</b>	<b>Preceptor</b>
<b>Medicinal Chemistry</b>	James McManis	PD	Bergeron
	Jorge Bussenius	PD	Bergeron
	Ralf Mueller	PD	Bergeron
	William Weimer	PD	Bergeron
	Jeng-kuen Huang	PD	Bergeron
	Bernard Gadagbui	PD	James
	Chung-Li (Jason) Li	PD	James
<b>Pharmaceutics/ Center for Drug Discovery</b>	Attila Jahaz	PD	Bodor
	Vika Chandra Dhawan	PD	Bodor
	Fu-Bao Ji	VS	Bodor
	Jiaxiang Wu	PD	Bodor
	Chu-kuok Wong	VS	Bodor
	Katalin Prokai	PD	Bodor
	Alevtina Zharikova	PD	Prokai
	Berd Meibohm	PD	Derendorf
	Preeti Ajamni	PD	Hughes
<b>Pharmacodynamics/Center for Neurobiology of Aging</b>	Gopal Rajakumar	PD	Simpkins
	Kiran Panickar	PD	Simpkins
	Guang Wei Guan	PD	Simpkins
	Leighann Stublely	PD	Simpkins
	Jiong Shi	PD	Simpkins
<b>Pharmacy Health Care/Dubow Center for Pharmaceutical Care</b>	Hanaa Salem	PD	Hepler
<b>Pharmacy Practice</b>	Billie Nguyen	PD	Gums
	Jerry Smith	PD	Gums
	Jim Lewis	PD	Gums
	Sandra Baumstein	PD	Hendeles
	Virginia Holmes	PD	Lopez
	Jeffrey Hui	PD	Yee
	Jim Taylor	PD	Wilt

**Table 6: Departmental Graduate Student Recruitment Activity - FY 97/98**

Department	# requests sent out	# applications processed	# applications accepted	% accepted	# entered	% entered
Medicinal Chemistry	241	97	2	2%	2	100%
Pharmaceutics	252	42	4	10%	4	100%
Pharmacodynamics	138	17	3	18%	3	100%
Pharmacy Health Care	298	19	3	16%	3	100%
<b>COLLEGE TOTAL</b>	929	175	12	7%	12	100%

### Graduate Student Graduation Activities FY 97/98:

Over the 97/98 academic year the COP had **twelve** students graduate with either the Ph.D (11) or M.S. (1) degree. Each of the departmental graduate specialties was represented in the 97/98 graduating class. The graduates according to degree for FY 97/98 were:

#### Ph.D. in Pharmaceutical Science degrees conferred for FY 97/98.

##### August 1997 (Summer Commencement):

- Name:** **Dr. Michelle T. Assa**  
**Dissertation Title:** *An Interpersonal Perception Approach to Understanding Communication Between Pharmacists and Patients.*  
**Faculty Mentor:** Dr. Carole Kimberlin, Professor  
**Department:** Pharmacy Health Care  
**Previous Degrees:** B.S. in Pharmacy, University of Colorado.

Dr. Assa has assumed an Assistant Professor position in the Pharmacy Administration Department at NOVA Southeastern, College of Pharmacy.

- Name:** **Dr. David Nau**  
**Dissertation Title:** *A Perceived Value Framework for Explaining Patients Intentions to Use Pharmaceutical Care Services.*  
**Faculty Mentor:** Dr. L. Douglas Ried, Associate Professor  
**Department:** Pharmacy Health Care  
**Previous Degrees:** B.S. in Pharmacy from Ohio Northern University. M.S. in Pharmaceutical Sciences, University of Toledo.

Since his graduation Dr. Nau has assumed an Assistant Professor position in the Pharmacy Administration Department at the University of West Virginia, College of Pharmacy.

3. **Name:** **Dr. Jiong Shi**  
**Dissertation Title:** *Estrogen Modulation of Glucose Transporter-1 Expression in the Blood Brain barrier and Its Importance in Focal Ischemic Animal Models.*  
**Faculty Mentor:** Dr. James Simpkins, Professor.  
**Department:** Pharmacodynamics  
**Previous Degrees:** B.M. from Shanghai Medical University, Shanghai, China.

Dr. Shi has stayed on in a postdoctoral position working in the laboratory of Dr. James Simpkins, Department of Pharmacodynamics, College of Pharmacy, University of Florida.

4. **Name:** **Dr. Sandra Suarez**  
**Dissertation Title:** *Biopharmaceuticals Aspects Relevant to Pulmonary Targeting of Inhaled Glucocorticoids: Application to Liposomes and Dry Powders.*  
**Faculty Mentor:** Dr. Guenther Hochhaus, Associate Professor.  
**Department:** Pharmaceutics  
**Previous Degrees:** B.S. in Pharmacy at Escuela Nacional Ciencias, Plan de Ayala, Mexico.

Dr. Suarez has assumed a postdoctoral position at the University of North Carolina, College of Pharmacy. Dr. Suarez is working in the Department of Pharmaceutics under the mentorship of Dr. Tony Hickey.

5. **Name:** **Dr. Timothy Lim**  
**Dissertation Title:** *Design, Synthesis, and Evaluation of Cortienic Acid Derivatives and their Analogues as Lipophilic Carriers in Controlled Release of Antiviral Agents of Topical Application.*  
**Faculty Mentor:** Dr. Nicholas Bodor, Graduate Research Professor.  
**Department:** Pharmaceutics/Center for Drug Discovery  
**Previous Degrees:** B.S. in Chemistry, University of Florida.

Dr. Lim has assumed a postdoctoral position in the Department of Oncology at Montifiore Medical Center, NY. Dr. Lim is working under the direction of Dr. Robert S. Klein.

### **December 1997 (Fall Commencement):**

6. **Name:** **Dr. David Gettman**  
**Dissertation Title:** *An Exploratory Investigation of a Proposed Stress Model of Medication Adherence (SMMA) Among Elderly Outpatients.*  
**Faculty Mentor:** Dr. L. Douglas Ried, Associate Professor  
**Department:** Pharmacy Health Care  
**Previous Degrees:** B.S. in Pharmacy University of Montana, MBA from William and Mary College

Dr. Gettman has assumed an Assistant Professor Position in the Pharmacy Administration Department at the University of New Mexico, College of Pharmacy.

7. **Name:** **Dr. Helen E. Taylor**  
**Dissertation Title:** *Bioreversible Derivatives of 5-Fluorouracil: The Synthesis and Evaluation of a Series of 1-Alkylcarbonyloxymethyl-5-Fluorouracil Derivatives.*  
**Faculty Mentor:** Dr. Kenneth Sloan, Professor  
**Department:** Medicinal Chemistry  
**Previous Degrees:** B.S. in Chemical Engineering, Florida Institute of Technology; M.S. in Chemical Engineering, University of Florida.

Dr. Taylor has assumed a Research Scientist/Chemist Position at Whitehall Robbins Co. in Richmond, VA.

8. **Name:** **Dr. Peter S. Buchwald**  
**Dissertation Title:** *Molecular Size Based Model to Estimate Pharmaceutically Relevant Physiocochemical Properties.*  
**Faculty Mentor:** Dr. Nicholas Bodor, Graduate Research Professor  
**Department:** Pharmaceutics/Center for Drug Discovery  
**Previous Degrees:** B.S. in Physics, Babes-Bolai University (Romania)

Dr. Buchwald has assumed a postdoctoral position in the laboratory of Dr. Nicholas Bodor, Center for Drug Discovery, College of Pharmacy, University of Florida.

9. **Name:** **Dr. Ho-Seung Kim**  
**Dissertation Title:** *In Vitro and In Vivo Stability and Metabolism of Neuropeptides and Their Brain-targeted Precursors: Method Development and Applications.*  
**Faculty Mentor:** Dr. Laszlo Prokai, Associate Professor  
**Department:** Pharmaceutics/Center for Drug Discovery  
**Previous Degrees:** B.S. in Biochemistry, Yon Sie University; M.S. in Biochemistry, Fairleigh Dickinson University; M.S. University of New South Wales (Australia)

Dr. Kim has assumed a postdoctoral research position in the Department of Pharmaceutical Sciences at the University of North Carolina at Chapel Hill.

### **May 1998 (Spring Commencement):**

10. **Name:** **Dr. Dan Halberg**  
**Dissertation Title:** *Optimizing Service Capacity in a Drug Information Service.*  
**Faculty Mentor:** Dr. C. Douglas Hepler, Professor  
**Department:** Pharmacy Health Care  
**Previous Degrees:** B.S. in Business Administration, from University of Florida

Dr. Halberg has assumed an Assistant Professor Position in the Pharmacy Administration Department at the University of Arkansas, College of Pharmacy

11. **Name:** **Dr. Darren Roesch**  
**Dissertation Title:** *Novel Rapid Nongenomic and Slow Genomic Mechanisms of Ovarian Steroid Modulation of the Hypothalamic-Pituitary-Adrenal Axis and the Cardiovascular System During Ovine Pregnancy.*  
**Faculty Mentor:** Dr. Maureen Keller-Wood, Associate Professor  
**Department:** Pharmacodynamics  
**Previous Degrees:** B.S. in Microbiology and Cell Science from University of Florida

Dr. Roesch has assumed a postdoctoral research position in the Department of Internal Medicine at Georgetown University College of Medicine working under the direction of Dr. Joseph Verbalis.

## M.S. in Pharmacy Degrees conferred for FY 97/98.

### May 1998 (Spring Commencement):

1. **Name:** Mr. Jeffery Nowacki  
**Thesis Title:** Investigation on the Transport Properties of Peptide Based Polyamine Analogs.  
**Faculty Mentor:** Dr. Raymond Bergeron, Graduate Research Professor  
**Department:** Medicinal Chemistry  
**Previous Degrees:** B.S. in Biology, University of Tennessee at Chattanooga

Mr. Nowacki is in the process of looking for a position in Pharmaceutical Industry.

### Graduate Student Funding and Awards:

The COP shared the major brunt of the funding of graduate student stipends for FY 97/98. Thirty two graduate student stipends (8 to each of the four graduate degree granting departments) were supported by COP OPS monies. The remainder of graduate student support came from extramural research grant support or graduate student fellowships/awards. In a few instances (3) students were self funded. Three graduate students received funding from their home governments (Thailand (2) and Saudi Arabia). Graduate stipends including stipend supplements ranged from \$10,294 to \$14,871 with an average overall stipend of \$11,987 for all graduate students.

Fifteen graduate student fellowship proposals for a total of \$236,705 were submitted by faculty to extramural sources. Agencies in which proposals were submitted were the American Foundation for Pharmaceutical Education (AFPE), NIH, PhRMA, and American Heart Association – Florida Affiliate.

Four predoctoral fellowship proposals were funded this year. **Mr. Richard Faris** received his second year predoctoral fellowship stipend of \$8,323 from the AFPE to help in his dissertation studies. Mr. Faris is a graduate student in the Department of Pharmacy Health Care under the direction of Dr. Rich Segal, Professor and Chair of the Department of Pharmacy Health Care.

**Ms. Lourdes Thornhill** received a predoctoral fellowship stipend of \$6,000 from the AFPE to help in her graduate studies entitled: “*A Model of Pharmacist Responsibility for Drug Therapy Outcomes.*” Ms Thornhill is working under the direction of Dr. Carole Kimberlin, Professor Department of Pharmacy Health Care.

Two graduate students in the Department of Pharmacodynamics **Ms. Robin Martin** and **Ms. Tranecia Clarke** both received two-year predoctoral fellowships from the American Heart Association-Florida Affiliates to help support their predoctoral studies. Each student will receive a \$14,000 stipend for FY 98/99 and a \$15,000 stipend for FY 99/00. Robin Martin is working on a dissertation entitled: “*Leptin Resistance Reduces GH Secretion and Contributes to the Pathogenesis of Obesity*”. Tranecia Clarke will be working under the direction of Dr. Ralph Dawson on a topic entitled: “*Role of PKC and TGF-Beta in the Cardiovascular Protective Mechanisms of Taurine.*”

**Mr. Michael Branham**, a doctoral student in the Department of Medicinal Chemistry working under the mentorship of Dr. Ian Tebbett, was the recipient of a McKnight Fellowship. The McKnight Doctoral Fellowship is a prestigious graduate program administered through the Florida Education Fund and provides support for highly qualified minority students for a period of three years. McKnight fellows receive an annual stipend plus tuition waiver and funds for books, supplies, major medical insurance and computer equipment. Michael was his final year of the McKnight Fellowship Program during FY 97/98. However, the University of Florida has committed to Michael an additional two years of support that includes support identical to that outlined in the McKnight Fellowship.

During 1997/98 academic year **Michael Branham** also received a R.W. Johnson Pharmaceutical Research Institute (PRI) Grant. PRI provided monies to the COP to support a minority student in the Florida A&M University (FAMU)/University of Florida joint Ph.D. program in Pharmaceutics. The amount of support given by PRI was a total of \$45,000 or \$15,000/year for a three year period. This award has provided Micheal with a annual stipend supplementation with the remaining monies supporting his doctoral research.



Two graduate students received continued support from training grants centered within the Health Science Center at the University of Florida this year. **Mr. Bruce Jung** working with Dr. Joanna Peris in the Department of Pharmacodynamics is supported by the NIH Alcohol Training. Grant #T32AA07561. Another student in the Department of Pharmacodynamics, **Ms. Pattie Green** is supported by the Neurobiology of Aging Training Grant #T32AG00196. Pattie is working with Dr. James Simpkins.

In addition to the awards listed above, the COP and ORTGE have various awards that provide supplements to recruit outstanding graduate students into one of our graduate programs (**Grinter** and **Florida Legislative Awards**). We also have an award to reward those students who have excelled both academically and in the laboratory during the first year of their graduate program (**Lippman Award**).

Awardees are recommended to the Graduate Studies Committee or the Associate Dean for Research and Graduate Studies by their respective graduate coordinator or departmental chair. Based on the student’s academic credentials and letters of support, individuals are selected by the Associate Dean for Research and Graduate Studies in discussions with the Graduate Studies Committee

**Grinter Awards:**

Originated in 1988, the intent of the *Grinter Fellowship Program* was to serve as a mechanism to recruit graduate students with outstanding academic credentials into one of graduate programs. These awards come from monies allocated from ORTGE on a college by college basis and supplement our existing state stipends an additional \$3,000 per year for a maximum of 3 years (\$9,000 total award). A statistical summary of the *Grinter* Program in the COP is illustrated in **Table 7**. Overall we have had a 71% acceptance of *Grinter* Scholarships by prospective students in which 40% have graduated from the program with either a Ph.D or M.S. degree. The overall average GPA for the *Grinter* Fellows is 3.55 with a GRE of 1269 and a TOEFL of 608.

<b>TABLE 7: Statistical Summary of Grinter Program - 1988 to present.</b>			
<b>Statistic</b>	<b>Overall</b>	<b>%</b>	<b>97/98class</b>
<b>Total number offered</b>	42		5
<b>Total number accepted</b>	30	71%	2
<b>Total number graduated</b>	12	40%	
<b>Total Number still enrolled: past &amp; present</b>	17	57%	
<b>Number of active awardees - FY 97/98</b>	11	65%	2
<b>GPA</b>	3.55		3.72
<b>GRE (Verbal + Quant)</b>	1262		1164
<b>TOEFL</b>	608		

In FY97/98 the COP offered 5 *Grinter* Fellowships, of which 2 accepted (63%). The GPA, GRE and TOEFL scores of the 97/98*Grinter* Fellows compares favorably with the overall GPA. However the GRE scores were lower than in the past (**Table 7**). The recipients of *Grinter* awards in 97/98are listed below:

<b>Ms. Sarah Poulos</b>	Medicinal Chemistry
<b>Mr. Avin Yaldo</b>	Pharmacy Health Care

**Florida Legislative Awards:**

This *Florida Legislative Awards* is a new fellowship program initiated in the 1996 Fall semester by the Office of Research and Graduate Education (ORTGE) through a mandate from the State of Florida Legislature (thus, giving the awards their name, *Florida Legislative Fellowships*). The legislature decreed that a portion of the 1995/96 7% tuition increase monies be dedicated for graduate student fellowships. The intent of the *Florida*



**Legislative** Fellowship Program is to serve as a mechanism to recruit top-quality graduate students with outstanding academic credentials into one or more of the graduate programs in the College of Pharmacy (COP). These awards will supplement our existing state stipends an additional \$2,500 per year for a maximum of 4 years (\$10,000 total award).

The COP received sufficient funds to support two **Florida Legislative** Awardees for FY 97/98. Through deliberations within the Graduate Studies Committee it was decided that the **Florida Legislative Awards** would be utilized to recruit graduate minority students into graduate programs within the COP. For the FY 97/98 academic year two minority students entered the COP as **Florida Legislative** Awardees. They are:

<b>Ms. Tranecia Clarke</b>	Pharmacodynamics
<b>Mr. Henry Young</b>	Pharmacy Health Care

### **Lippman Award:**

To honor the commitment of the **Honorable Fred Lippman** for his efforts in getting state support for the College of Pharmacy, the college instituted the **Lippman Award** in 1991. The **Lippman Award** is designated to acknowledge and enhance the academic development of a graduate student entering the second year of their graduate Ph.D. program who has excelled in both classroom and research activities. This award consists of a stipend supplementation of \$3,000 per year for up to 3 years. **Lippman** Awardee during FY 97/98 was:

<b>Mr. Bruce Jung</b>	Pharmacodynamics
-----------------------	------------------

### **University of Florida 1997-98 Graduate Student Teaching Awards:**

This year **Mr. William Garst**, a graduate student in our Department of Pharmacy Health Care, received one of the prestigious graduate student teaching awards for his excellence in classroom instruction to our professional pharmacy students. Bill received a certificate and \$500 from the graduate School for his accomplishments.

### **College of Pharmacy 11<sup>th</sup> Annual Research Showcase and Awards Recognition Day:**

A number of graduate students, postdoctoral fellows and undergraduate students received cash awards and commemorative plaques for participating in the COP “**Annual Research Showcase and Awards Recognition Day**”. The specifics of this day-long event and the award winners is listed in: **ORGS Coordinated Events for the COP - FY 97/98; Annual Research Showcase and Awards Recognition Day**, section of this report.

## Fourth Annual Research Day at UF Health Science Center/Jacksonville:

On June 5<sup>th</sup> 1998 the Jacksonville Research Day was held on the Jacksonville campus in which both oral (10) and poster (42) presentations were showcased. The College of Pharmacy was quite successful this year in that graduate personnel in the college received three of the six first-place awards. **Dr. Attila Juhaz**, a postdoctoral fellow in the Center for Drug Discovery under the direction of Dr. Nicholas Bodor, Graduate Research Professor, won first prize in the oral competition for his work entitled: “*Design and Evaluation of New Soft Anticholinergic Agents.*” For his efforts Attila received a \$500 cash award. **Mr. Fuxing Tang**, a graduate student working with Dr. Jeff Hughes in the Department of Pharmaceutics, won first prize in the graduate student oral competition for his paper entitled: “*Design Characterization of the Transfection and Plasmid DNA by a Disulfide linkage-Containing Cationic Lipid.*” For his efforts Fuxing received a \$500 cash award. **Mr. Sriram Krishnaswami**, a graduate student working with Dr. Hartmut Derendorf in the Department of Pharmaceutics won first prize in the graduate student poster competition for his poster entitled: “*Pharmacokinetic-Pharmacodynamic Profile of Systematic Nitric Oxide-Synthase Inhibition with L-NMMA in Humans.*” For his efforts Sriram received a \$300 cash award.

## UF Graduate Student Forum Awards:

At the 1997/98 Graduate Student Forum of the University of Florida held on April 3<sup>rd</sup>, 1998 the College of Pharmacy had eight graduate students compete for oral and poster competition prizes. This year we had one graduate student **Ms. Lourdes Thornhill**, a student in the Department of Pharmacy Health Care, win prizes in both the oral and poster competition. Lourdes earned third place honors for her oral presentation of: “*Aging, Health and Depression: Are Men and Women Different?*” in the Sociology and Communications Session. Lourdes then won second place in the Psychology and Sociology Poster session with her presentation of the same title: “*Aging, Health and Depression: Are Men and Women Different?*”

## International Student Academic Awards:

At the International Student Academic Awards Ceremonies held April 14<sup>th</sup>, 1998 in the Rion Ballroom at the Reitz Union, **five** of the College of Pharmacy International Graduate Students received awards for outstanding academic accomplishment. Each received an award certificate for their performance. The students were: **Ms. Yajaira M Bastardo** (Pharmacy Health Care), **Ms. Qiao-Qing Di** (Medicinal Chemistry), **Ms. Zhen Lou** (Medicinal Chemistry), **Mr. Fuxing Tang** (Pharmaceutics), and **Ms. Amparo de la Peña** (Pharmaceutics).

## Graduate Minority Activities.

The ORGS has continued to work with the Graduate School’s Office of Graduate Minority Programs (OGMP) and its Director, Mr. Robert Woods, in recruiting minority students into the college’s graduate programs. This year we submitted 40 complete application packages, along with individual departmental brochures to the OGMP to be distributed amongst the various minority schools in the nation. The ORGS continued to filter information down to the individual departments concerning funding opportunities for both graduate minority students as well as undergraduate minority students interested in a research career.

During the current year the Graduate Studies Committee made efforts to increase our recruitment within the COP by establishment of the Florida Legislative Awards (see above: **Graduate Student Funding and Awards; Florida Legislative Awards**). The awardees will receive an additional \$2,500/year for the next four years and are **Ms. Traneia Clarke** in the department of Pharmacodynamics and **Mr. Henry Young** in the Department of Pharmacy Health Care.

Minority Awards are also highlighted in the COP by the success of **Mr. Michael Branham** with his McKnight Fellowship and RW Johnson PRI Grant, as well as **Ms. Traneia Clarke** receiving her American Heart Association predoctoral fellowship (please see above: **Graduate Student Funding and Awards**).

## Research Activities in the College of Pharmacy for FY 1997/98

### Grant and Contract Efforts and Funding:

Pharmaceutical Research continues to be a major effort within the College of Pharmacy at the University of Florida. The College experienced a slight increase (8.8%) in NIH funding from FY 96/97. According to the American Association of Colleges of Pharmacy (AACCP) annual listing of Colleges of Pharmacy and their placement with other Schools of Pharmacy engaged in active Pharmaceutical Research, the University of Florida dropped from 13<sup>th</sup> place in 1996 to 15<sup>th</sup> place in 1997 (**Table 8**). However, the NIH support/FTE PhD rose to 14<sup>th</sup> place or \$90,955/FTE. These placements are based solely on Fiscal year NIH funding (October to September of a given year).

<b>TABLE 8: AACCP Statistics for NIH Funding</b>					
<b>NIH Fiscal Year</b>	<b>NIH Support</b>	<b>Rank</b>	<b>FTE Ph.D.s</b>	<b>NIH Support/ FTE- Ph.D.</b>	<b>Rank</b>
1996	\$2,591,094	13	33	\$78,518	16
1997	\$2,819,731	15	31	\$90,955	14

Our faculty members continue to be productive and are making efforts to obtain more extramural support for their individual research efforts. During the FY 97/98 the ORGS processed a total of 124 extramural grant or contract applications from the five Departments and our Administrative Office (**Table 9**) for a total of \$57,140,098 in **new** grant dollars. This is a significant increase in both numbers of grant/contract submissions (63%) and total dollars requested (116%) from FY 96/97 (see **Table 10**) and is a clear indication of the productivity of our faculty in going out and seeking extramural funding.

The majority of new proposals within the COP are proposals in which the Principal Investigators (PI) are faculty within the COP (**Table 9**). Note, however, that we are seeing a significant increase in the numbers of grant submissions with other faculty outside of the COP (compare **Tables 9 and 10**). This is an indication that our faculty members are partnering more with faculty in other colleges and becoming more involved in multidisciplinary projects, thus, bringing the “team” approach for research programs more into the forefront.

**Table 11** shows total extramural research dollars brought into the College over the last five academic years (from June to July of a given year). Extramural monies established solely for research showed a steady gain and reached a peak in FY 1995/96 with \$4,539,237 total research dollars. In FY 97/98 our research funding dollars totaled \$4,322,657 which is an 8.6% increase over FY 96/97. This was associated with a 23% increase in the total number of projects funded from the previous year (101 for FY 97/98 versus 82 for FY 96/97).

Departmental comparisons show that Medicinal Chemistry continues to have the majority of research dollars within the COP (41.6%). However, Pharmacodynamics, Pharmacy Health Care and Pharmacy Practice Departments each showed significant gains extramural funding from FY 96/97 with a 62%, 236% and 91% increase respectively. Of significant was the increase in FY 97/98 of the number of awards in both Pharmacy Health Care and Pharmacy Practice Departments over FY 96/97.

<b>TABLE 9: Proposal Processing Summary - FY 97/98</b>			
<b>Dept.</b>	<b>Inside the College</b>	<b>Outside the College</b>	<b>Total</b>
<b>College Total</b>			
# proposals	98	26	124
Total Amount	\$18,069,574	\$39,070,524	\$57,140,098
<b>Administration</b>			
# proposals	1	0	1
Total Amount	\$58,710	\$0	\$58,710
<b>Medicinal Chemistry</b>			
# proposals	15	6	21
Total Amount	\$3,986,986	\$8,834,868	\$12,821,854
<b>Pharmaceutics</b>			
# proposals	39	7	46
Total Amount	\$7,557,223	\$5,322,857	\$12,880,080
<b>Pharmacodynamics</b>			
# proposals	26	10	36
Total Amount	\$4,043,640	\$20,737,947	\$24,781,587
<b>Pharmacy Health Care</b>			
# proposals	12	2	14
Total Amount	\$1,936,943	\$4,088,102	\$6,025,045
<b>Pharmacy Practice</b>			
# proposals	5	1	6
Total Amount	\$486,072	\$86,750	\$572,822

Inside the College = PI was a COP faculty member.

Outside the College = PI was outside the COP; COP personnel were co-investigators.

<b>TABLE 10: Proposal Processing Comparison</b>			
<b>Dept.</b>	<b>Inside the College</b>	<b>Outside the College</b>	<b>Total</b>
<b>FY 96/97</b>			
# proposals	66	10	76
Total Amount	\$15,848,461	\$10,568,750	\$26,417,211
<b>FY 97/98</b>			
# proposals	98	26	124
Total Amount	\$18,069,574	\$39,070,524	\$57,140,098

Inside the College = PI was a COP faculty member.

Outside the College = PI was outside the COP; COP personnel were co-investigators.

**TABLE 11: Extramural Research Dollars - FY93/94 to FY 97/98**

Faculty	93/94	94/95	95/96	96/97	97/98	93/98	% of total
<b>COLLEGE TOTAL</b>	<b>\$4,164,462</b>	<b>\$4,507,741</b>	<b>\$4,539,237</b>	<b>\$3,978,780</b>	<b>\$4,322,697</b>	<b>\$4,302,583</b>	<b>100.0%</b>
IDC	\$824,702	\$944,757	\$918,790	\$750,774	<b>\$870,172</b>	\$861,839	100.0%
# grants	98	92	94	84	<b>101</b>	94	
%IDC	24.7%	26.5%	25.4%	23.3%	<b>25.2%</b>	25.0%	
<b>Medicinal Chemistry</b>	<b>\$1,424,033</b>	<b>\$2,040,967</b>	<b>\$1,632,649</b>	<b>\$1,999,956</b>	<b>\$1,843,495</b>	<b>\$1,788,220</b>	<b>41.6%</b>
IDC	\$278,501	\$456,584	\$353,362	\$388,870	<b>\$348,502</b>	\$365,164	42.4%
# grants	11	15	18	24	<b>19</b>	17	
%IDC	24.3%	28.8%	27.6%	24.1%	<b>23.3%</b>	25.6%	
<b>Pharmaceutics</b>	<b>\$1,339,188</b>	<b>\$1,051,375</b>	<b>\$1,411,202</b>	<b>\$963,616</b>	<b>\$602,026</b>	<b>\$1,073,481</b>	<b>24.9%</b>
IDC	\$292,798	\$225,972	\$329,182	\$150,612	<b>\$147,102</b>	\$229,133	26.6%
# grants	32	32	33	20	<b>14</b>	26	
%IDC	28.0%	27.4%	30.4%	18.5%	<b>32.3%</b>	27.3%	
<b>Pharmacodynamics</b>	<b>\$942,323</b>	<b>\$956,625</b>	<b>\$781,916</b>	<b>\$604,835</b>	<b>\$979,510</b>	<b>\$853,042</b>	<b>19.8%</b>
IDC	\$227,700	\$211,377	\$158,358	\$165,505	<b>\$253,578</b>	\$203,304	23.6%
# grants	25	18	11	14	<b>17</b>	17	
%IDC	31.9%	28.4%	25.4%	37.7%	<b>34.9%</b>	31.6%	
<b>Pharmacy Health Care</b>	<b>\$187,105</b>	<b>\$200,399</b>	<b>\$346,640</b>	<b>\$77,820</b>	<b>\$261,094</b>	<b>\$214,612</b>	<b>5.0%</b>
IDC	\$7,514	\$23,944	\$43,500	\$13,078	<b>\$39,858</b>	\$25,579	3.0%
# grants	10	10	9	6	<b>10</b>	9	
%IDC	4.2%	13.6%	14.3%	20.2%	<b>18.0%</b>	14.1%	
<b>Pharmacy Practice</b>	<b>\$271,813</b>	<b>\$258,375</b>	<b>\$366,830</b>	<b>\$332,553</b>	<b>\$636,572</b>	<b>\$373,229</b>	<b>8.7%</b>
IDC	\$18,189	\$26,880	\$34,388	\$32,709	<b>\$81,132</b>	\$38,660	4.5%
# grants	20	17	23	20	<b>41</b>	24	
%IDC	7.2%	11.6%	10.3%	10.9%	<b>14.6%</b>	10.9%	

IDC = indirect cost monies.

**TOTAL EXTRAMURAL FUNDING** to the COP is illustrated in **Table 12**. Total extramural support includes not only **RESEARCH** funds (also found in **Table 11**) but also those **ADMINISTRATIVE** funds which include professional service contract fees to support the clinical enterprises at Tacachale, the Veteran's Administration Hospital, University Medical Center in Jacksonville and the Poison Information Center. **ADMINISTRATIVE** funds have showed an average 9.5% yearly increase over the five-year period. When **Total Extramural Funding** is considered (**Table 12**), the COP showed an 8.9% increase in FY 97/98 from FY 96/97 and is the highest in the history of the COP (\$6,967,173).

**TABLE 12: Total Extramural Support - FY 93/94 to FY 97/98**

Dept.	93/94	94/95	95/96	96/97	97/98	Average 93/98
<b>COLLEGE TOTAL</b>	<b>\$6,008,900</b>	<b>\$6,573,494</b>	<b>\$6,742,359</b>	<b>\$6,332,574</b>	<b>\$6,967,173</b>	<b>\$6,524,900</b>
IDC	\$824,702	\$947,383	\$918,894	\$750,774	<b>\$870,172</b>	\$862,385
# grants	108	105	103	91	<b>113</b>	104
%IDC	15.9%	16.8%	15.8%	13.5%	<b>14.3%</b>	15.2%
<b>RESEARCH</b>	<b>\$4,164,462</b>	<b>\$4,507,741</b>	<b>\$4,539,237</b>	<b>\$3,978,780</b>	<b>\$4,322,697</b>	<b>\$4,302,583</b>
IDC	\$824,702	\$944,757	\$918,790	\$750,774	<b>\$870,172</b>	\$861,839
# grants	98	92	94	82	<b>101</b>	93
%IDC	24.7%	26.5%	25.4%	23.3%	<b>25.2%</b>	25.0%
<b>ADMINISTRATION</b>	<b>\$1,844,438</b>	<b>\$2,065,753</b>	<b>\$2,203,122</b>	<b>\$2,353,794</b>	<b>\$2,644,476</b>	<b>\$2,222,317</b>
IDC	\$0	\$2,626	\$104	\$0	<b>\$0</b>	\$546
# grants	10	13	9	9	<b>12</b>	11
%IDC	0.0%	0.1%	0.0%	0.0%	<b>0.0%</b>	0.0%

IDC = indirect cost monies.

Outlined below in **Table 13** is a breakdown of the COP extramural support by Sponsor type and number of awards. The COP's main source of extramural support for FY 97/98 continues to be from both federal and state dollars. State dollars go to support our clinical enterprise while the federal dollars are earmarked almost entirely for research purposes. A more complete breakdown of Sponsor categories, numbers of awards and total dollars including indirect costs can be seen in **Tables 14-18**. Noteworthy is the number of Corporations and Companies that COP faculty members have developed relationships with (**Table 16**).

In **Appendix A**: a complete listing of all extramural support by Department and Faculty member can be found.

<b>TABLE 13: Comparison by Sponsor</b>		
Sponsor Category	# of awards	total dollars
<b>Federal Agencies</b>	<b>20</b>	<b>\$2,478,645</b>
<b>Florida State Agencies</b>	<b>8</b>	<b>\$2,001,066</b>
<b>Corporations and Companies</b>	<b>54</b>	<b>\$1,472,889</b>
<b>Foundations &amp; Societies</b>	<b>29</b>	<b>\$974,409</b>
<b>Other</b>	<b>2</b>	<b>\$40,164</b>
<b>Total</b>	<b>113</b>	<b>\$6,967,173</b>

Sponsor	Count	Total	IDC
U S Dept Hlth & Hm Ser	19	\$2,324,318	\$577,491
NIH	18	\$2,265,608	\$577,491
Hlth Res & Serv Adm	1	\$58,710	\$0
U S Dept Vet Aff	1	\$154,327	\$0
<b>Total Federal Agencies</b>	<b>20</b>	<b>\$2,478,645</b>	<b>\$577,491</b>

IDC = indirect costs

Sponsor	Count	Total	IDC
Agcy For Health Care Admin	1	\$15,680	\$1,286
Dept Of Children & Families	4	\$682,594	\$0
Dept Of Health	3	\$1,302,792	\$0
<b>Total Florida State Agencies</b>	<b>8</b>	<b>\$2,001,066</b>	<b>\$1,286</b>

IDC = indirect costs

Sponsor	Number	Total	IDC
Apollo Genetics	2	\$21,750	\$6,750
Astra Merck Inc	3	\$75,000	\$8,035
Bio-Pharm Clinical Services	2	\$38,231	\$7,646
Covance Inc	9	\$30,122	\$5,322
Curagen Corp	1	\$2,000	\$0
Dupont Company	1	\$1,875	\$170
Emisphere Technologies	2	\$28,156	\$4,693
Facilitators Of Appl Clin Trls	1	\$842	\$168
Glaxo Wellcome Inc	6	\$114,000	\$11,800
Health Education Resources	1	\$2,750	\$550
Helene Curtis Inc	2	\$31,516	\$6,893
Knoll Pharmaceutical Company	1	\$42,000	\$8,400
Merck & Company Inc	6	\$212,854	\$36,519
Merck Research Foundation	1	\$7,000	\$0
MI Laboratories Plc	3	\$73,578	\$14,714
Pharmos Corp	1	\$6,000	\$0
Respiratory Research Institute	6	\$65,000	\$13,000
Searle & Company, G D	1	\$56,940	\$11,388
Sunpharm Corp	3	\$656,250	\$131,250
Vista Biomed Inc	1	\$1,875	\$170
Warner-Lambert Company	1	\$5,150	\$1,030
<b>Total Corporations &amp; Companies</b>	<b>54</b>	<b>\$1,472,889</b>	<b>\$268,498</b>

IDC = indirect costs



Sponsor	Count	Total	IDC
Am Fdtn for Pharm Ed	1	\$6,000	\$0
Am Heart Assoc - Fl	4	\$208,066	\$8,365
Am Pharmaceutical Assn	1	\$21,500	\$1,955
Am Soc Consul Pharm	1	\$72,335	\$5,495
Natl Kidney Fdtn	1	\$17,296	\$0
Pda Fdtn For Pharm Sci	1	\$15,000	\$0
Shands Hospital	1	\$14,615	\$0
U F Foundation	13	\$104,004	\$0
U F Res Fdtn	2	\$10,830	\$0
Univ Med Cntr Inc	4	\$504,763	\$0
<b>Total Fdtns &amp; Soc</b>	<b>29</b>	<b>\$974,409</b>	<b>\$15,815</b>

IDC = indirect costs

Sponsor	Count	Total	IDC
Multiple Sources	1	\$4,700	\$940
Univ British Columbia	1	\$35,464	\$7,092
<b>Total Other</b>	<b>2</b>	<b>\$40,164</b>	<b>\$8,032</b>

IDC = indirect costs

### Undergraduate Student Research Activities:

As the understanding for the development of new pharmaceutical agents and streamlining the drug use process is an integral part of a pharmacy student's education, the College of Pharmacy offers a series of "**Problems In Pharmacy**" courses that exposes students to various aspects of the research process. Each department in the college offers a "**Problems In Pharmacy**" course that is designed to specifically target their individual research areas.

In addition to the "**Problems In Pharmacy**" courses, undergraduate students interested in research have selected faculty mentors and have submitted grant or fellowship applications to outside funding agencies to support their research efforts. This year was a banner year for this type of activity in the COP. We had **6** undergraduate professional students secure extramural stipend and research supply funds from **3** different sources this year.

For FY 97/98 undergraduate professional students in the UF College of Pharmacy received four of the fifteen **American Foundation for Pharmaceutical Education (AFPE)-Gateway Scholarships for Professional Degree Pharmacy Students**. This prestigious **NATIONAL** program is coordinated by the AFPE through grants from Novartis, Schein, Schering-Plough, SmithKline Beecham, Amgen, Bristol-Myers Squibb, Glaxo Wellcome, National Association of Chain Drug Stores, American Association of College of Pharmacy, and Pharmacia & UpJohn. Individual recipients receive a \$4,250 stipend and/or supply allowance to conduct their research activities with a faculty mentor.

The four recipients of the AFPE-Gateway Scholarships for FY 97/98 were:

1. **Ms. Karina Wilcox**, worked with Dr. Ray Bergeron, Graduate Research Professor in Medicinal Chemistry, on her project entitled: "**Use of Polyamine Analogs to Control the Growth of Cancer by Disrupting the Polyamine Metabolism of the Tumor Cells.**"
2. **Mr. Stephanie Stancil**, was mentored by Dr. Ken Sloan, Professor in Medicinal Chemistry, and worked on her project entitled: "**Topical Delivery of 5-fluorouracil.**"
3. **Mr. John Andrew Stamm**, worked with Dr. Jeff Hughes, Assistant Professor in Pharmaceutics, on his proposal entitled: "**Pharmacokinetic/Pharmacodynamic Gene Lung Delivery.**"
4. **Ms. Mina Nepomuceno Salafranca**, worked with Dr. Jeff Harrison, Assistant Professor of Pharmacology and Therapeutics, on her proposal entitled: "**Characterization of Rat Fractalkine Receptor CX3CR1 in Transfected CHO Cells.**"

**Ms. Cinde Howell** received one of nine **Merck/American Federation for Aging Research (AFAR) - Research Scholarship in Geriatric Pharmacology for Medical and Pharmacy Students** given nationally. The American Federation for Aging Research (AFAR) in collaboration with Merck provides summer stipend support of \$4,000 for medical and pharmacy students to conduct independent research related to an aspect of geriatric pharmacology. Cinde worked with Dr. Gayle Brazeau, Assistant Professor of Pharmaceutics, and Dr. Jim Simpkins,



Professor of Pharmacodynamics, on her project entitled: “*The Effect of Estrogen Deprivation on Heat Shock Protein-70 Expression in Rat Skeletal Muscle.*”

Three pharmacy students also received summer research support (3 month) in the form of a \$2,400 stipend compliments of the College of Medicine and their NIH training grant: “***Short-term training - Students in Health Professional Schools***”. This training grant is earmarked to facilitate the exposure of students in health professional schools to the research process. **Mr. John Andrew Stamm** worked with Dr. Jeff Hughes, Assistant Professor in the Department of Pharmaceutics in the college. **Mr. Rob Kersting** worked with Dr. Aryn Rojiani, Assistant Professor in the Department of Immunology, Pathology and Laboratory Medicine in the College of Medicine, and **Ms. Mina Salafranca** worked under the direction of Dr. Jeff Harrison, Assistant Professor in the Department of Pharmacology and Therapeutics in the College of Medicine.

**Ms. Mina Salafranca**, working with Dr. Jeff Harrison, Assistant Professor of Pharmacology and Therapeutics in the College of Medicine, received \$100 and a commemorative plaque for winning the undergraduate poster category of the college’s 11<sup>th</sup> Annual Research and Awards Recognition Day. Please see **ORGS Coordinated Events for the COP - FY 97/98, Annual Research Showcase and Awards Recognition Day**, for details.

## US-THAI Consortium Activities FY 97/98

### History of the US-Thai Consortium:

In 1993 the University of Florida College of Pharmacy and nine other US Pharmacy Schools and the American Association of Colleges of Pharmacy entered into an international agreement with all nine (at that time) Thailand Colleges of Pharmacy, designated the US-THAI Consortium Agreement.

The mission of this US-THAI agreement is to provide Thai pharmacists (faculty at the various Thai pharmacy schools), who are selected by a Royal Thai Government Panel, the opportunity for advanced professional (PharmD) or graduate (Ph.D.) study in programs in the selected US pharmacy schools. In return, the Royal Thai government will pay all stipend and tuition costs for these students for a period of five years and provide return favors for both professional students and faculty to visit Thailand and become involved in post-graduate pharmacy education abroad. Furthermore, the initial agreement was for the Thai government to support, and the US colleges to educate, 100 Thai faculty (i.e. approximately 10 students/US college) over the ensuing 10 years.

As part of the original charter, it was agreed that all parties would meet once a year to discuss the progress of the US-THAI consortium. These annual meetings would be held in either Thailand or the US on alternating years... with the first meeting being held in Bangkok, Thailand in 1994; at Purdue University in 1995, at Phuket, Thailand 1996 and this year in Baltimore, MD.

### Current List of THAI and US Schools of Pharmacy in the Consortium

#### THAI

1. Chulalongkorn University
2. Mahidol University
3. Khon Kaen University
4. Srinakharinwirot University
5. Prince of Songkla University
6. Silpakorn University
7. Ubon Ratchathani University
8. Chiang Mai University
9. Naresuan University
10. Thammasat University

#### US

1. University of Florida
2. Purdue University
3. Ohio State University
4. University of Wisconsin
5. University of Arizona
6. University of Minnesota
7. University of Illinois at Chicago
8. University of Maryland at Baltimore
9. University of North Carolina
10. Rutgers University

### Summary of 1997/98 US-THAI Consortium Meeting in Baltimore:

The full meeting (presentations and business) was held August 16<sup>th</sup> in which nine of the ten Thai colleges of Pharmacy were represented (Chiang Mai was not represented), and nine of the ten US Pharmacy Schools attended the meeting (Wisconsin was not represented).

Dr. Pavich Tongroach (Director of the Thai Ministry of University Affairs and President of Mahasarakham University) opened the meeting with a presentation on **The Future trends of Pharmacy Education and the Profession in Thailand**. Thailand is a country of 60,000,000 people of which there are 10,000 pharmacists (1 pharmacist to every 6,000 populous). Furthermore, there are 10,000 drug stores in Thailand in which only 1,000 have pharmacists in charge. Therefore 1 out of 10 pharmacies in the country dispense pharmaceuticals without the oversight of a pharmacist. Most pharmacists, upon graduation from pharmacy school, go to the pharmaceutical industry for a period (drug industry is dominated by pharmacists) and not to community or hospital pharmacies. Currently pharmacists are licensed immediately upon graduation from pharmacy school. This will soon change as the Thai government is actively seeking an initial licensing exam prior to practice and a license renewal process... thus, the need for continuing education. Thailand is committed to increasing the number of hospital pharmacists, an insurgence of clinical pharmacy and pharmaceutical care. They would like to double their number of pharmacists entering the profession by 2002.

Dr. Sumon Sakolchai (Vice President of Khon Kaen University and past dean of its pharmacy School) then summarized the **Non-traditional Masters Degree Program**. This program has its beginning with Khon Kaen University in 1990; but because of increased demands expanded to three additional universities in 1995: Chiang Mai, Silpakorn and Prince of Songkla University. This program is similar to our WPPD in which students enroll on a part time basis without leave of absence from their jobs except when clerkships are required. Thirty six credits are required to complete the degree with 24 credits of course work and 12 credits for a thesis. The students may also attend various workshops in Pharmacy at a number of designated hospitals and then must complete two four week clerkships.

Dr. Mondhon Sanguansermisri from Naresuan University gave a brief overview of his College's new **Thai PharmD** program. It is the only approved PharmD program in Thailand and has accepted its first class of 13 students (8 female and 5 male) for this year. It is, again, based similarly to our Gainesville WPPD in which the students will spend two years completing some core courses with the majority of their efforts doing clinical rotations.

Dr. Gary Hollenbeck from Maryland then gave his perspective of the **Transition to the PharmD in the United States** in which he outlined the driving forces for the need for the PharmD and then gave a brief review of the UMB PharmD curriculum (it is impressive!).

Dr. Orapan Matangkasombat who will soon take over (in October) for Dr. Chantra Shaipanich as Dean of Mahidol University then gave a few brief over-view of **Trends in Research in Pharmaceutical Sciences** in Thailand. The Thai's still having a major interest in Natural Products and Pharmacognosy, with some efforts to drug formulation. However, they have certainly realized that molecular approaches to drug discovery, development and testing (Biotechnology) will be where they should be making efforts to strengthen.

In the business meeting each of the participating schools summarized their activities for the year. The problem of English Language Skills, especially for the PharmD and Ph.D in Pharmacy Administration was again thoroughly discussed and rehashed. The Thai delegates realize that English Language skills are deficient with most students and are working to improve these skills by increasing the number of hours in English courses.

The Thai would like increase the number of "short-term visits" from 9 to 11 per year by 1999. Nine Thai faculty traveled to the US in FY 1996/97 to engage in short term (3 month duration) training specialty courses related to CAI in Pharmacy Practice and in Pharmaceutical Biotechnology. All that is required by the US institutions is to provide the expertise and research funds for the short-term visit. Travel to and from the US, the faculty's stipend, and any tuition costs would be covered by the Thai Consortium.

They would like to maintain the number of reverse short-term visits to 6 per year through 2006. These short term visits are US faculty who travel to Thailand (1-2 month interval) and are generally associated with workshops in some aspect of the pharmacy profession. Dr. Tom Baumgartner traveled to Hat Yai, Thailand in July to participate in a workshop in aseptic dispensing. Both faculty members were highly regarded and their efforts praised by the Thai Deans.

It was noted that many schools are still having difficulty trying to get confirmation on the status of whether a student has received a Royal Thai Scholarship or not. To facilitate the process, it was suggested that, 3-5 copies of pertinent applications along with flyers from each of the Ph.D. programs and the WPPD with a letter requesting formal notification be sent to each of the Deans of the various schools. We also have a US-THAI list-serve that will help in the communication of information from the various institutions.

Very briefly, Dr. Piti Trisdikoon (Dean, Prince of Songkla University) noted that the country of Thailand is lacking in the production of researchers and Ph.D. level faculty. Thus, the country has instituted a new project called: ***The Royal Golden Jubilee Project***. Not much was explained at the meeting as we were running out of time. Essentially it is a cooperative international graduate program with Thai schools who have existing Ph.D. programs and any participating US colleges. The Thai government would give research grants (approx. \$80,000) to selected students at the Thai institutions to undertake a joint Ph.D. program with faculty at US institutions. Students would take courses in Thailand and the US and do their research projects again both in the US (mainly) and Thailand. In doing this each student would share joint (US and Thai) mentors. Many things need to be discussed before this is implemented.

It was noted at the business meeting that many of the Thai students who train (Ph.D.) abroad and go back to Thailand end up very soon in administrative positions, thus, severely hampering their active research life... if any. A number of US members noted to the Thai delegates, that the Thai Universities need to give the returning faculty time to get their research enterprises going and to train their technical people before entering the administrative ranks.

The business meeting closed with Dr. Piti Trisdikoon from Prince of Songkla University noting that next year's consortium meeting will be held in Cha-um, Thailand a resort community South of Bangkok. The meeting will be held as a satellite meeting of the Thailand Annual Pharmacy Congress meeting from June 25<sup>th</sup> to the 27<sup>th</sup>. The theme of the Congress will be "Pharmacy Education in Thailand in the 21<sup>st</sup> Century". This ended the meeting of the US-THAI consortium.

Outside of the business meeting the notion that Thai students who attend Universities in the UK pay "bench fees" as part of their training. Bench fees are in essence fees to do research and can be as much as \$10,000/year depending on the institute and area of research training. Bench fees were never considered in the original agreement. We (later) found out that **ALL doctoral students** in the UK must pay a "bench fee" in consort to their degree program to obtain their doctorate. In essence students pay for their research in the UK. Thus the normal "bench fee" is part of the fees charged the Thai students to attend the respective UK universities... like all students.

That evening we had dinner at the University of Maryland College of Dentistry's Museum. The Dental College is the oldest Dental School in the United States.

### Thai Students in the College of Pharmacy:

Listed below (**Table 19**) is the current total number of Thai students who have received Royal Thai scholarships from their government to study abroad for either their Ph.D. or PharmD degree. This year we accepted **three** new students into our Ph.D. or PharmD programs at UF. Ms. Napaporn and Chancham entered the Pharmaceutics Ph.D. program, while Mr. Nathisuwan was accepted into our WPPD (PharmD) program. The names in parenthesis indicate the abbreviated name given to each student.

Ten other Thai students applied to our Ph.D. and PharmD programs during the 1996/97 academic year but opted to go to other US institutions to complete their studies or were denied entrance.

**TABLE 19: Thai Students in the College FY 97/98**

NAME	THAI PHARMACY COLLEGE	DATE ENTERED
<b>Pharmacy Health Care Ph.D Program:</b>		
1. Ms. Ratanaporn Awiphan (Ju)	Chiang Mai	May, 1995
2. Mr. Summana Moolasarn (Sam)	Ubon Ratchathani	January, 1996
<b>Pharmaceutics Ph.D. Program:</b>		
3. Ms. Jintana Napaporn (Ginny)	Ubon Ratchathani	August, 1997
4. Patravadee Chancham (Oh)	Khon Kaen	August, 1997
<b>Working Professional PharmD Program:</b>		
5. Ms. Aroonut Lucksiri (Noi)	Chiang Mai	August, 1996
6. Mr. Surakit Nathisuwan (Kit)	Mahidol	August, 1997

We are pleased to announce that Dr. Aroonut Lucksiri (Noi) graduated from our International Working Professional PharmD Program in May, 1998. Noi is UF COP's first graduate under the US/THAI arrangement and is currently a graduate student at Purdue University College of Pharmacy working towards her Ph.D. in Clinical Pharmacy. We wish her all the best in her future career.

## UF Faculty visiting Thailand:

Dr. Tom Baumgartner, Clinical Pharmacy Specialist at Shands Hospital and Clinical Professor at the College of Pharmacy spent two weeks in Thailand this past July providing parenteral nutritional training to Thai Pharmacists and healthcare workers. While in Thailand Dr. Baumgartner participated in a Thai workshop (July 7-11) on parenterals at Hat Yai (Prince of Songkla University). During his stay in Hat Yai, Dr. Baumgartner provided 22 hours of lecture and visited numerous intensive care units. He then traveled to Chiang Mai, Thailand and gave 2.5 hours of lecture on parenteral nutrition to faculty and pharmacists at Chiang Mai University.

## Thai Faculty visiting UF College of Pharmacy:

Following a very productive meeting in Baltimore, MD with the representatives of the US-Thai Consortium, the University of Florida College of Pharmacy was visited on Thursday and Friday August 21 and 22 by a group of Thai educators. The visiting party included:

- |                                |   |
|--------------------------------|---|
| 1. Dr. Sumon Sakolchai         | Vice President, Khon Kaen University              |
| 2. Dr. Mondhon Sanguansermisri | Dean of Pharmacy, Naresuan University             |
| 3. Dr. Chavane Tongroach       | Dean of Pharmacy, Srinakarinwirote University     |
| 4. Dr. Kanit Suwanborirux      | Assoc. Dean of Pharmacy, Chulalongkorn University |
| 5. Dr. Wanchai Sutananta       | Dean of Pharmacy, Silpakorn University            |
| 6. Ms. Jutamas Ravibunjurdkul  | Ministry of University Affairs                    |

On **THURSDAY - AUGUST 21, 1997** the visiting Thai representatives had a wonderful dinner with Dean William H. Riffie whereby they discussed the US-Thai arrangements for the present and future. At this dinner the Thai party formally invited Dr. Riffie to attend the 1998 US Thai meeting in Cha-um, Thailand next June 25 to the 27. Dr. Riffie accepted the invitation and will be giving a working demonstration on "Technology in the Future of Pharmacy Education".

On **FRIDAY AUGUST 22** the Group had a very busy schedule. In the morning they met with Dr. Gayle Brazeau concerning our new PharmD Curriculum and Dr. Sven Norman discussing our Working Professional PharmD Program.

They then had lunch with all of the Department Chairs followed by meetings with various faculty of departments who currently have Thai students. Dr. Jeffrey Hughes represented Pharmaceutics and Drs. Richard Segal and Carole Kimberlin represented Pharmacy Health Care Administration.

The Thai representatives ended their day with a meeting with Drs. Larry Lopez and Randall Doty discussing UF's various Clerkship and Rotations sites. Dr. Millard then gave them a brief tour of the UF Health Center prior to the party returning to their hotel for rest before dinner.

For dinner, they all went to the Gainesville Bahn Thai restaurant with a trip to Harry's Restaurant for some Native Florida "Key Lime Pie" and Bananas Foster. The Thai party was graciously hosted by Drs. Gayle Brazeau and Jeff Hughes and all of the Thai students at UF.

On **SATURDAY - AUGUST 23** the UF Thai students took the visiting party to Silver Springs in Ocala, FL for some sightseeing, relaxation and trips on the glass-bottom boats!

## ORGS Coordinated Events for the COP - FY 97/98

Two major COP functions are coordinated by the ORGS (Post-baccalaureate Reception and the Annual Research Showcase and Awards Recognition Day). These events are described below.

### Post-baccalaureate Reception:

The annual post-baccalaureate reception is held annually at the beginning of the Fall semester as an event to introduce all **new** faculty, graduate students, postdoctoral fellows and research associates to the COP community. This year the event was held on Wednesday, September 17, 1997 in the Arredondo Room at the Reitz Student Union from 6:00 PM to 9:00 PM. One hundred and twelve people from the COP attended including guests. At the event 12 graduate students were introduced to the audience as well as 7 new postdoctoral fellows and research associates.

### Annual Research Showcase and Awards Recognition Day:

Our 11<sup>th</sup> Annual Research Showcase and Awards Recognition Day took place on Friday, April 17, 1998 at the University of Florida, College of Pharmacy. A program booklet is included in **Appendix C** that outlines the day's events, competitors for each of the divisions and the judges for each of the events.

This year's Showcase and Awards Recognition Day could not have taken place without the financial backing of three sponsors. **Barr Laboratories, Inc.** was the major sponsor of the Annual Research Showcase and Awards Recognition Day with a \$6,000 donation. It was through Dr. Robert Bell, Vice President of New Drug Development, and Ph.D. class of 1988 that we received this generous donation from Barr Labs. **IVAX Corporation** sponsored the poster competition with a \$1,000 donation. Our contact with IVAX was through Dr. Francisco Alvarez, Analytical Research and Development Director, Baker-Norton Pharmaceuticals, and Ph.D. Class of 1981. **Dr. Robert A. and Phyllis Levitt** of Boca Raton and Gainesville, FL sponsored the *Levitt division* of the Oral Competition with a \$1,000 gift. Dr. Levitt and his wife have sponsored this portion of the competition for the last five years.

In recognition of this annual affair, **Dr. Sanford Bolton**, retired Professor from St John's University and currently affiliated with the University of Arizona, was our keynote speaker as well as a judge for the oral competition. Dr. Bolton addressed an audience of approximately 80 people on the topic of "**Bioequivalence Studies: Design and Analysis**".

The Showcase and Awards Recognition Day is full of excitement and discovery, as graduate students, undergraduate students and postdoctoral fellows from throughout the College compete (via posters and platform presentations) for the distinction of being the "*best*" in one of the following categories:

#### Oral Competition

- Senior graduate division
- Junior graduate division
- Levitt division

#### Poster Competition

- Graduate Student category
- Post-doctoral Fellow category
- Undergraduate Student category.

The finalists for the oral competition divisions submit competitive abstracts that are reviewed and selected by the Graduate Studies Committee in the college. The *senior graduate division* of the Oral Competition applies to those graduate students who are in the final stages of the graduate education. The *junior graduate category* pertains only to graduate students who are in the first two years of their graduate program. The *Levitt* division was established in 1993 to recognize those graduate students who are doing graduate work related to neuropharmacology.

The finalists in each of the oral divisions give a 10-15 minute presentation followed by a 3-5 minute question/answer period. Based on the students abstract and their presentation a winner in each division is selected by a panel of judges. Winners receive a \$500 cash prize and commemorative plaque. Each of the finalists receives a \$200 check and a commemorative plaque.

Judges for the oral competition were: **Dr. Russell M. Bauer** (Professor, Department of Clinical and Health Psychology; College of Health Professions); **Dr. Sanford Bolton** (Adjunct Professor; University of Arizona, College of Pharmacy); **Dr. Ray Jurgens, Jr.** (Scientific Liaison, Berlex Laboratories); **Dr. Michael A. King** (Associate Scientist, Department of Neuroscience; College of Medicine); and **Dr. A. Garnell Rogers** (Senior Scientist, Solvay Pharmaceuticals; Inc.).

This year's winners for the oral competition were:

*Senior Division – winner (tie)*

**Scott Poxon** Pharmaceuticals \$350 cash award  
Title: “A Potential Gene Therapy Pitfall: The Interaction of Endotoxin and Cationic Liposomes”.

*Senior Division – winner (tie)*

**Earvin Liang** Pharmaceuticals \$350 cash award  
Title: “Membrane Fusion and Rupture in Liposomes: Effect of Biodegradable pH-sensitive Surfactants (BPS)”.

*Senior Division - finalist*

**Fenglei Huang** Pharmaceuticals/Center for Drug Discovery \$200 cash award  
Title: “Design, Synthesis, and Pharmacological Evaluation of a New Class of Soft Anticholinergics”.

*Junior Division - winner*

**Amparo de la Peña** Pharmaceuticals \$500 cash award  
Title: “Measurement of Unbound Tissue Concentrations of Antibiotics by Microdialysis”.

*Junior Division - finalist*

**Bruce Jung** Pharmacodynamics \$200 cash award  
Title: “Endogenous GABA Release is Reduced from the Striatum of Cocaine-sensitized Rats”.

*Junior Division - finalist*

**Fuxing Tang** Pharmaceuticals \$200 cash award  
Title: “Synthesis of a Cationic Lipid Containing a Disulfide Linkage and Characterization of its Gene Transfer In Vitro”.

*Levitt Division - winner*

**Pattie Green** Pharmacodynamics/Center for Neurobiology of Aging \$500 cash award  
Title: “Estrogen-Receptor Independent Neuroprotection by Phenolic A Ring Estratrienes: A Potential Role for the Transcription Factor NFκB”.

*Levitt Division - finalist*

**Ming Hu** Pharmacodynamics \$200 cash award  
Title: “Chronic Ethanol Exposure Changes Cholinergic Receptor Modulation of <sup>3</sup>H-GABA Release in Rat Hippocampus”.



For the poster competition this year we had 20 posters from graduate students, post-doctoral fellows and undergraduate students on display in the atrium of the Academic Research Building (ARB). The posters were manned in the morning between 9:30 and 11:30 AM in which individual judging took place.

The winner for the graduate student category of the poster division received a \$200 check and a commemorative plaque. The winners of the post-doctoral fellow and undergraduate student categories each received a \$100 check and a commemorative plaque for their efforts.

The poster judges were: **Dr. Robert Bell** (Vice President, New Drug Development, Barr Laboratories, Inc.); **Dr. William C. Buhi** (Professor of Obstetrics and Gynecology; College of Medicine); **Dr. Charles H. Courtney III** (Professor of Pathobiology and Dean for Research and Graduate Studies; College of Veterinary Medicine); and **Dr. Roger Papke** (Assistant Professor, Department of Pharmacology and Therapeutics; College of Medicine).

The winners for this year's poster competition were:

*Graduate Student - winner*

**Lourdes Thornhill** Pharmacy Health Care \$200 cash award  
Title: "Aging, Health and Depression: Are Men and Women Different?"

*Post-Doctoral Fellow Division - winner*

**Jiong Shi** Pharmacodynamics/Center for Neurobiology of Aging \$100 cash award  
Title: "Can Estrogen Reverse the Effects of Hypoglycemia on the mRNA that Encodes  $\beta$ -amyloid Precursor Protein?"

*Pharmacy Student Division - winner*

**Mina Salafranca** Pharmacology and Therapeutics \$100 cash award  
Title: "Characterization of Rat Fractalkine Receptor CX3CR1 in Transfected CHO Cells".

At the end of the day Dr. Bell treated all of the winners in each of the oral and poster categories to a Chinese-style dinner at Szechuan Panda restaurant to recognize their accomplishments.



## Other ORGS Activities for FY 97/98

In addition to the two major functions coordinated by the ORGS (Post-baccalaureate Reception and the Annual Research Showcase and Awards Recognition Day) other activities were performed by ORGS personnel as outlined below.

### Committee Assignments:

The Associate Dean for Research and Graduate Studies served on various College, Health Science Center and University Committees throughout the academic year.

#### College Committees:

- **Executive Council.** This committee met every 3<sup>rd</sup> Thursday of each month throughout the year to discuss relevant issues related to the daily operations of the college and long-range planning. Chaired by the Dean of the College, this committee is integral to assisting the Dean in making decisions on major initiatives in the college.
- **Graduate Studies Committee.** Please see **Graduate Education and Program Activities for FY 97/98; Graduate Studies Committee (GSC) Activities** for details and activities of this committee throughout the year.
- **New Building Committee.** This committee was established to make recommendations to the University Architects and Health Center Planning Office on both the design and utilization of space in the new Pharmacy building. This committee met twice in FY97/98 and was chaired by Mike Brodeur, Chief of Staff of the college. To get ideas on the size and scope of the new building, the Associate Dean of Research and Graduate Studies, traveled in late January 1998 with Mike Brodeur and Dr. Michael McKenzie to the Texas Tech University College of Pharmacy in Amarillo Texas to visit their new College of Pharmacy building. The team, along with architects from Florida met with architects and college officials from Texas Tech to “walk through” and view the educational technology and research facilities of the new building.
- **Curriculum Coordinating Team.** This committee was established as a result of the AACCP Institute for Pedagogical and Curricular Change conference in Leesburg, VA. The specific charge of this committee is to help facilitate the implementation of the new curriculum in the COP. This committee met on several occasions to review and make recommendations on goals, abilities based outcomes and assessment strategies for each of the courses in the first year of the new curriculum.

#### Health Science Center (HSC) Committees:

- **HSC Research Dean’s Group.** This committee met the first Wednesday of each month throughout the year to discuss relevant issues related to both basic and clinical research within the HSC and University.
- **Integrated Advance Information management Systems (IAIMS) Committee.** This committee was chaired by Dr. Robert Wears of Jacksonville and met five times during the months of January to April, 1998. The committee was convened to help develop Health Center-wide strategies towards health science information and knowledge related to research.

- **University of Florida Brain Institute (UFBI) Committee Faculty Advisory Committee for Computing and Information Technology (FACCIT).** This committee was chaired by Dr. William Luttge, Director of UFBI and met eight times throughout the year. The primary mission of this committee was to review and advise the director of the UFBI on Computing planning, operation, emphasis and purchases for both Research and Instructional programs in the new UFBI to make it a state-of-the-art facility.

#### University Committees:

- **Council of Graduate Deans.** This committee met twice during the academic year and is entrusted with making recommendations on major initiatives related to graduate education. This committee is chaired by Dr. Karen Holbrook, Vice President for Research and Dean of the Graduate School. Policy issues considered during FY 97/98 were fund raising for ORTGE, graduate student recruitment, and electronic application process for graduate admissions.
- **University of Florida Community Campaign Steering Committee.** This committee, chaired by Dr. Rod McDavis, Dean of the College of Education is involved in coordinating activities associated with University's component of the annual United Way Campaign. Both the Associate Dean and Program Assistant for the Office of Research and Graduate Studies served on this committee. Within the Health Center and COP the Associate Dean and Program Assistant also served as the faculty and staff coordinators for the COP's effort for this campaign. The duties included selecting departmental assistants as well as making sure information was distributed properly to all COP personnel.

#### Conferences Attended Related to ORGS activity:

- **COP National Advisory Board.** The Associate Dean attended both the Fall 97 (October) and Spring 98 (March) National Advisory Board Meeting.

#### Other Activities Coordinated:

- **AAPS Visiting Scientist Program.** The Visiting Scientist Program sponsored by the American Association of Pharmaceutical Scientists, is designed to expose both undergraduate and graduate students to research and research careers in the pharmaceutical sciences and pharmaceutical industry. It is an avenue by which Colleges of Pharmacy can link with the pharmaceutical manufactures and exchange ideas, concerns and future directions of pharmaceutical research.
- **GLP/GMP Workshop.** The Research and Graduate Studies coordinated a workshop concerning Good Laboratory/Good Manufacturing Practices for the University of Florida. Ms. Evelyn Kiraly, Associate Director, R&D Quality Assurance, Boehringer Ingelheim, Inc. presented this two-hour seminar on December 9<sup>th</sup>, 1997 to approximately 60-70 people from all across the University of Florida.

## **Appendices**

**Appendix A:** Complete listing of extramural support for FY 97/98 by department and faculty member.

**Appendix B:** Applicant letter from the ORGS.

**Appendix C:** Program flyer for the 10<sup>th</sup> Annual Research Showcase and Awards Recognition Day.