

1996/97 Annual Report for



College of Pharmacy

University of Florida

Office of Research and Graduate Studies FY 96/97 Staff :

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Table of Contents

SECTION	PAGE
Introduction	1
Graduate Education and Program Activities for FY 96/97.	3
Graduate programs in the College (overview).....	3
Graduate Studies Committee (GSC) Activities.....	3
College of Pharmacy Graduate Student Organization.	4
Graduate Student, Post-doctoral Fellow and Visiting Scholar Demographics.	4
Graduate Student Recruitment Activities.	7
Graduate Students Graduation Activities.....	9
Graduate Student Funding and Awards.	11
Graduate Minority Activities.	15
Research Activities in the College of Pharmacy for FY 96/97.	16
Grant and Contract Efforts and Funding.....	16
Undergraduate Student Research Activities.	19
US-THAI Consortium Activities FY 96/97.	21
Grant and Contract Efforts and Funding.....	21
Summary of 1996/97 US-THAI Consortium Meeting in Phuket.	21
Thai Students in the College of Pharmacy.....	23
UF Faculty visiting Thailand.	24
Thai faculty visiting UF College of Pharmacy.	24
ORGS Coordinated Events for the COP - FY 96/97.	26
Post-baccalaureate Reception.	26
Annual Research Showcase and Awards Recognition Day.....	26
Other ORGS Activities for FY 96/97.	29
Committee Assignments.	29
Conferences Attended related to ORGS Activity.	30
Other Activities Coordinated.....	31
Appendices	32
A= Letter to Graduate Applicants.....	33
B= 10 th Annual Research Showcase and Awards Recognition Day Booklet.	34

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, Associate Professor in Pharmacodynamics is the Acting Associate Dean for Research and Graduate Studies. Dr. Millard accepted this role in January, 1995 and 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 96/97**; **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 96/97**).

The Associate Dean for Research and Graduate Studies is assisted by a Program Assistant in the ORGS (see **Figure 1**). During FY 96/97 the ORGS Program Assistant was Ms. Robin Harris. 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 Robin's performance this year, Robin handled the interaction with graduate students and university personnel in the ORTGE very professional and thorough. Her organization and planning of the two major COP functions coordinated by the ORGS was very well. However, Robin did not perform very well in her organizing and maintenance of the files within the ORGS, and as such, some information in the ORGS has been misplaced, lost and not handled properly. Robin resigned from her position in June, 1997. Ms. Marlene Hughes assumed the ORGS Program Assistant's role in July, 1997.

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 96/97.

Graduate Education and Program Activities for FY 96/97

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 was 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 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 96/97 were:

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

The GSC met eight times throughout FY96/97. Issues that were deliberated by the GSC in FY 96/97 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.
- establishment of guidelines for the Florida Legislative Award Scholarships for student recruitment.
- establishment of COP Graduate Faculty/Course Evaluations.
- establishment of the use of College Incentive Fund monies within the College.
- 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) was resurrected two years ago by the Associate Dean for Research and Graduate Studies as 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 96/97 **Ms. Helen (Beth) Taylor** (Medicinal Chemistry) served as president of the organization, while **Ms. Pattie Green** (Pharmacodynamics) 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. During FY 96/97 the GSO raised two major issues: problems with on-line course registration and establishment of examples of proper abstracts (size and format) selected as finalists for the oral presentations in the Annual Research Showcase and Awards Recognition Day. Both issues were resolved during the year.

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**. Sixty six graduate students were engaged in studies leading to the Ph.D. (62) or M.S. (4) degree. During FY 96/97 the COP graduated 9 students (6 Ph.D. and 3 M.S. students, see below: [Graduate Student Graduation Activities](#)) and accepted 12 new students into one of the COP Graduate Programs (see below: [Graduate Student Recruitment Activities](#)). Unfortunately, the COP also had one student leave the graduate program during FY 96/97.

Table 2 outlines the overall demographics of the graduate student population within the COP for FY 96/97. Overall there was a 2:1 ratio of males to females while the number of US/Foreign students were about equal. US minority students comprised 3.4% of the COP graduate student population. 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 (17-20 students/unit).

GPA and graduate program entrance test scores for the COP students are shown in **Table 4**. As an indication that the COP is making every effort to improve the quality of their graduate students, the GPA and graduate program entrance exam scores were higher in the entering class for 96/97 when compared to all COP graduate students.

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**. The Department of Pharmaceutics and Center for Drug Discovery supported the bulk of the post doctoral fellows and visiting scientists in FY 96/97.

Table 1: FY 96/97 Graduate Students in the COP

Department/Center	Student Name	Date Entered	Exp. Grad. Date	Degree Sought	Mentor
Medicinal Chemistry	Sean Boyle**	Aug-91	May-97	Ph.D.	James
	Micheal Branham	Jun-95	Jun-99	Ph.D.	Tebbett
	Rachel Cornett	Aug-95	Aug-99	Ph.D.	James
	Richard Davies	Aug-87	Dec-97	Ph.D.	Rao
	Qiao-Qing Di	Aug-93	Dec-97	Ph.D.	Schulman
	Matthew Dellavecchia*	Jan-97	May-01	Ph.D.	Bergeron
	Yang Feng**	Aug-92	May-96	Ph.D.	Bergeron
	James Johnson	Aug-93	Dec-97	Ph.D.	Rao
	John Juchum	Jan-94	May-98	Ph.D.	Rao
	Jeffrey Nowacki	Aug-95	Dec-97	M.S.	Bergeron
	Ravi Orugunty	Aug-92	Dec-97	Ph.D.	Rao
	William Roberts*	Aug-96	Aug-00	Ph.D.	Sloan
	Ningya Shi	Jan-95	May-99	Ph.D.	Wielbo
	Donald Sikazwe**	Aug-93	May-96	M.S.	James
	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
	Zeen Tong**	Aug-92	Aug-96	Ph.D.	James
	Lucas Utley*	Aug-96	Aug-00	Ph.D.	Tebbett
	Mei Guo Xin	Jan-95	May-99	Ph.D.	Bergeron
Pharmaceutics/ Center for Drug Discovery	Suliman Al-Fayoumi	Aug-94	Aug-98	Ph.D	Hochhaus
	Saleh Al-Sawayeh**	Aug-91	May-97	Ph.D	Tebbett/Brazeau
	Annamaria Buchwald*	Aug-96	Aug-00	Ph.D	Bodor
	Peter Buchwald	Aug-92	Dec-97	Ph.D	Bodor
	Teresa Dalla Costa**	Aug-92	Aug-96	Ph.D	Derendorf
	Amparo de la Pena*	Aug-96	Aug-00	Ph.D	Derendorf
	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
	Yang Suk Lee**	Aug-91	Dec-96	M.S.	Bodor
	Earvin Liang	Aug-94	Aug-98	Ph.D	Hughes
	Timothy H. Lim	Aug-90	Aug-97	Ph.D	Bodor
	Scott Poxon	Aug-94	Aug-98	Ph.D	Hughes
	Jeffrey Stark	May-94	May-98	Ph.D	Prokai
	Sandra Suarez	Jan-94	Aug-97	Ph.D	Hochhaus
	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 program in FY 96/97.

** students who graduated in FY 96/97.

Table 1 (con't): FY 96/97 Graduate Students in the COP

Department/Center	Student Name	Date Entered	Exp. Grad. Date	Degree Sought	Mentor
Pharmacodynamics/Center Neurobiology of Aging	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
	Eun-Kyung Lee**	Aug-92	Dec-96	Ph.D	Keller-Wood
	Alok Pachori*	Aug-96	Aug-00	Ph.D	Dawson
	Robin Martin	Aug-95	Aug-99	Ph.D	Millard
	Darren Roesch	Aug-93	May-98	Ph.D	Keller-Wood
	Jiong Shi	Jan-94	Aug-97	Ph.D	Simpkins
Pharmacy Health Care/ Dubow Center for Pharmaceutical Care	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	Kimberlin
	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
	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
	Steven Kolega**	Aug-93	Dec-96	M.S.	Segal
	Neil MacKinnon	Aug-95	Aug-99	Ph.D	Hepler
	Sam Moolasarn	Jan-96	Apr-98	Ph.D	Ried
	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	

* new students entering a COP program in FY 96/97.

** students who graduated in FY 96/97.

TABLE 2: Graduate Student Demographics - FY 96/97

	GENDER		CITIZENSHIP				MINORITY					
	#	%	United States		Foreign		Black	%	Hispanic	%	Asian	%
TOTAL	66		33	50.0%	33	50.0%	1	1.5%	0	0.0%	1	1.5%
Male	42	63.6%	24	72.7%	18	56.3%	1		0		1	
Female	24	36.4%	9	27.3%	15	45.5%	0		0		0	

TABLE 3: Graduate Students, Postdoctoral Fellows and Visiting Scholars - FY 96/97

Department/Center	Graduate Students	Postdoctoral Fellows	Visiting Scholars
Medicinal Chemistry	20	8	1
Pharmaceutics/CDD	18	12	3
Pharmacodynamics/CNA	11	2	1
Pharmacy Health Care/DFCPC	17	1	0
Pharmacy Practice	No Graduate Program	3	0
COLLEGE TOTAL	66	26	5

CDD = Center for Drug Discovery, CNA = Center for the Neurobiology of Aging.
DFCPC = Dubow 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		
COLLEGE TOTAL (66)	3.36	519	682	1201	596	49
96/97 Entering Class (12)	3.49	572	684	1255	615	49

numbers in parenthesis denote student population

Graduate Student Recruitment Activities:

As mentioned previously, recruitment of graduate students was decentralized in 1991 and placed in the hands of the individual departments. As such departments were responsible for their own recruitment brochures and strategies for graduate student recruitment.

Whenever possible, requests for application materials that came through the ORGS were sent to the departments. However, when applicants did not specify a graduate specialty in their letter of inquiry the ORGS handled these requests. In the past, the ORGS would send application materials from all four graduate specialties to these students. These informational packets were bulky and extremely expensive to send out.

To streamline the process, a letter (see **Appendix A**) describing the individual graduate programs/specialties and identifying the graduate coordinators of each graduate specialty was generated and sent to each applicant. In this letter applicants were also encouraged to access information from the COP home page on the World Wide Web (WWW). Accurate records of how many letters of this type were sent out from the ORGS were not kept for FY 96/97. However, it is estimated that 150 to 200 letters were sent over the year.

Graduate student application activity for FY 96/97 from each of the Departments is illustrated in **Table 6**. Of the 187 completed applications received by the departments only 26 or 14% of the applicants were accepted. However, the one troubling note was that only 60% of the students accepted by the various departments eventually entered a COP graduate program in FY96/97.

Table 5: FY 9697 Postdoctoral Fellows and Visiting Scholars

Department/Center	Name	Title	Preceptor
Medicinal Chemistry	James McManis	PD	Bergeron
	Jorge Bussenius	PD	Bergeron
	Ralf Mueller	PD	Bergeron
	William Weimer	PD	Bergeron
	Quianhong Wu	PD	Bergeron
	Guo Yao	PD	Bergeron
	Bernard Gadagbui	PD	James
	Chung-Li (Jason) Li	PD	James
	Olga Malakhova	VS	Wielbo
Pharmaceutics/ Center for Drug Discovery	Attila Jahaz	PD	Bodor
	Dolce Barros	PD	Bodor
	Sung-Hwa Yoon	PD	Bodor
	Jiaxiang Wu	PD	Bodor
	Chu-kuok Wong	PD	Bodor
	Katalin Prokai	PD	Bodor
	Vika Chandra Dhawan	PD	Bodor
	Luis Bruno-Blanch	VS	Bodor
	Fu-Bao Ji	VS	Bodor
	Alevtina Zharikova	PD	Prokai
	Andreas Kovar	PD	Derendorf
	Bernd Meibohm	PD	Derendorf
	Beate Rohde	PD	Derendorf
	Ulrike Graefe	VS	Derendorf
	Preeti Ajamni	PD	Hughes
Pharmacodynamics/Center for Neurobiology of Aging	Gopal Rajakumar	PD	Simpkins
	Kiran Panickar	PD	Simpkins
	Guan Wei	VS	Simpkins
Pharmacy Health Care/Dubow Center for Pharmaceutical Care	Hanaa Salem	PD	Hepler
Pharmacy Practice	Jacintha Caufield	PD	Gums
	Jerry Smith	PD	Gums
	Jim Lewis	PD	Gums

Table 6: Departmental Graduate Student Recruitment Activity - FY 96/97

Department	# requests sent out	# applications processed	# applications accepted	% accepted	# entered	% entered
Medicinal Chemistry	296	84	12	14%	3	25%
Pharmaceutics	138	31	5	16%	4	80%
Pharmacodynamics	159	37	6	16%	2	33%
Pharmacy Health Care	110	35	3	9%	3	100%
COLLEGE TOTAL	703	187	26	14%	12	60%

Graduate Student Graduation Activities:

Over the 96/97 academic year the COP had **nine** students graduate with either the Ph.D (6) or M.S. (3) degree. Each of the departmental graduate specialties was represented in the 96/97 graduating class. The graduates according to degree for FY 96/97 were:

Ph.D. in Pharmaceutical Science degrees conferred for FY 96/97.

August 1996 (Summer Commencement):

- Name:** Dr. Teresa Dalla Costa
Dissertation Title: *Pharmacokinetic/Pharmacodynamic Modeling for Piperacillin/Tazobactam Combinations.*
Faculty Mentor: Dr. Hartmut Derendorf, Professor
Department: Pharmaceutics
Previous Degrees: B.S., Univ. Fed. Rio Grande; M.S. in Pharmacy, Univ. Fed. Rio Grande.

Dr. Dalla Costa has assumed an Assistant Professor position on the Faculty of Pharmacy at the University of Rio Grande Do Sul in Porto Alegre, Brazil.

- Name:** Dr. Zeen Tong
Dissertation Title: *Xenobiotic-Metabolizing Enzymes and the Intestinal Bioavailability and Biotransformation of Benzo(A)Pyrene Phenols and Conjugates in the Channel Catfish, *Ictalurus Punctatus*.*
Faculty Mentor: Dr. Margaret James, Professor
Department: Medicinal Chemistry
Previous Degrees: B.S. in Pharmacy, China Pharmaceutical; M.S. in Pharmacy, China Pharmaceutical.

Since his graduation Dr. Tong has assumed a postdoctoral position at the University of Rochester College of Medicine in Rochester, NY. His appointment is in the Department of Pharmacology under the direction of Dr. M.W. Anders.

3. **Name:** Dr. Yang Feng
Dissertation Title: *Structure and Activity Studies of Polyamine Analogues as Antineoplastics.*
Faculty Mentors: Dr. Raymond Bergeron, Graduate Research Professor.
Department: Medicinal Chemistry
Previous Degrees: B.S. Beijing Medical University, Beijing, People's Republic of China.

Dr. Feng has assumed a postdoctoral position at Yale University, College of Medicine in the Department of Pharmacology. Dr. Feng is working under the mentorship of Dr. Karen Anderson.

December 1996 (Fall Commencement):

4. **Name:** Dr. Eun-Kyung Lee
Dissertation Title: *The Physiological effects of Corticosteroids on Blood Pressure in Sheep.*
Faculty Mentor: Dr. Maureen Keller-Wood, Associate Professor
Department: Pharmacodynamics
Previous Degrees: B.S. in Pharmacy, Ewha Woman's University.

Since her graduation Dr. Lee has entered the Working Professional PharmD Program at the University of Florida.

May 1997 (Spring Commencement):

5. **Name:** Dr. Saleh Al-Suwayeh
Dissertation Title: *Development of an Intramuscular Liposomal Formulation for the Antipsychotic Drug Loxapine.*
Faculty Mentors: Dr. Ian Tebbett, Associate Professor & Dr. Gayle Brazeau, Associate Professor.
Department: Pharmaceutics
Previous Degrees: B.S. in Pharmaceutical Sciences, King Saud University; M.S. in Pharmaceutical Sciences, University of Mississippi.

Dr. Al-Suwayeh has returned to Saudi Arabia where he is currently an Associate Professor of Pharmaceutics at King Saud University.

6. **Name:** Dr. Sean Michael Boyle
Dissertation Title: *The Structure and Function of Cytochrome P450 in the Hepatopancreas of the Florida Spiny Lobster, Panulirus Argus.*
Faculty Mentors: Dr. Margaret James, Professor.
Department: Medicinal Chemistry
Previous Degrees: B.S. in Zoology, University of Florida.

Dr. Boyle has assumed a postdoctoral position at the University of Washington School of Public Health in the Department of Toxicology. He is working under the direction of Dr. C. Omiecinoski .

M.S. in Pharmacy Degrees conferred for FY 96/97.

August 1996 (Summer Commencement):

- Name:** Mr. Donald Sikazwe
Thesis Title: *Glutathione S-Transferases (GSTs) in Intestinal and Hepatic Cytosol from Channel Catfish.*
Faculty Mentor: Dr. Margaret James, Professor
Department: Medicinal Chemistry
Previous Degrees: B.S., Edward Waters College.

Mr. Sikazwe is now working as a Chemist for the State of Florida, Division Environmental Science and Engineering. He is located in West Palm Beach, FL.

December 1996 (Fall Commencement):

- Name:** Ms. Yang Suk Lee
Thesis Title: *Design, Synthesis and Evaluation of a New Class of Soft Corticosteroids as Anti-Inflammatory Agents.*
Faculty Mentor: Dr. Nicholas Bodor, Graduate Research Professor
Department: Pharmaceutics/Center for Drug Discovery
Previous Degrees: B.S. in Chemistry, Seoul National University; M.S. in Organic Chemistry, Seoul National University.

Since her degree Ms. Lee entered the Ph.D. Program in Pharmaceutics/Center for Drug Discovery. Ms. Lee subsequently left the program to return to her home country of Korea. Her employment status is unknown at present.

- Name:** Mr. Steven Kolega
Thesis Title: *Adverse Drug Event Reporting: The Reliability of Judgments Using Food and Drug Administration Criteria.*
Faculty Mentors: Dr. Richard Segal, Professor.
Department: Pharmacy Health Care
Previous Degrees: B.S. in Pharmacy, University of Zagreb.

Mr. Kolega is currently working as a Pharmacist for Eckerd Drugs in Belleview, FL .

Graduate Student Funding and Awards:

The COP shared the major brunt of the funding of graduate student stipends for FY 96/97. 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 \$14,059 with an average overall stipend of \$11,928 for all graduate students.

Ten graduate student fellowship proposals for a total of \$977,740 were submitted by faculty to extramural sources. These proposals included a multi-year training grant to the National Institutes of General Medical Sciences by Dr. Hartmut Derendorf, Professor of Pharmaceutics. Dr. Derendorf's training grant was earmarked for training of minority students in drug delivery, pharmacokinetics and pharmacodynamics.

However only two proposals received funding during the year. Dr. Jeff Hughes worked with Mr. Scott Poxson to obtain a \$15,000 grant from The PDA Foundation for Pharmaceutical Science to support his work: "Formulation of stable gene delivery systems." The grant included stipend, tuition and research supply support.

Mr. Richard Faris received a \$8,323 predoctoral fellowship from the American Foundation for Pharmaceutical Education (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. Richard Segal, Professor and Chairman, Department of Pharmacy Health Care.

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 96/97. However, the University of Florida has committed to Michael an additional two years of support which includes support identical to that outlined in the McKnight Fellowship.

During 1996/97 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 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**), and also 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 students 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 \$2,000 per year for a maximum of 3 years (\$6,000 total award). A statistical summary of the **Grinter** Program in the COP is illustrated in **Table 7**. Overall we have had a 76% acceptance of **Grinter** Scholarships by prospective students in which 36% 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.

TABLE 7: Statistical Summary of Grinter Program - 1998 to present.

Statistic	Overall	%	96/97 class
Total number offered	37		8
Total number accepted	28	76%	5
Total number graduated	10	36%	
Total Number still enrolled: past & present	19	68%	
Number of active awardees - FY 96/97	10	53%	5
GPA	3.55		3.51
GRE (Verbal + Quant)	1269		1324
TOEFL	608		622

In FY96/97 the COP offered 8 *Grinter* Fellowships, of which 5 accepted (63%). The GPA, GRE and TOEFL scores of the 96/97 *Grinter* Fellows compares favorably with the overall GPA and test score averages (Table 7). The recipients of *Grinter* awards in 96/97 are listed below:

Mr. Richard Faris	Pharmacy Health Care
Ms. Annamarie Buchwald	Pharmaceutics (Center for Drug Discovery)
Mr. William Roberts	Medicinal Chemistry
Mr. Matthew Dellavecchia	Medicinal Chemistry
Mr. Fuxing Tang	Pharmaceutics

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 96/97. 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 will enter the COP as *Florida Legislative* Awardees. They are:

Ms. Tranecia Clarke	Pharmacodynamics
Mr. Henry Young	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 \$3000 per year for up to 3 years. *Lippman* Awardees during FY 96/97 were:

Ms. Barbel Eppler-Mossler	Pharmacodynamics
Mr. Bruce Jung	Pharmacodynamics
Mr. David Nau	Pharmacy Health Care

College of Pharmacy 10th 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 96/97; Annual Research Showcase and Awards Recognition Day**, section of this report.

Third Annual Research Day at UF Health Science Center/Jacksonville:

On May 12th 1997 the Jacksonville Research Day was held on the Jacksonville campus in which both oral (9) and poster (28) presentations were showcased. **Mr. Peter Buchwald**, a graduate student in the Center for Drug Discovery under the direction of Dr. Nicholas Bodor, Graduate Research Professor, won first prize in the graduate student category of the poster division for his work entitled: “*Computerized, Molecular Size based Approach to Estimate Partition Properties: Applications for Peptides.*” For his efforts Peter received a \$300 cash award.

UF Graduate Student Forum Awards:

At the 1997 Graduate Student Forum of the University of Florida held on March 26, 1997 the College of Pharmacy had two graduate students win prizes for poster presentations during this one day competition. **Ms. Robin Martin** won first prize in the Medical and Sports Sciences poster session presenting her work entitled “*Peripheral but not central administration of Losartan blocks angiotensin II-induced pressor response in male rats.*” with D.M. Wackerly, L.A. Ramos and M.J. Katovich as co-authors. **Mr. Bruce Jung** won third place in the Medical and Sports Sciences poster competition with his poster entitled “*Endogenous GABA release from striatal slices of cocaine sensitized rats.*” Co-authors of Bruce’s poster were R. Dawson, S.A. Sealy, P.A. Walker and J. Peris.

International Student Academic Awards:

At the International Student Academic Awards Ceremonies held April 10th, 1997 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), **Mr. Chih-Wei Earvin Liang** (Pharmaceutics), **Mr. Jiong Shi** (Pharmacodynamics) and **Ms. Sandra Suarez** (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 also 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](#))

Minority Awards are highlighted in the COP by the success of **Mr. Michael Branham** with his McKnight Fellowship and RW Johnson PRI Grant (please see above: [Graduate Student Funding and Awards](#)).

As an attempt to further increase funding of minority graduate students in the COP and university, Dr. Hartmut Derendorf, submitted a minority training grant entitled "***Training for Minority Students in Drug Delivery, Pharmacokinetics and Pharmacodynamics***" to the National Institute of General Medical Sciences. This was a 5-year grant requesting \$889,281 in total support.

Research Activities in the College of Pharmacy for FY 1996/97

Grant and Contract Efforts and Funding:

Pharmaceutical Research continues to be a major effort within the College of Pharmacy at the University of Florida. However, the College has experienced a leveling off and, even a small reduction in funding from previous years. This is most likely tied to an overall reduction in research support both nationwide and internationally. According to the American Association of Colleges of Pharmacy (AACP) 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 7th place in 1995 to 13th place in 1996 (Table 8). This placement is based solely on Fiscal year NIH funding (October to September of a given year). For FY 1996 the College of Pharmacy received \$2,591,094 of extramural NIH support; this is down 23% from \$3,384,260 in FY 1995.

TABLE 8: AACP Statistics for NIH Funding					
NIH Fiscal Year	NIH Support	Rank	FTE Ph.D.s	NIH Support/ FTE- Ph.D.	Rank
1995	\$3,384,260	7	33	\$102,553	13
1996	\$2,591,094	13	33	\$78,518	16

Nevertheless, our faculty continue to be productive and are making efforts to obtain more extramural support for their individual research efforts. During the FY 96/97 the ORGS processed a total of 76 extramural grant or contract applications from the five Departments and our Administrative Office (Table 9) for a total of \$26,417,211 in **new** grant dollars.

As seen in Table 9, the majority of new proposals within the COP are proposals in which the Principal Investigators (PI) are faculty within the COP. It is likely that, as funding continues to be tight, many of the faculty will be preparing collaborative proposals with faculty in other colleges both within and outside UF.

Table 10 shows total **NEW** external research dollars brought into the College over the last five academic years (from June to July of a given year). Extramural **NEW** monies established solely for research showed a steady gain and reached a peak in FY 1995/96 with \$4,539,237 total research dollars. However, in FY 96/97 (**bolded numbers**) our research funding dropped by 12% to \$3,978,780. The decline in total research dollars was associated with a 13% reduction in the number of funded research proposals (from 94 in FY 95/96 to 82 in FY 96/97). Departmental comparisons shows that Medicinal Chemistry has the majority of **NEW** research dollars within the COP (40%). However, the number of active awards in within each Department is relatively evenly distributed, indicating that all Departments are active in their research programs.

TOTAL EXTRAMURAL FUNDING into the COP is illustrated in Table 11. Total extramural support includes not only **RESEARCH** funds (also found in Table 10) 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. While we had a downturn in new research dollars in FY 96/97, **ADMINISTRATIVE** funds showed an average 9% yearly increase over the five year period. When *total extramural funding* is considered (Table 11), the COP showed a 6% drop in FY 96/97 to \$6,332,574 from a high in FY 95/96 of \$6,742,359.

TABLE 9: Proposal Processing Summary - FY 96/97

Dept.	Inside the College	Outside the College	Total
College Total			
# proposals	66	10	76
Total Amount	\$15,848,461	\$10,568,750	\$26,417,211
Administration			
# proposals	1	0	1
Total Amount	\$57,000	\$0	\$57,000
Medicinal Chemistry			
# proposals	17	2	19
Total Amount	\$7,937,161	\$313,166	\$8,250,327
Pharmaceutics			
# proposals	19	2	21
Total Amount	\$2,234,716	\$5,546,406	\$7,781,122
Pharmacodynamics			
# proposals	16	4	20
Total Amount	\$4,746,811	\$1,359,917	\$6,106,728
Pharmacy Health Care			
# proposals	4	0	4
Total Amount	\$615,345	\$0	\$615,345
Pharmacy Practice			
# proposals	9	2	11
Total Amount	\$257,428	\$3,349,261	\$3,606,689

Inside the College: PI was a COP faculty member.

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

TABLE 10: Extramural Research Dollars - FY92/93 to FY 96/97

Faculty	92/93	93/94	94/95	95/96	96/97	Avg. 92/97	% of total
COLLEGE TOTAL	\$3,922,891	\$4,164,462	\$4,507,741	\$4,539,237	\$3,978,780	\$4,222,622	100.0%
IDC	\$743,405	\$824,702	\$944,757	\$918,790	\$750,774	\$836,486	100.0%
# grants	116	98	92	94	82	96	
%IDC	23.4%	24.7%	26.5%	25.4%	23.3%	24.6%	
Medicinal Chemistry	\$1,344,126	\$1,424,033	\$2,040,967	\$1,632,649	\$1,999,956	\$1,688,346	40.0%
IDC	\$263,577	\$278,501	\$456,584	\$353,362	\$388,870	\$348,179	41.6%
# grants	15	11	15	18	24	17	
%IDC	24.4%	24.3%	28.8%	27.6%	24.1%	25.9%	
Pharmaceutics	\$635,913	\$1,339,188	\$1,051,375	\$1,411,202	\$963,616	\$1,080,259	25.6%
IDC	\$143,967	\$292,798	\$225,972	\$329,182	\$150,612	\$228,506	27.3%
# grants	38	32	32	33	20	31	
%IDC	29.3%	28.0%	27.4%	30.4%	18.5%	26.7%	
Pharmacodynamics	\$1,143,963	\$942,323	\$956,625	\$781,916	\$604,835	\$885,932	21.0%
IDC	\$272,555	\$227,700	\$211,377	\$158,358	\$165,505	\$207,099	24.8%
# grants	17	25	18	11	13	17	
%IDC	31.3%	31.9%	28.4%	25.4%	37.7%	30.9%	
Pharmacy Health Care	\$144,374	\$187,105	\$200,399	\$346,640	\$77,820	\$191,268	4.5%
IDC	\$16,095	\$7,514	\$23,944	\$43,500	\$13,078	\$20,826	2.5%
# grants	14	10	10	9	5	10	
%IDC	12.5%	4.2%	13.6%	14.3%	20.2%	13.0%	
Pharmacy Practice	\$654,515	\$271,813	\$258,375	\$366,830	\$332,553	\$376,817	8.9%
IDC	\$47,211	\$18,189	\$26,880	\$34,388	\$32,709	\$31,875	3.8%
# grants	32	20	17	23	20	22	
%IDC	7.8%	7.2%	11.6%	10.3%	10.9%	9.6%	

TABLE 11: Total Extramural Support - FY 92/93 to FY 96/97

Dept.	92/93	93/94	94/95	95/96	96/97	Average 92/97
COLLEGE TOTAL	\$5,581,549	\$6,008,900	\$6,573,494	\$6,742,359	\$6,332,574	\$6,247,775
IDC	\$748,435	\$824,702	\$947,383	\$918,894	\$750,774	\$838,038
# grants	138	108	105	103	91	109
%IDC	15.5%	15.9%	16.8%	15.8%	13.5%	15.5%
RESEARCH	\$3,922,891	\$4,164,462	\$4,507,741	\$4,539,237	\$3,978,780	\$4,222,622
IDC	\$743,405	\$824,702	\$944,757	\$918,790	\$750,774	\$836,486
# grants	116	98	92	94	82	96
%IDC	23.4%	24.7%	26.5%	25.4%	23.3%	24.6%
ADMINISTRATION	\$1,658,658	\$1,844,438	\$2,065,753	\$2,203,122	\$2,353,794	\$2,025,153
IDC	\$5,030	\$0	\$2,626	\$104	\$0	\$1,552
# grants	22	10	13	9	9	13
%IDC	0.3%	0.0%	0.1%	0.0%	0.0%	0.1%

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 **8** undergraduate professional students secure extramural stipend and research supply funds from **4** different sources.

For FY 96/97 undergraduate professional students in the UF College of Pharmacy received three of the seven **AACP-Merck Research Scholarships for Professional Degree Pharmacy Students** given nationally. This prestigious program is coordinated by the AACP through a grant from the Merck Company Foundation. Individual recipients receive a \$6,000 stipend and a \$1,000 supply allowance to conduct their research activities. The students are required to present their research findings at the annual AACP meeting in which the AACP picks up travel, registration and housing costs for each awardee. The AACP recipients for this year were:

1. **Ms. Stephanie Brown**, who worked with Dr. Donna Wielbo, Assistant Professor in Medicinal Chemistry, on her project entitled: "**Liposome Encapsulated Antisense Inhibition of Hypertension in Young Spontaneously Hypertensive Rats.**"
2. **Mr. Daniel Kerr**, who was mentored by Dr. Ken Sloan, Professor in Medicinal Chemistry, and worked on his project entitled: "**Evaluation of Acyloxymethyl Promoieties to Enhance Topical Delivery.**"
3. **Mr. David Wackerly**, who worked with Dr. Michael Katovich, Professor in Pharmacodynamics, on his proposal entitled: "**An Evaluation of the Central Renin-Angiotensin System in Fructose-Induced Hypertension and Insulin Resistance.**"

We also had two undergraduate professional students receive \$5,000 fellowships from the Pharmaceutical Research and Manufacturers of America (PRMA) Foundation. These highly competitive fellowships provide a \$4,000 stipend to the student and a \$1,000 allotment for research support. The recipients this year were:

1. **Ms. Maria Boneta** who worked with Dr. Jeff Hughes, Assistant Professor in Pharmaceutics on a project entitled: “*Characterization of pH Sensitive Surfactants and their Use in Non-viral Gene Delivery.*”
2. **Ms. Kari Svetic** collaborated with Dr. Gayle Brazeau, Associate Professor in Pharmaceutics, on the proposal entitled: “*Myotoxicity of Pharmaceutically Relevant Buffers.*”

Four undergraduate students also received summer research support (3 month) in the form of a \$2,085 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. David Wackerly** and **Ms. Gina Lumbard** worked with Dr. Michael Katovich while **Ms. Stephanie Brown** and **Ms. Lisa Boothby** worked under the direction of Dr. Donna Wielbo.

As a part of the 1996/97 Short-term training for Students in Health Professional Schools program, both **Stephanie Brown** and **David Wackerly** participated in the 1996/97 Medical Student Research Day and gave poster presentations. They both received a \$250 check for their efforts from the COP.

Ms. Gital Kadoch also received a \$4,000 UF-Space Program and Consortium Award. This award program is a consortium with NASA that is designed to expose UF undergraduate students to space-related research. Ms Kadoch worked with both Dr. Jeff Hughes and Dr. Hartmut Derendorf, Professor in Pharmaceutics on a project entitled: “Development of an *In Vitro* Model to Study the Effect of Gravity on the Function of Antibiotics.” This grant afforded Ms Kadoch a \$2,000 stipend and a \$2,000 allotment for her research project.

Ms. Toni Hawk, working with Dr. Jim Simpkins, Professor of Pharmacodynamics and Chair of Pharmaceutics received \$100 for winning the undergraduate poster category of the college’s 10th Annual Research and Awards Recognition Day (please see **ORGS Coordinated Events for the COP - FY 96/97**, **Annual Research Showcase and Awards Recognition Day**, for details).

Faculty-student research did not stop with students in the College of Pharmacy in FY 96/97. **Mr. Omid Rabbani**, a UF IDS student, worked with Dr. James Simpkins on a project entitled: “*The Neuroprotective Effects of Estrogen on Basal Forebrain Cholinergic Neurons.*” This project was supported by funds from the National Association for Aging Research. Mr. Rabbani received a \$500 stipend for this work.

Mr. Andrew Aronsohn, a student in Zoology, received a \$6,000 grant from the Florida Space Grant Consortium to study: “*The Development of Absorption Models for Space Travel.*” Dr. Jeff Hughes was his mentor on this project.

US-THAI Consortium Activities FY 96/97

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 (see current list below).

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, and this year (1996), in Phuket, Thailand.

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 1996/97 US-THAI Consortium Meeting in Phuket:

The initial meeting was held June 22 and the morning of June 23 in which all *ten* Thai colleges of Pharmacy were represented (Srinakharinwirot University will open its doors to pharmacy students this year). Eight of the ten US Pharmacy Schools attended the meeting.

Dr. Pavich Tongroach (Director of the Thai Ministry of University Affairs and President of Mahasarakham University) opened the meeting with a review of the Pharmacy profession in Thailand. Of note in his address was:

1. 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.
2. 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. Likely a major reason for the lack of pharmacists in community pharmacies.
3. Currently pharmacists are licensed immediately upon graduation from pharmacy school. This is likely to change within the next year or so as they are actively seeking an initial licensing exam prior to practice and a license renewal process... thus, the need for continuing education.

4. The country is committed to increasing the number of hospital pharmacists, an insurgence of clinical pharmacy and pharmaceutical care. Thus, a change in the education of the pharmacist is needed... *i.e.* the PharmD. Only one of the Thai colleges is actively involved in instituting a PharmD curriculum (Naresuan University) at the present time.

Dr. Sumon Sakolchai (Vice President of Khon Kaen University and past dean of its pharmacy School) then summarized what the US consortium could do to help pharmacy education in Thailand. Of note in Dr. Sakolchai's address was:

1. Thailand wants to increase their number of pharmacists from the current 10,000 to 25,500 by the year 2006.
2. They will increase the number of pharmacy schools to 13 by 1999.
3. They would like to increase the number of scholarship students sent to the states from 10 in 1997 to 31 by the year 2006. Total of 317 over 10 years.
4. They would like increase the number of "short-term visits" from 9 to 11 per year by 1999. Currently 9 Thai faculty travel to the US to engage in short term (3 month duration) training specialty courses. 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.
5. 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. All that would be required of US institutions would be to support the travel of the faculty member to and from Thailand... all other expenses would be paid by the Thai Consortium once the faculty arrives in Thailand.
6. The Thai Pharmacy profession is shifting from a product-oriented to a patient-oriented profession, thus the need for increased Clinical Pharmacy curriculum and the PharmD... they want to increase the number of total scholarship applicants to PharmD programs from the current 10% to around 36% of the total applicants).
7. Because of the need to increase clinical pharmacy and development of PharmD curriculums the Thai Consortium proposed to the US contingent that 528 preceptor training sites be opened in the US during the 10 year interval of 1997-2006 (approx. 50/year). The idea presented was for Thai faculty to travel to the US for a 2-3 month period to gain intensive training in some aspect of clinical pharmacy.
8. Seek whether there could be any mechanism by which Thai PharmDs (whether trained in the US, UK or Thailand) could do residency training and fellowships in the US.
9. Very brief discussion of an international graduate program whereby US faculty would come to Thailand to either teach a specialty course or engage in some collaborative research project with Thai faculty.

Dr. Charles (Chip) Rutledge of Purdue was asked to give the US perspective of the US-THAI consortium and to respond to the comments of Drs. Tongroach and Sakolchai. He did this very well, with some comments from the rest of the US delegates. He applauded the Thai Pharmacy profession (and their leaders) for their desire to go to a patient oriented profession as this was the true future of pharmacy. He did note some concerns however. Dr. Rutledge was somewhat bothered with the three fold increase in the number of scholarships/year from 10 to 31 over the next decade. He thought that this could be worked out though but may require expanding the number of US institutions involved in the consortium agreement. Chip was most concerned (as were most of the US delegates) with the idea of the 50 faculty/year traveling to the US to do preceptor training in various aspects of clinical pharmacy. He was most bothered with where we would put all the students and whether their English language skills would be sufficient to make the experience worthwhile to all parties. This was unanimously agreed to and supported by all US delegates. The Thai contingent was asked to really look at this request in more detail... *i.e.* the idea was tabled!

The meeting continued with a look a Pharmacy education in the US by Chip Rutledge, and then a presentation of problem based education by Dr. Janet Engle of University of Illinois - Chicago.

The US-THAI business meeting opened with a discussion on the exchange study program whereby each US delegate provided an update on the current Thai students that had applied and were engaged in advanced study at their respective institutions. A discussion of the application process ensued in which the relatively poor English language skills of the Thai applicants was thoroughly discussed... especially as it related to the clinical (PharmD) and Pharmacy Health Care (Ph.D.) degree programs. The need for coordination and timeliness of the application process was also discussed. The Thai deans all agreed to send all applications (complete) with fees and letter

stating that the student was a recipient of a scholarship from the Royal Thai Government. Expansion of the number of US schools involved in the consortium arrangement was mentioned, but each added US Pharmacy School would have to be evaluated and approved by the Thai colleges of pharmacy.

The business meeting closed with Dr. Ed Moreton (University of Maryland - Baltimore) talking about next year's consortium meeting. The meeting will be in Baltimore and he will be scheduling the meeting around the time of the AACP meeting so that the Thai Deans could attend both meetings. This ended the initial meeting of the US-THAI consortium.

The following day US delegates traveled to various regions of Thailand to visit respective Thai Pharmacy Schools. At Hat Yai in southern Thailand we visited Prince of Songkla University (PSU) School of Pharmacy and were graciously hosted by the Dean, Dr. Piti Trisdikoon and his staff. PSU Pharmacy School is 15 years old and is one of the smaller schools in Thailand. It has a five year program (2 years prepharmacy) with a class size of 55-60 students. There are 60 faculty in the college and it has approximately 145,000 square feet of space). Interestingly, they were just approved to have a new pharmacy building constructed!!! There is no graduate program at this time. The curriculum is heavily oriented to industrial pharmacy and physical pharmacy... but they are undergoing radical change to the more clinical, patient oriented curriculum. At PSU we met with both faculty and students and talked about our graduate and PharmD programs.

We then visited the PSU Pharmacy run by the College. The Thai pharmacists noted that they averaged 60-70 prescriptions/day. Noteworthy, was the relatively sparse formulary in the Pharmacy. They did have an area for patient counseling. Community pharmacies in Thailand are just that... pharmacies. Peripherals such as foods, cosmetics and the like are absent in the local pharmacy.

We then visited both Silpakorn (hosted by Dr. Sindhchai Keokitichai, Dean) and Mahidol (hosted by Drs. Chantra Shaipanich, Dean and Narong Sarisuta, Associate Dean) Colleges of Pharmacy on consecutive days. Like PSU both Silpakorn and Mahidol (5 year schools) were heavily oriented to industrial and physical pharmacy and pharmacognosy. There is an extravagant amount of space that each college had (225,000 sq. ft. at Silpakorn and Mahidol will have 325,000 sq. ft. after the new building is built). Again, like PSU, there was a notable number of inactive laboratories. Some active research was observed at Mahidol. Both Silpakorn and Mahidol have graduate programs (MS and Ph.D.) but Mahidol is much larger and extensive. Both schools had their own pharmacies similar to that at PSU... a large professional staff, modest prescription activity and very modest formulary. Both pharmacies had a designated area for patient counseling.

We then had an exit dinner and business meeting in which all aspects of the initial meeting in Phuket were revisited. The US delegates gave a very brief synopsis of each of their visits and the meeting adjourned.

Over the next few years we may have an increase in Thai applicants for both graduate and PharmD programs. It is anticipated that the PharmD will be highly sought after. The Thai deans are fully aware of our (US delegates) concern about the poor English skills. They understand that a minimum TOEFL and GRE must be met before students are accepted. To help there is a move in some Thai schools to go to teaching some courses in English. Currently most schools utilize texts in English, but lecture in Thai. The Associate Dean for Research and Graduate Studies is the designated coordinator of the US-THAI agreement, and as such, will receive all applications from the Thai deans. Upon receipt of the materials, he/she will monitor them and send them on to the appropriate people.

Thai Students in the College of Pharmacy:

Listed below (**Table 12**) are the current Thai students who have received Royal Thai scholarships from their government to study abroad for either their Ph.D. or PharmD. degrees. This year we accepted two students into our programs at UF. Mr. Moolasarn entered the Pharmacy Health Care Ph.D. program where he is being supervised by Dr. Doug Ried. Ms. Lucksiri was also accepted as our first Thai PharmD student.

TABLE 12: Thai Students in the College - FY 96/97

NAME	THAI PHARMACY COLLEGE	DATE ENTERED
Pharmacy Health Care Ph.D Program:		
1. Ms. Ratanaporn Awiphan (Ju)	Chiang Mai	May, 1995
2. Mr. Summana Moolasarn (Sam)	Ubon Ratchathani	January, 1996
Working Professional PharmD Program:		
3. Ms. Aroonut Lucksiri (No)	Chiang Mai	August, 1996

The names in parenthesis indicate the abbreviated name given to each student.

UF Faculty visiting Thailand:

Dr. Jeff Hughes Assistant Professor of Pharmaceutics was invited to participate in a week-long workshop on “*Pharmaceutical Biotechnology*” in Bangkok, Thailand at the end of April and beginning of May, 1997. The workshop was held at Chulalongkorn University was open to all faculty in the colleges of pharmacy who were interested in the field. There was between 150-200 attendees. Dr. Hughes gave lectures on: “*Biotechnology and Pharmacy*”, “*Antisense Oligonucleotides in Therapy*”, “*Delivery Systems for Biological Products*” and assisted in the “hands on” laboratory associated with the workshop. Dr. Hughes then traveled to Nakorn-pathom and presented a lecture entitled “*Non-viral gene therapy*” at Silpakorn University, for the basic science faculty and 20-30 pharmacy students.

Thai Faculty visiting UF College of Pharmacy:

During the 3-month interval from July to September, 1997, Ms. Busaba Polpakdee a faculty member from Silpakorn University visited the Pharmaceutics research laboratories of Dr. Jeff Hughes and Dr. Gayle Brazeau to gain experience in the area of non-viral gene delivery. While at UF, Ms. Polpakdee had two major projects she worked on: 1) the evaluation of pharmaceutical relevant factors on transgene expression in the muscle and; 2) the construction of an expression vector to aid in studying transgene expression in a variety of tissues. In addition to these two projects, Ms. Polpakdee attended and participated in the graduate course in Pharmaceutical Biotechnology as well as weekly lab meetings.

Dr. Sindhchai Keokitichai, Dean of Silpakorn University Pharmacy School and Mr. Chatchai Powthongchin visited the college from September 14th - September 17th. During their visit a number of meetings were scheduled with faculty and students related to the promotion and maintenance of the ongoing US-THAI Consortium.

On October 7th and 8th a delegation of Thai faculty visited the College and had various discussions with faculty concerning the use of Computer Assisted Instruction in the classroom and for student use in labs or at home. This group also had interests in setting up the technology for both Poison Control and Drug Information centers.

The following is the list of Thai faculty who visited the college in October:

1. Dr. Sayam Kaewvichit, Lecturer, Department of Pharmaceutical Technology, Faculty of Pharmacy, Chiangmai University, Chiangmai 50200, Thailand.
2. Mr. Viboon Wattananamkul, Lecturer, Department of Community Pharmacy, Faculty of Pharmacy, Khon Kaen University, Khon Kaen, Thailand.
3. Mr. Assadang Polnok, Lecturer, Department of Pharmaceutical Technology, Faculty of Pharmaceutical Sciences, Naresuan University, Pitsanulok, Thailand.
4. Mr. Paiboon Jungsuwadee, Lecturer, Faculty of Pharmaceutical Sciences, Ubon Ratchathani University, Ubon Ratchathani, Thailand.
5. Mr. Charoen Treesak, Lecturer, Faculty of Pharmaceutical Sciences, Silpakorn University, Nakorn-pathom, Thailand.

Dr. Sindhchai Keokitichai, in his capacity as consultant to the President of Silpakorn University, revisited the college for a short (three hour) visit on April 15th to provide preliminary information concerning a new international initiative for joint graduate education among the colleges in the US-THAI consortium. This program, termed the Thai Research Fund (TRF), was to support Thai students doing collaborative Ph.D. programs in with US institutions. Thai students who are accepted into a Ph.D. program in Thailand would receive a governmental grant (around \$80,000) that would permit them to travel to the US to take graduate courses and perform their dissertation research in the laboratories of US faculty who have agreed to be a co-mentor on the student's graduate committee. Travel and research funds would also be provided the US faculty who accepts mentorship of a Thai student.

ORGS Coordinated Events for the COP - FY 96/97

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 11, 1996 in the Arredondo Room at the Reitz Student Union from 6:00 PM to 9:00 PM. Eighty five people from the COP attended including guests. At the event 12 graduate students were introduced to the audience as well as 9 new postdoctoral fellows and research associates.

Annual Research Showcase and Awards Recognition Day:

Our 10th Annual Research Showcase and Awards Recognition Day took place on Friday, April 18, 1997 at the University of Florida, College of Pharmacy. A program booklet is included in **Appendix B** which outlines the days events, competitors for each of the divisions and the judges for each of the events.

This year's Showcase and Awards Recognition Day was a special occasion as it marked the College of Pharmacy's 10th Annual Research Showcase Event. In recognition of this annual affair, **Dr. Gerhard Levy**, University Distinguished Professor of Pharmaceutics from the College of Pharmacy SUNY at Buffalo, was our keynote speaker as well as a judge for the oral competition. Dr. Levy addressed an audience of approximately 60 people on the topic of "**Pharmacodynamic Variability**".

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* of the Oral Competition is generously sponsored by Dr. Robert and Phyllis Levitt of Miami and Gainesville, FL. The *Levitt* division was established 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 receive a \$200 check and a commemorative plaque.

Judges for the Oral Competition were: Dr. Gerhard Levy, University Distinguished Professor of Pharmaceutics, State University of New York at Buffalo, School of Pharmacy; Dr. Gerard Shaw, Professor, Department of Neuroscience, College of Medicine; Dr. Susan Spivey-Miller, Clinical Assistant Professor, VA Staff Pharmacist, Gainesville VA Medical Center; Dr. Charles Widmer, Associate Professor and Associate Dean for Research, Department of Oral Surgery, College of Dentistry; Dr. Cheng-I Wei, Professor, Food Science and Human Nutrition, IFAS.

This year's winners for the oral competition were:

Senior Division - winner

Mr. Peter Buchwald Pharmaceuticals/Center for Drug Discovery \$500 cash award
Title: "***Molecular Size Based Approach to Estimate Partition Properties. Model and Application***".

Senior Division - finalist

Ms. Baerbel Eppler Pharmacodynamics \$200 cash award
Title: "***Iron-induced L-DOPA Oxidation and Taurine Protection in LLC PK1 Cell Culture***".

Senior Division - finalist

Mr. Jiong Shi Pharmacodynamics \$200 cash award
Title: "***Effects of 17 β Estradiol on Glucose Transporter 1 Expression and Endothelial Cell Survival Following Ischemia in the Rat***".

Junior Division - winner (tie)

Mr. Earvin Liang Pharmaceutics \$350 cash award
Title: "***Development of Dodecyl 2-(1'-imidazolyl) Propionate to Increase the Endosomal Escape of Oligonucleotides***".

Junior Division - winner (tie)

Ms. Pattie Green Pharmacodynamics \$350 cash award
Title: "***Phenolic A Ring Requirement for Estrogen Receptor Independent Neuroprotection by Estratrienes***".

Levitt Division - winner

Ms. Kelly Gridley Pharmacodynamics \$500 cash award
Title: "***Low Concentrations of Estradiol Reduce β -Amyloid-induced Toxicity, Lipid Peroxidation and Glucose Utilization in Human SK-N-SH Neuroblastoma Cells***".

Levitt Division - finalist

Mr. Darren Roesch Pharmacodynamics \$200 cash award
Title: "***Characterization of Brain Corticosteroid Receptors in the Nonpregnant and Pregnant Ewe***".

For the poster competition this year we had 18 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.

Judges for the Poster Competition were: Dr. Jeffrey Harrison, Assistant Professor, Department of Pharmacology and Therapeutics, College of Medicine. Dr. Saeed Khan, Associate Professor, Department of Pathology, Immunology and Laboratory Medicine, College of Medicine. Dr. Alistar Webb, Professor and Associate Chair, Department of Physiological Sciences, College of Veterinary Medicine.

The winners for this years poster competition were:

Graduate Student - winner

Mr. Sriram Krishnaswami Pharmaceuticals \$200 cash award
Title: “*A Pitfall in Pharmacokinetics of Oral Multi-Compartmental Analysis*”.

Post-Doctoral Fellow Division - winner

Dr. Bernd Meibohm Pharmaceuticals \$100 cash award
Title: “*Comparison of the Systemic Activity of Inhaled Corticosteroids Quantified by PK/PD Modeling*”.

Pharmacy Student Division - winner

Ms. Toni Hawk Pharmacodynamics \$100 cash award
Title: “*Testosterone Increases and Estradiol Decreases Middle Cerebral Artery Occlusion Lesion Size in Male Rats*”.

Other ORGS Activities for FY 96/97

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 3rd 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 96/97; Graduate Studies Committee \(GSC\) Activities](#) for details and activities of this committee throughout the year.
- **Equipment Committee.** This committee met four times to discuss and select faculty proposals requesting the purchase of “college-wide” equipment. Seven proposals were funded with a total of \$50,000 being expended. The committee was chaired by Dr. Joanna Peris, Associate Professor of Pharmacodynamics.
- **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 four times in FY96/97 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 (June 12th and 13th, 1997) with Mike Brodeur and Dr. Gayle Brazeau to the University of Toledo, in Toledo, Ohio to visit their College of Pharmacy’s new building. The team, along with architects from Florida met with architects and college official from Toledo to “walk through” and view the development of the new building. Specific problems and building layout designs were thoroughly reviewed.

- **Curriculum Coordinating Team.** This committee was established as a result of the AACP Institute for Pedagogical and Curricular Change conference in Leesburg, VA (see below, [Conferences Attended Related to ORGS activity, AACP Institute for Pedagogical and Curricular Change Workshop](#)). 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.

It was this HRC Research Dean's Committee that helped coordinate the Annual University of Florida Health Science Center Research Week. This event took place the week of October 17th - 22nd, 1997. For this event the Associate Dean was a group leader for a number of local high school students, in which the necessity of science education and biomedical research was the focus of his discussions. The Associate Dean also served as the informational pipeline to recruit COP faculty to submit and man research posters for this event. Of the 114 posters displayed over the four days 10 were from the COP faculty.

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 96/97 were fund raising for ORTGE, graduate student recruitment, the College Incentive Fund 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:

- **Workshop on Integrity in Research.** This workshop held on April 15, 1997 at the Gainesville Radisson Hotel focused on assisting administrators in recognizing and dealing with issues related to scientific misconduct and research integrity. This day-long work shop was sponsored by ORTGE and the Office of Research Integrity (ORI) of the U.S. Department of Health and Human Services.
- **AACP Institute for Pedagogical and Curricular Change Workshop.** This four day conference was held at the Xerox Document University in Leesburg, VA from May 30th to June 4th, 1997 and was sponsored by the American Association of Colleges of Pharmacy (AACP). The major goal of this 5-day conference was to expose selected faculty from each of 24 Colleges of Pharmacy to current teaching and curricular strategies.
- **State University System Dean's Conference.** This two day conference was held on May 4th-6th at the Mission Inn Conference Center in Howey-in-the-Hills, Florida. This Conference is coordinated by the Institute for Academic Leadership (IAL) from Florida State University. The conference is specifically designed to give new administrators insight into the State University System (SUS) and their roles and responsibilities of their respective positions.
- **COP National Advisory Board.** The Associate Dean attended both the Fall 96 (October) and Spring 97 (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.

The ORGS has taken on the role as coordinator of this program in the COP. This year **Dr. Rashmi Barbhaiya**, Executive Director, Department of Metabolism and Pharmacokinetics, Bristol-Myers Squibb Pharmaceutical Research Institute visited the college on February 17th. Dr. Barbhaiya lectured to the 3PH class on Pharmaceutical formulations and then presented a seminar entitled: *“Pharmacokinetics: A Regulatory Hurdle or Research Tool”*. Throughout the day, Dr. Barbhaiya met with graduate students and faculty in the college.

The overall visit was quite rewarding as we got excellent feedback from Dr. Barbhaiya. As a result of Dr. Barbhaiya’s visit, one of our graduate students, Dr. Sandra Suarez, was given the opportunity of an interview for employment at Bristol-Myers Squibb.

- **Dr. Victoria Hale.** As part of the University of Florida Graduate Student Awareness Week, Dr. Karen Holbrook, Vice President for Research and Dean of the Graduate School, invited **Dr. Victoria Hale** a Senior Research Scientist from Genentech, Inc. to visit the University on March 27th, 1997. The ORGS, with the assistance of Dr. Gayle Brazeau, coordinated and helped sponsor Dr. Hale’s visit. Dr. Hale spoke to a university audience concerning: *“Science in the Corporate Environment”*. This seminar attracted over 150 students and faculty from across the university.
- **Facilitator for Graduate Student Sexual Harassment Workshop.** The Associate Dean for Research and Graduate Studies facilitated a sexual harassment workshop for graduate assistants as part of the orientation week for new graduate assistants. This workshop took place on August 19th and 20th, 1996.
- **Jacksonville Research Day.** The Associate Dean for Research and Graduate Studies served as both a poster (28 posters) and oral (9 oral presentations) judge for the University Medical Center Research Day in Jacksonville. This event was held on May 12th, 1997.

Appendices

[Appendix A](#): Applicant letter from the ORGS.

[Appendix B](#): Program flyer for the 10th Annual Research Showcase and Awards Recognition Day.