1996-97
Annual Report

Idaho State University
College of Pharmacy

Campus Box 8288
Pocatello, Idaho 83209
Phone: 208-236-2175
http://pharmacy.isu.edu
Advanced Parenteral Products
Advanced Biopharmaceutics & Pharmacokinetics
Advanced Pharmacy Administration
Advanced Pharmacy Management I & II
Ambulatory Care Clerkship
Basic & Applied Pharmacology
Biological Actions of Chemicals
Biopharmaceutical Analysis
Case Studies in Pharmacy I, II, III & IV
Clinical Chemistry
Clinical Pharmacokinetics
Clinical Research Design & Analysis
Current Topics in Pharmacy
Dermatologicals
Dissertation
Dissertation Research
Drug Information Clerkship
Drug Information & Medical Terminology
Drug Therapy
Drugs in Society
Essentials of Pharmacology
Ethics for Health Professions
Externship
Geriatrics Clerkship
Graduate Seminar in Pharmaceutical Sciences
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The 1996-97 academic year was a year of defining direction for the College. A strategic plan was developed that outlines the mission and the spectrum of goals and objectives for the College. The plan will be evaluated and modified on an ongoing basis to ensure that it remains relevant as a guiding document.

Dr Virginia Galizia, our new Associate Dean, joined the faculty in August of 1996 and set about a process of evaluating the efficiency and productivity of the Office of Student Affairs. In a short period of time, she reorganized the work flow in the office, improved the system of documentation and tracking, and restructured the admissions process to seek greater faculty input and to involve the Boise-based faculty. Prepharmacy club activities have increased at the four schools that provide the majority of ISU applicants.

The graduating class of 1997 was the first to complete the new curriculum in its entirety. The Curricular Affairs Committee continues the process of fine-tuning the curriculum. The problem-based learning sequence (case studies) delivered throughout the second and third professional years is now well established. It is clear, based on input at multiple levels (including students and faculty), that the new curriculum has made important strides in preparing students for the delivery of pharmaceutical care.

In conjunction with our partner institutions, College of Pharmacy faculty precepted six residents based in Pocatello and Boise. Drs Cady, Culbertson, Force, Hefflinger, Mason, and Rhodes served as preceptors for these experiences. This year marked the implementation of a new one year postgraduate training experience in Drug Utilization Review and Pharmacoeconomics precepted by Drs Vaughn Culbertson and Paul Cady. This residency provides experience in analysis of population-based data, developing therapeutic recommendations for rational and cost-effective drug therapy, developing drug use criteria, designing investigations of potential drug-related problems, and developing educational interventions for practitioners.

Continued growth in the areas of research and scholarship are evident in both academic departments. These research efforts articulate with and support the graduate program where the M.S. and Ph.D. degrees are offered. Faculty made an impressive number of presentations at professional/scientific meetings throughout the year. Drs Diedrich and Ratka were successful in receiving federal funding for support of research programs in the College. Dr Vaughn Culbertson continued to serve as Director of the Idaho Drug Utilization Review Program for the Idaho Department of Health and Welfare. The faculty and staff involved in this program had positive impact on the use of medications by Medicaid patients in Idaho. Several research papers have emanated from this program, as well.

Dr Chris Daniels served unselfishly throughout the year as Interim Chair of the Department of Pharmaceutical Sciences. He has been a cohesive force within the department, and all faculty and students owe him a debt of gratitude for his leadership. Following a national search for a permanent chair and interview of several outstanding candidates from across the country, Dr Daniels was selected as clearly the most qualified candidate. He became the permanent department chair in July of 1997.

As the 1996-97 academic year closed, ground was broken for the 10,000 square foot addition to Leonard Hall. This new space will provide a state-of-the-art telecommunications classroom, 3 small classrooms for teaching in small groups, a research lab, 11 offices, and unfinished space in the basement for future expansion. Needless to say, we are delighted to have this additional, much needed space to serve our students and faculty.

I want to thank the many alumni and friends of the College who give unselfishly of their time and dollars to enable program enhancements, learning opportunities, and scholarships that would otherwise be impossible. Although state funds support minimal operations of the College, the gifts and contributions received each year clearly make an impressive and measurable difference that enables our students and faculty to strive for excellence. I believe all the College’s constituencies are working together more productively than they have in the past, and I remain extremely optimistic about the future of the College and the profession.

Barbara G. Wells
Dean
During the 1996-97 academic year, faculty, staff, and students engaged in strategic planning for the College, and the following are summaries of the newly revised mission and goals.

**Mission**

The College of Pharmacy, an agent of the state of Idaho, is a nationally-recognized, statewide program for the education of pharmacy practitioners in the delivery of pharmaceutical care. This mission includes the delivery of highest quality prelicensure education, graduate education in the pharmaceutical and social/administrative sciences, and competency enhancement of pharmacy practitioners.

As a major comprehensive health sciences academic program, the College is the State’s resource for scientific investigation on pharmaceutically-related health issues and the largest repository for expertise in pharmacy practice in the State.

Educational, service and research programs are tailored to meet the specific needs of the citizens of Idaho.

**Provide a dynamic and innovative curriculum**

**Enhance the College’s culture towards faculty scholarship**

**Provide ongoing and accessible postgraduate lifelong learning opportunities**
Goal 1  Provide a dynamic and innovative curriculum in the didactic and experiential components in order to produce Doctor of Pharmacy graduates who possess advanced drug knowledge, required skills, and professional attitudes that enable them to ensure and promote rational and cost effective drug therapy, which improves patients quality of life. This will be accomplished in an environment that recognizes the importance of diversity and that is consistent with the University’s policy on ethics.

Goal 2  Reorganize and enhance the effectiveness of the Student Affairs and Assessment Programs.

Goal 3  Strengthen the graduate programs.

Goal 4  Enhance the College’s culture towards faculty scholarship.

Goal 5  Assure that faculty and student needs for space and equipment are met.

Goal 6  Provide ongoing and accessible postgraduate lifelong learning opportunities to meet the needs of the profession.

Goal 7  Provide patient care, professional, and public service to the people of Idaho.

Goal 8  Continue to improve faculty development.

Goal 9  Enhance communication among faculty and students.

Goal 10 Improve the relationship between the College and pharmacy practitioners within the state of Idaho and provide leadership in preparing the profession to meet future challenges and opportunities.

Goal 11 Continue to recruit and admit highly qualified applicants into the professional program. Particular attention will be given to increasing the pool of applicants who are residents of Idaho.

Goal 12 Continue to develop and expand postgraduate training opportunities for Doctor of Pharmacy graduates.

Goal 13 Seek additional resources to enhance the education, research, and service mission.
The College’s faculty and staff pool their combined talents to form a high-quality educational team.
Building Towards the Future

On June 16th, our expansion became a reality when Taysom Construction began demolishing the southeast ramp to begin excavation and building of the Leonard Hall addition. Idaho architects Nielson, Bodily and Associates’ design was chosen, and the structure will be completed in the Winter of 1998.

When completed, the addition’s 10,000 square feet on three floors will house 10 offices, a telecommunications classroom with two-way video/audio capabilities and connectivity for laptop computers at each student desk, three small group teaching rooms, secretarial support space, a research laboratory, and an unfinished basement for storage and future expansion.

You might not realize that the College of Pharmacy is the oldest, still existent, college on the ISU campus, having been established in 1921 and located in Leonard Hall in 1942. Our building was originally designed by Sundberg and Associates and renovated between 1986 and 1990 with Hummel-LaMarche-Hunsucker’s design. ISU began offering the 6-year Doctor of Pharmacy degree program, with a nontraditional pathway for practicing pharmacists, in 1987, and the first Pharm.D. recipients graduated in 1990. We are anxious for completion of the new addition, which will allow all Pocatello-based faculty to be located under one roof for the first time in 20 years!
Dean’s Advisory Council

The Dean’s Advisory Council serves as an advisory body to the Dean of the College of Pharmacy. The Council meets twice a year and provides counsel regarding the curriculum, strategic planning, fund raising, program assessment, activities and functions, proposed legislation, and other areas as required. The membership of the Dean’s Advisory Council includes state and national pharmacy leaders, alumni, practicing pharmacists, pharmacy owners, and corporate and industrial leaders. Members of the Council serve three-year terms that may be repeated at the discretion of the Dean. Appointments to the Council are made by the Dean with recommendations from the Council and College of Pharmacy administration.

1996-97 Dean’s Advisory Council Members:

James Alexander, Sav Mor Drug
Kent Alexander, Sav Mor Drug
Brad Anderson, SmithKline Beecham Pharmaceuticals
Brian Auer, The Owl Pharmacies
Steve Avey, Prospective Health Inc.
Jack Botts, Jack’s Pharmacy Inc.
Marion Bowen, Idaho Board of Pharmacy
Kelly Carpentier, PayLess Drug Stores
JoAn Condie, Idaho State Pharmacy Association
Paul Driver, Pocatello Regional Medical Center
William Eames, William M. Eames and Associates
Phil Fergusson, Bayer Corporation
Robert Fischer, Selkirk Medical Service
James Francis, St. Luke’s Regional Medical Center
Allen Frisk, St. Alphonsus Regional Medical Center
Dorothy Galloway, Bingham Memorial Hospital
Lorri Gebo-Shaver, Super Save Drug
Neil Griggs, Columbia Eastern Idaho Regional Medical Center
Steven Hadlock, The Medicine Shoppe
Nancy Hecox, Fred Meyer Inc./Washington Board of Pharmacy
Doug Janachek, Merck & Company, Inc.
Kent Jensen, Fred Meyer Inc.
Shawna Kittridge, Idaho Care Systems
Don Leonard, Chateau Drug
Howard Mann, Allen & Hanbury
Richard Markuson, Idaho Board of Pharmacy
Gary Meadows, Washington State University
Val Middleton, Hyway Drug/Idaho Board of Pharmacy
Jay Osborne, Sierra View District Hospital
Ara Paul, Dean Emeritus/The University of Michigan
Boyd Poulsen, Retired/Syntex
Kent Quickstad, St. Luke’s Regional Medical Center
Ed Reddish, Malla Reddish Pharmacy
George Roe, Costco
Doug Rooney, Northwest Cosmetic Laboratories
Frank Savage, Agouron Pharmaceuticals, Inc., and Amgen Inc.
Mark Shadle, Albertson’s Inc.
Marilyn Silcock, Bannock Regional Medical Center/Idaho Board of Pharmacy
Edward Snell, Ed Snell’s Pharmacy Shop
Dorsie Sullenger, Madison Memorial Hospital
Frank Talboy, VA Medical Center
John Tilley, Tilley Apothecaries Inc.
Mary Wheatley, Ontario Clinic Pharmacy
Ralph Wheeler, State Legislator
John Wiltse, Idaho Society of Health-System Pharmacists
College Committees

Committees are comprised of faculty members and students. Faculty members on the committees (except the Technology Committee) serve two-year terms, other than those serving as representatives of University Committees, which may have longer terms. Students are appointed for one-year terms. Faculty are elected by their colleagues for the Faculty Affairs Committee; departmental representatives on other standing committees are appointed by the Administrative Council of the College.

Curricular Affairs Committee
Rodney Larson (Chair)
Virginia J. Galizia (Ex Officio)
Dana Diedrich
Catherine Heyneman
Chris Lewis (Student)
James Lai
Karl Madaras-Kelly
Anna Ratka
Michael Houle (Student)

Technology Committee
Paul Cady (Chair)
Virginia J. Galizia
Stephen Hurley
Sandra Jue
Thomas LaHann
Joerg Senekowitsch
Mary Ann Stoll
Brenda Story-Phelan
Cindy Wilson

Faculty Affairs Committee
Thomas LaHann (Chair)
John Erramouspe
Eric Jarvi
Rodney Larson
James Lai
Shirley Reitz

Graduate Education and Faculty Research Affairs Committee
James Lai (Co-Chair)
Anna Ratka (Co-Chair)
Vaughn Culbertson (Ex Officio)
Chris Daniels (Ex Officio)
Sandra Jue
Barbara Mason
Cary Mobley
Shubhada Sansgiry (Graduate Student)
Brenda Story-Phelan

Student Affairs Committee
Virginia J. Galizia (Chair, Ex Officio)
Vaughn Culbertson (Ex Officio)
Jeffrey Hardin (Student)
Eugene Isaacson
Clive Nelson
Richard Rhodes
William Sharp
Kimberly Wilcox (Student)

Committees...
Teamwork in Action
Office of the Associate Dean

Virginia J. Galizia, Ph.D.
Associate Dean, ISU College of Pharmacy

(Traditional) Doctor of Pharmacy program for 1996-97 was 206 students:

- Class of 1997 (P-4 students) 51
- Class of 1998 (P-3 students) 49
- Class of 1999 (P-2 students) 54
- Class of 2000 (P-1 students) 52

The retention rate for the College of Pharmacy over the four year period, 1993-97, was 97 percent.

More than $80,350 was awarded in scholarship assistance to Pharm.D. students for the 1996-97 academic year. During this same period, the College acquired more than $30,000 in endowed scholarship funds and $3,000 in foundation scholarship awards.

Assessment

Assessment is essential to a quality educational program. Various assessment activities have been coordinated or carried out during the 1996-97 academic year as a responsibility of the Associate Dean. Faculty were also actively involved in curricular assessment activities.

Exit interviews were conducted with graduating seniors via a survey administered during the licensing review course in May. Those items that were considered as important and/or strengths were: the College’s curriculum, faculty, location, student body, the students’ motivation and personal involvement with learning, class attendance, the development of students’ responsibility for their own education and their preparation to function in a complex society, clinical supervision, satisfaction with the admission process, and employment opportunities via the College’s Pharmacy Fair (career day on campus). Case studies, pharmacology, and therapeutics coursework were highlighted as very important courses. Overall, the new graduates felt they received an excellent education and provided thoughtful recommendations and information pertaining to their immediate and future career goals.

As a follow-up to a P-3 student-conducted survey performed in 1996, the Curricular Affairs Committee reissued the survey to the 1997 P-3 class. Prior to entering clerkship, third year Doctor of Pharmacy stu-
students were asked to rate the curriculum on perceived usefulness and unnecessary redundancy (repetition) in professional coursework. The results, compared to third year student responses in the initial survey in 1996, showed no net change in the number of courses perceived as useful to future careers in pharmacy. However, much to the faculty’s credit, a major decline in the number of courses perceived as involving unnecessary repetition was noted from the 1997 survey.

A special section of the two-year long case studies curriculum (PSCI 401-402 and PPRA 501-502) was established during the Spring 1997 semester to pilot a new and innovative model for these courses: peer interaction and teaching between second and third year Doctor of Pharmacy students. The two course coordinators, Drs. Eric Jarvi and Rodney Larson, surveyed the students as to their perceptions about this new experience after spending the Fall 1996 semester with their respective classmates. Especially noted was the enhanced learning that took place once the students acclimated to the new process and the positive experiences attained in this new setting. The students recommended this combined group process be continued and expanded to include more ‘real patient’ interactions and follow-up of these patients.

First year Doctor of Pharmacy students incur many changes in their initial year of the rigorous professional curriculum. Comments and feedback from students lead to the collaboration between the College (Student Affairs) and the Academic Skills Center (ASC) of the University to adapt existing programming offered by the ASC for pharmacy students. A three-unit workshop was piloted in January 1997 to include enhancing note-taking, test-taking, and study habit skills as well as stress management. Examples from several pharmacy courses were generously provided by the faculty to be incorporated in these sessions. At the conclusion of the workshop series, student evaluations indicated that the information presented would be most helpful early in the fall semester of their first year in the program, and that some of the ideas presented would be useful in their daily activities. Specific recommendations made by the students will be incorporated into a new seminar offering to be initiated in Fall 1997.

Some modifications were made in the admissions process for the College during 1997 based on feedback from the faculty and students. Among these were the inclusion of students and Boise-based faculty in interviews and discussion sessions. To better understand the impact of several changes as well as to assist in the development of the admissions process for 1997-98, all faculty and student participants were surveyed for comments. Specific recommendations will be reviewed for implementation by the Admissions Subcommittee (Student Affairs Committee) during Fall 1997.

Proudly, ISU’s outstanding performance record on the national pharmacy licensing exam continues. The pass rate for ISU graduates taking the new North American Pharmacist Licensing Examination (NAPLEX) in June 1997 was 98 percent. ISU graduates have again substantially exceeded the national pass rate of 93 percent. This was the first time ISU graduates took the new computerized national examination. During the administration of the Idaho law examination on May 8, 1997, graduating students participated in piloting a pool of questions for a new National Association of Boards of Pharmacy (NABP) multi-state jurisprudence examination being developed for future use in a computerized format.

The College’s Assessment Committee has been active in revising the Doctor of Pharmacy’s program objectives and overall competencies. These concepts will then be used as the framework for systematically revising the curriculum, assessment, pedagogical processes, departmental and college goals.

The College’s faculty and students are among its most treasured resources and assets. Program and curricular offerings continue to be highlighted accomplishments for the College as are the individual accomplishments of the faculty and students. The Office of the Associate Dean intends to encourage and assist in the enhancement of existing accomplishments and in the development of new goals toward this end as the College moves into the 21st century.

Virginia J. Galizia
Associate Dean
# Admission Statistics Fall 1996

<table>
<thead>
<tr>
<th>Total Qualified Applicants</th>
<th>290</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Students Interviewed</td>
<td>92</td>
</tr>
<tr>
<td>Total Students Admitted</td>
<td>52</td>
</tr>
<tr>
<td>Mean Age</td>
<td>26</td>
</tr>
<tr>
<td>Average grade point</td>
<td>3.41</td>
</tr>
</tbody>
</table>

**Previous Degrees**

- Associate: 13%
- Bachelor: 25%
- Masters: 5%
- Ph.D.: 3%

**Previous Schools Attended:**

- ISU: 63%
- Ricks College: 4%
- North Idaho College: 4%
- Boise State University: 6%
- College of Southern Idaho: 6%
- University of Idaho: 2%
- Treasure Valley Comm. Coll.: 2%
- Other: 17%

<table>
<thead>
<tr>
<th>Gender</th>
<th>Residency</th>
<th>Ethnic Background</th>
</tr>
</thead>
</table>

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*Office of the Associate Dean*
Institute for the Advancement of Pharmaceutical Care

The Institute for the Advancement of Pharmaceutical Care (IAPC) was officially established by Idaho State University College of Pharmacy in October 1995.

Its mission is to promote the advancement of the profession of pharmacy towards the patient-centered philosophy of pharmacy practice, known as “Pharmaceutical Care.” This mission is being carried out through education, research, and service.

The IAPC fosters cooperation and understanding between pharmacists and the organizations created to serve and regulate them (including the Idaho State University College of Pharmacy, Idaho State Board of Pharmacy, and the various regional, state, and national pharmacy associations). The IAPC also disseminates information to the general public to promote awareness of the contributions that pharmacists can provide to patient care.

IAPC personnel include:

- Director: Rodney A. Larson, Ph.D.
- Funding Coordinator: Lesli Brassfield, M.P.A.
- Faculty: Barbara A. Adamcik, Ph.D., Jan Beckwith, Pharm.D., Paul S. Cady, Ph.D., Vaughn L. Culbertson, Pharm.D., Roger Hefflinger, Pharm.D., Stephen C. Hurley, Pharm.D., Joy R. Matsuyama, Pharm.D., Brenda Phelan, Pharm.D., William T. Sharp, Ph.D., Barbara G. Wells, PharmD.

Educational Activities

The IAPC cosponsored a presentation given by John Loch, a pharmacist and representative of Encara®. This Minnesota-based company offers a training and support program for community pharmacists who wish to transform their practice to the pharmaceutical care model. The audience primarily comprised local pharmacists and state association members.

A talk entitled, “Institute for the Advancement of Pharmaceutical Care” was given by a representative of IAPC to Capital Pharmacists Association in Boise, Idaho, whose members wished to learn more about pharmaceutical care and future IAPC plans for Idaho pharmacists.

Members of the IAPC are currently developing a community pharmaceutical care residency and negotiating with a number of local pharmacists who are interested in such a program for their sites.

Research Activities

Although extramural funding was not awarded to IAPC during the 1996-97 calendar year, a number of promising research projects are being developed, and funding opportunities are being explored. The first project to be developed is one in which pharmacists would provide pharmaceutical care to patients receiving a particular prescription drug that has a high potential for moving to over-the-counter status. The outcome data collected would be provided to the manufacturer and be used to meet some of the Food and Drug Administration requirements for the status change.

The second project involves the creation of a nationwide network of pharmacies that are offering pharmaceutical care to patients. Once pharmacies are identified and properly equipped, outcome data would be collected from them on an ongoing basis. The anonymous information from this expanding database would be utilized by IAPC faculty to perform research on clinical outcomes. The database would also be made available to other research institutions, drug manufacturers, state and national governmental agencies, and health insurance companies. Efforts are being made to identify funding agencies for a pilot project in Idaho designed to demonstrate the feasibility of such a network.

Service Activities

Members of IAPC have been consulting with the president-elect and the executive secretary of the Idaho State Pharmacists Association since November 1995. Areas of consultation range from methods and techniques of providing pharmaceutical care to determining how Idaho should begin training its pharmacists to provide this care. A plan is being developed to create a training program for Idaho pharmacists. This program could eventually include other states in the Pacific Northwest who wish to participate. Creating a pharmaceutical care certification program through the IAPC is another topic under consideration.
Pharmacy Practice Residency Program

Continuing involvement and development of pharmacy practice postgraduate training opportunities was an important accomplishment during the 1996-97 academic year. Pharmacy practice residents participated in numerous professional and educational activities during the year. In addition to pharmaceutical care responsibilities, their efforts included presentation of a seminar, poster presentations at state and national meetings, presentation of numerous in-service educational conferences, student clerkship supervision, case study tutorials, and research projects.

This year marked the initiation of a new, one-year training experience in drug utilization review (DUR) and pharmacoepidemiology. Unlike traditional clinical pharmacy training, the DUR residency offers a unique, population-based, pharmacotherapeutic perspective including experience in developing drug use criteria, analyzing prescribing and dispensing trends, developing physician and pharmacist educational interventions, and designing epidemiologic investigations of potential drug-related problems. The residency is supported by the Idaho Medicaid DUR program.

Despite increasing financial pressures, we are optimistic about future opportunities and enthusiastically committed to a strong postgraduate training program to meet the changing health care needs of Idaho citizens. In the coming years, we sincerely hope to report additional residency and fellowship experiences offered by the College.

1996-97 Residency Training

<table>
<thead>
<tr>
<th>Resident</th>
<th>Discipline</th>
<th>Site</th>
<th>Faculty Preceptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amber Bell</td>
<td>DUR</td>
<td>COP/Idaho DUR Program</td>
<td>V. Culbertson</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>P. Cady</td>
</tr>
<tr>
<td>Joette Ballard</td>
<td>Geriatrics</td>
<td>Pocatello Veterans Home</td>
<td>R. Rhodes</td>
</tr>
<tr>
<td>Cara Lawless</td>
<td>Medicine</td>
<td>ISU Family Medicine Residency</td>
<td>R. Force</td>
</tr>
<tr>
<td>John Thomas</td>
<td>Ambulatory Care</td>
<td>Boise Family Practice Residency</td>
<td>R. Hefflinger</td>
</tr>
<tr>
<td>Beata Saletnik</td>
<td>Ambulatory Care</td>
<td>Boise VA</td>
<td>B. Mason</td>
</tr>
<tr>
<td>Nichell Stuart</td>
<td>Ambulatory Care</td>
<td>Boise VA</td>
<td>B. Mason</td>
</tr>
</tbody>
</table>
Nontraditional Pharm.D. Program

The Nontraditional Doctor of Pharmacy (Non-T) program is designed for practitioners who hold a Bachelor’s degree in Pharmacy and a valid license to practice pharmacy in the United States and who desire the opportunity to earn a Pharm.D degree without returning full-time to a college campus. For this reporting period, the program was coordinated by Dr. Brenda Story-Phelan.

Admission Procedure

Candidates for the Non-T Pharm.D. program must complete an admissions procedure that includes submitting documented evidence of a strong academic record, clinical experience, and past achievements as a pharmacy practitioner. Priority is given to residents of Idaho, however pharmacists are encouraged to apply regardless of residence. Prior to admission to the program, all candidates must travel to Pocatello to complete an assessment process, which includes interviews and baseline assessment activities.

The Program

The Non-T curriculum includes 30 credits of didactic course work that is taught using a combination of video tapes, detailed syllabi and textbooks. Each course has an assigned instructor that is available to students via telephone for questions or assistance. Each student can complete the didactic course work at their own rate; however, the total 30 didactic credits must be completed within three years.

After the didactic portion of the program is completed, students must perform 28 weeks of clerkship training. Approximately 200 clerkship sites have been established throughout the United States.

Enrollment and Graduates

The Non-T program has graduated 90 students as of August 1997. Currently, over 200 students from throughout the United States are enrolled in the program. The applicant pool remains strong and provides enough qualified candidates to continue admitting a minimum of 50 new students annually.

Program Changes

The Non-T program incorporated several changes to improve its curriculum during the 1996-97 year.

First, the Non-T program has been promoting its students use of the College’s WebStudies program via the Internet. This case studies course has been used by the traditional students for several years with remarkable, positive results. Although an elective at this time, WebStudies will soon be implemented as part of the degree requirements for the Non-T program. This change will maintain the parallelism of the traditional and Non-T program pathways.

Second, the program has worked with computer experts to convert the current, videotaped course materials into a format accessible via the Internet, allowing students to learn and review course materials by simply accessing the appropriate URL through their current internet provider. The Non-T program also began experimenting with an Internet test making and taking program that would allow students to access course exams, submit their answers, and receive their test scores more rapidly. These processes will take time to finalize and each course will be converted one at a time. The entire process is expected to take approximately two years but is anticipated to result in an accessible and user-friendly system that incorporates the latest in technological advances.

The College’s Non-T Program continues to make technological advances
Department of Pharmacy Practice & Administrative Sciences

Vaughn Culbertson, Pharm.D.
Chair, Department of Pharmacy Practice & Administrative Sciences

The dynamic nature of pharmacy practice and pharmaceutical education demands enormous energy from its practitioners. During academic year 1996-97, the department faculty have undertaken a variety of curricular, research, and service activities to stay abreast of the challenges impacting pharmacy practice. Adding to these challenges are the many technological advancements and the concomitant response in the delivery of services in our still evolving health care system. The positive responses to these formidable tasks have been extremely gratifying, and I would like to comment on some of the faculty’s contributions and accomplishments.

Teaching remains our primary responsibility. The department and the College are fortunate to have a strong cadre of talented and dedicated faculty, many of whom are superior teachers. Distinction in teaching is validated by the exceptional student evaluations that the faculty members receive.

The problem-based learning (PBL) sequence, delivered in the second and third professional years of the curriculum, is now well established, and our first class to complete the new curriculum entered clerkships during academic year 1996-97. As expected, the ability to provide curricular experiences directly focusing on skill development in the identification, assessment, and therapeutic management of drug-related problems does significantly enhance the relevance of didactic coursework, reinforce the concepts of pharmaceutical care, and facilitate transition into the clerkship curriculum. Preceptors volunteered extremely positive comments regarding the preparation of this clerkship class, and students generally describe the PBL course sequence to be an intense, but rewarding learning experience. Department faculty responsible for the third year courses began what will undoubtedly be a continuous process of experimentation, revision, and refinement as this curriculum evolves. I sincerely congratulate the faculty in both departments for their diligent work and accomplishments with respect to implementation of a truly novel curricular innovation in pharmaceutical education.

A continuing emphasis on research and scholarship is evident from the department’s contribution to funded grants and scholarly publications. Departmental faculty contributed as principal investigators to ten research projects and nine educational or service contracts during the academic year. A similar trend is evident from the list of publications authored during the year which includes 18 published manuscripts, four book chapters, and 11 abstracts. Certainly, Dean Barbara Wells is deserving of special recognition for her editorial and scholarly contributions to three textbooks published this year including the third edition of Pharmacotherapy - A Pathophysiologic Approach. Continued growth of the department’s research and scholarship efforts are high priority goals for the future as we endeavor to strengthen our regional and national standing.

In the areas of committee and patient care service, it is clearly evident that the faculty are extremely busy (see Appendix I) well above and beyond their customary teaching responsibilities. Departmental faculty members delivered more than 70 presentations to the lay public, pharmacists, various health care practitioners, and other researchers during the academic year. Furthermore, faculty members participate in local, state, and national pharmacy organizations. Many faculty are actively involved in daily patient care responsibilities and collaborate closely with other health care practitioners in the community via patient care conferences and committees. Finally, many faculty members serve on a number of College and University academic committees. Each member of the department deserves recognition for their individual contributions. Their accomplishments are truly remarkable and certainly bring a strong sense of pride and recognition to the College and University as well.

I would like to take the opportunity to recognize the nearly 200 adjunct faculty who contribute so importantly to our educational program. Although space does not permit individual identification, I would like to recognize a special group of practitioner/educators. These individuals include pharmacists at the University of Nevada Medical Center in Las Vegas, Reno VA Medical Center, Washoe Regional Medical Center in Reno, the Naval Medical Center in San Diego, and Magic Valley Regional Medical Center in Twin Falls. These individuals exemplify pharmacy education and practice on a daily basis. Moreover, they have contributed significantly and positively to the clinical clerkship program for many years. Finally, recognition is due to departmental secretaries, Ms. Beverly Sion and, a new addition this year, Ms. Sharlene Hetrick. Their extraordinary skill and abilities in managing the myriad of details each day never ceases to amaze me. I thank all of you for your dedication and devotion to the College and our students. Your efforts are essential to our success.

Although much work remains, I am extremely proud of the department’s record of accomplishments, and again honored to have served as its Chair. Perhaps most importantly, however, I believe the future holds great promise and many opportunities. I look forward to reporting even greater accomplishments next year!
The Department of Pharmaceutical Sciences is currently undergoing a period of significant change. Last year, the department drafted and approved new goals and objectives, emphasizing both a continued commitment to the highest quality of teaching and continuing efforts to strengthen research in the pharmaceutical sciences. The goals and objectives document serves as an important guideline as the department begins the process of recruiting three new faculty to replace retiring senior faculty, with several more new faculty anticipated over the next several years.

Department faculty delivered 21 distinct courses in the basic sciences, some with multiple sections, to pharmacy students in the Pharm.D. professional curriculum. Faculty also provided six service courses to other programs on campus, such as nursing, dental hygiene, physician assistant, and physical therapy. In addition, service courses provided to the nursing program were also taught on distant campus sites including Idaho Falls, Twin Falls, Boise, and Lewiston.

The basic science research efforts in the department interface with the graduate program where the M.S. and Ph.D. degrees in Pharmaceutical Sciences are offered. The department currently has four students seeking the M.S. degree and three working toward their Ph.D. During 1996-97, faculty taught 14 graduate courses. Degrees are offered in the specialty areas of pharmacology, biopharmaceutics, biopharmaceutical analysis, and pharmacokinetics.

Although the department is relatively small, it represents an enormous breadth of scientific disciplines. Specialty areas residing in the Department of Pharmaceutical Sciences are often divided into three separate departments in other colleges of pharmacy. Thus, our department is faced with a formidable task of covering a broad curriculum and providing an environment where diverse faculty can thrive in their scholarship and research endeavors.

The intense national competition for research funding from both governmental and private agencies as well as industrial sources has impacted small institutions, such as ISU, with small research infrastructures. However, grant proposals have been written in the College of Pharmacy to address this issue, and faculty in the College have demonstrated a growing interaction with other life science faculty in the Department of Biological Sciences. A growing molecular sciences core facility is housed in the Department of Biological Sciences. This facility has been funded and equipped in part through the College of Pharmacy. The overall health of our scholarship and ability to train graduate students rests entirely on our ability to secure research funds. The department generated just over $300,000 in research support over FY 1996-977.

Although in the past it has been difficult for faculty to compete scientifically with larger and better-equipped institutions, a new strategy for obtaining funding has been implemented by the department. Some faculty have been proactive in identifying a unique niche in which to practice their scientific craft. For example, Dr. Thomas LaHann has established national visibility in drug development for Boron Neutron Capture Therapy (BNCT). Dr. Eric Jarvi continues to be successful in obtaining contracts to perform quality assurance analyses for a rapidly growing manufacturer of OTC products. Also, Dr. Jarvi has taken the initiative to reestablish the ISU mass spectrometry facility housed in the College of Pharmacy on the lower level of Leonard Hall. Additionally, in concert with the department objective of supporting undergraduate and professional student research, the College has joined in affiliation with the Mountain States Medical Research Institute (MSMRI) in Boise, offering two competitive research fellowships each year to academically outstanding undergraduates. These awards provide support for undergraduate students to spend a full year in the laboratory of an ISU faculty member, contributing to biomedical research project while learning first hand, the fundamentals in the conduct of science. Finally, four awards supporting Pharm.D. student research experiences were obtained by department faculty, one from the National Science Foundation, one from American Association of Colleges of Pharmacy-Novoc Nordisk and two from American Association of Colleges of Pharmacy-Merck.

Over the last year, department faculty generated 7 articles, three book chapters, seven abstracts, and 16 presentations. Dr. Eric Jarvi was among several ISU faculty named as an Outstanding Public Service award winner, and Dr. Chris Daniels was recognized as Most Influential Professor by the top academic student in the College of Pharmacy.

I am excited about the challenges ahead of us and am confident that the department will continue to gain scientific strength as new faculty join us at the ISU College of Pharmacy. I am encouraged that the department faculty have been establishing a shared vision for our future and are working with renewed enthusiasm to establish stronger research collaborations within the College of Pharmacy and with colleagues across campus. These efforts will not only enhance our research efforts, but also strengthen our graduate program and generally increase the department’s productivity.
Graduate Programs

The College of Pharmacy graduate program offers the Master of Science and Doctor of Philosophy degrees that may be earned with study in two major focus areas: pharmacy administration and pharmaceutical sciences.

The M.S and Ph.D. degrees offered with a focus in pharmacy administration include emphasis in the social and administrative sciences. The pharmaceutical sciences focus area offers the M.S. degree with an emphasis in pharmaceutical chemistry, pharmaceutics, and pharmacology and the doctorate degree with emphasis in pharmacology, pharmacokinetics, biopharmaceutics, and biopharmaceutical analysis.

Curricular requirements, mission and goals for the pharmacy administration and pharmaceutical sciences focus areas are significantly different.

Pharmacy Administration

Dr. William Sharp coordinated the pharmacy administration emphasis area during the 1996-97 academic year.

The mission of the pharmacy administration graduate program is to advance research and development in order to enhance the delivery of safe, effective, and efficient pharmaceutical health care. To achieve this mission, the College must continually critique and disseminate existing knowledge, and contribute new knowledge, concerning pharmaceutical health care to a variety of audiences. The professions of pharmacy and medicine, other allied health professions, health care institutions and organizations, health policy makers, and consumers in Idaho and the Intermountain West are the major benefactors of these efforts.

Given the interface between faculty expertise and interests and the unique health care needs of specific patient populations, this graduate program has developed a major research and educational focus on delivery of pharmaceutical health care to under-served populations, specifically elderly and rural citizens. However, this concentrated focus does not preclude faculty and students from pursuing other areas of research interest.

Research activities at the master’s and doctoral levels encompassed by this mission have focused on a number of major categories of issues related to these populations, such as economic, management, marketing, clinical outcome, patient behavior, professional socialization and education, health policy development, and epidemiologic issues in pharmacy.

The graduate program in pharmacy administration is designed to equip students with the conceptual knowledge, technical and analytical skills, and problem-solving ability to enable them to assume positions of responsibility and leadership within the profession of pharmacy and the broader health care system. Specific goals include:

GOAL 1: To advance knowledge in the area of pharmaceutical health care.

GOAL 2: To develop expertise in the delivery of pharmaceutical care to under-served groups.

GOAL 3: To develop a supportive environment for graduate education.

GOAL 4: To interface with clinical and pharmaceutical sciences faculty to develop common areas of research interests.

Students enrolled in the Pharmacy Administration emphasis area of the Graduate Program are:

M.S. Students
Evo Anthony Alemao, B.S.
Kenna Wheeler, B.S.
Kalind Pradhan, B.S.

Ph.D. Students
Donelle Airmet, Pharm.D., M.S.
James Frost, M.B.A
Bala Nadesan, M.B.A., M.S.
Shubada Patil, M.S.
Margorie Hill, M.S.
Pharmaceutical Sciences

The Department of Pharmaceutical Sciences has 13 full-time faculty who generate research support from diverse sources such as ISU Research Committees, State of Idaho, National Science Foundation, American Heart Association, National Institutes of Health, Department of Energy and private industry. Dr. James C.K. Lai coordinated the pharmaceutical sciences emphasis area for the 1996-97 academic year. Affiliate faculty are located at the Boise Veterans Affairs Medical Center. The department occupies research space on the second and third floors of Leonard Hall.

Candidates enrolling in the Master of Science and doctorate programs must meet all requirements for admission to the Graduate School and have an adequate background in the biological and physical sciences. Minimum admission course work requirements include two semesters of biological sciences and basic chemistry, calculus through integral calculus, and two semesters of organic chemistry with laboratory. Those promising students admitted without an adequate course background will be expected to make up deficiencies in addition to course work required for their graduate program.

The graduate program in Pharmaceutical Sciences is designed to meet three primary goals:

**GOAL 1:** To efficiently retrieve and critically evaluate scientific information.

**GOAL 2:** To effectively communicate information through both scientific writing and oral presentations.

**GOAL 3:** To develop expertise in the discovery of new knowledge using the scientific method and the modern methods of laboratory science.

Modern research instrumentation available includes HPLC, GC-MS, FTIR, UV-VIS and fluorescence spectrophotometry, ultracentrifugation, and molecular modeling capabilities on an IBM RS-6000 workstation. The department and University facilities also include complete capabilities for light, fluorescence and electron microscopy with image analysis, the Molecular Research Core Facility (MRCF) located in Biological Sciences, NMR in Chemistry, and two cell culture facilities located in the College of Pharmacy.

Research activities at both the master’s and doctoral levels have focused on a number of major areas including: development of new delivery systems based upon liposomal pharmaceutics, cancer biology, regulation of cardiovascular and respiratory function, biochemical pharmacology and toxicology, immunology, signal transduction, new drug design and synthesis, biopharmaceutical analysis, molecular biology and infectious diseases.

Students enrolled in the Pharmaceutical Sciences emphasis areas of the Graduate Program are:

**M.S. Students**
- Charles Buerstatte, B.S.
- Narjes Sahlolbe, B.S.
- Susan Williamson, B.S.
- Qi Zhao M.D.

**Ph.D. Students**
- Lunawati Bennett, M.S.
- Renee Bunde, M.S.
- Souping Zhai, M.D.

The College’s graduate program offers the M.S. and Ph.D. degrees with study in two major focus areas: pharmacy administration and pharmaceutical sciences.
Continuing Education

Wendy Force, R.Ph.
Continuing Education Administrator / DUR Staff Pharmacist

The College of Pharmacy has continued to take an active role in providing continuing education (CE) to pharmacists in the State of Idaho.

As the complexity of providing pharmaceutical care has become more challenging, practicing pharmacists desire the expertise that our faculty provide to update their skills and continue to develop their own level of competency. As such, the College has continued to offer the following quality programs.

Live CE Programming

From July 1, 1996, to June 30, 1997, the College of Pharmacy faculty presented nine (9) programs for pharmacists in Idaho and other areas including:
- Chemical Dependence in the Health Professions: Chemical Dependence in the Profession of Pharmacy (Pocatello, Idaho)
- Clinically Relevant Drug Interactions - (Boise, Post Falls, Pocatello, Idaho)
- Idaho Panhandle Pharmacists Association - Diagnosing and Treating Depression in the Diabetic Population (Post Falls, Idaho)
- Joint Meeting of ISHP, ISPA, ISU College of Pharmacy (Boise, Idaho)
- Joint Military In-Service Educational Program (Dallas/Ft Worth, Texas)
- New Approaches for Treatment of Osteoporosis (Pocatello, Idaho)
- Northwest Pharmacist Recovery Network - Annual Meeting (SeaTac, Washington)
- Reimbursement for Cognitive Services (Boise, Pocatello, Idaho)

Generally, these programs were well attended. Overall, 740 pharmacists attended these programs, earning 9,569 hours of CE.

Home Correspondence Courses

The College of Pharmacy is committed to providing CE to pharmacists across the state. While a large portion of the Idaho population are located in the Boise area, the College recognizes the need to extend opportunities for pharmacists in rural areas to obtain CE credit. Over the past year the College offered ten (10) Pharmat courses. These programs allow the practitioner to increase their knowledge base while studying in their home at a pace that is participant guided. Each comprehensive program is developed by college faculty members nationwide and meets ACPE standards for content and quality. The following topics were available: depression, headache, hypertension, infectious disease, BPH/prostatitis, cardiac arrhythmias, myocardial infarction, Alzheimer’s disease, hormone replacement, diabetes, chemotherapy, hepatitis, asthma, anxiety disorders, sexually transmitted diseases, seizure disorders, pain management and a host of others.

Thirty pharmacists completed home correspondence programs receiving 336 hours of CE credit.

Additionally, the College has traditionally offered CE to students participating in the Non-Traditional Pharm.D. Program. Each course, developed by ISU faculty, uses videotapes, textbooks, and detailed workbooks to provide a comprehensive study of each area. Pharmacists from across the nation have received credit after successfully completing any of the 13 courses and three clerkships listed below.

Courses
- Clinical Chemistry
- Clinical Research Design and Analysis
- Clinical Pharmacokinetics
- Drug Information
- Immunology
- Pathogenic Microbiology
- Human Pathophysiology
- Physical Assessment
- Quality Assurance and Cost Containment
- Pathophysiology and Therapeutics I
- Pathophysiology and Therapeutics II
- Quality Assurance in Cost Containment
- Clinical Chemistry

Clerkships
- Ambulatory Care Clerkship
- Medicine Clerkship
- Pharmaceutical Care Clerkship
Three hundred ten (310) pharmacists completed these programs during 1996-97 receiving 5,040 hours of CE credit.

**Live, Home Correspondence and Nontraditional Programs Combined**

Over the past year the CE program has experienced a 7 fold increase (9,569 vs 1,341 in 1995-96) in live programming. Overall, 1,080 pharmacists completed live, home correspondence, or nontraditional CE programs totaling 14,945 hours of CE.

**Program Expansion**

This year our program has expanded to include program coordination, approval, and provision of CE programs for the Idaho State Pharmacy Association (ISPA). Additionally, the College was extensively involved with planning and certification of the Joint Meeting of the Idaho Society of Health-System Pharmacists and ISPA. Through contact with the Non-Traditional Program staff, our program was approached by the Armed Forces to administer their Combined Forces Pharmacy Seminar held annually. Lastly, the College was instrumental in bringing together the State Pharmacy Organizations, with pharmacists around the state, to form a CE Advisory Committee to offer direction and guidance for future CE programming in Idaho and elsewhere.

**Idaho Drug Information Service**

Jan Beckwith, Pharm.D  
Assistant Professor, ISU College of Pharmacy

The Idaho Drug Information Service (ID-DIS), directed by Jan Beckwith, Pharm.D, has two major functions. ID-DIS provides patient-related drug information to Idaho health professionals and provides drug information instruction to ISU College of Pharmacy students. During 1996-97, the service responded to an average of 7.26 information requests per working day. Time spent responding to calls averaged slightly over 40 minutes per request.

The ID-DIS is located in the Eli M. Oboler library, adjacent to the Idaho Health Sciences Library (IHSL), and has access to all library holdings as well as maintaining a small library of its own. The monograph and journal holdings of the ID-DIS are chosen to supplement the holdings of the IHSL. In 1996-97, ID-DIS maintained 20 current journal titles through either subscription or donation. All titles in the holdings are currently being cataloged.

In addition to journal subscriptions, 12 monographs or monograph renewals were purchased to update ID-DIS holdings. The ID-DIS maintains up-to-date electronic information through the purchase of Micromedex and International Pharmaceutical Abstracts and by utilizing other databases available through the Oboler Library or on the Internet. The ID-DIS is continuing to build extensive natural products/complementary medicine resource holdings, and the director has given several presentations state-wide on this topic.

The ID-DIS lab maintains four computers for student use. All of these have access to the Oboler Library and University databases. In the spring of 1997, one of these computers was upgraded and connected to the Internet through the College’s network server.

In 1995 the ID-DIS began publishing a quarterly newsletter, *Request & Response*, written by faculty and students. Newsletter articles are also included on the Drug Information Internet home page, which was developed in 1995. The home page includes an Internet e-mail address for direct requests to ID-DIS. Lack of personnel required suspension of newsletter publication for the 1996-97 year.

All first-year professional pharmacy students attend 15 hours of Drug Information lectures taught by the director in the fall and spend 40 hours in laboratory sessions, also taught by the director. The sessions are held in the drug information center every afternoon throughout the academic year. Approximately eight students annually complete six weeks of elective clerkship in the ID-DIS.

The director of the drug information service co-hosts a local weekly, one-half hour live, call-in radio show with a local physician.

Staffing for drug information consists of one full-time acting-director and one visiting professor (16 hours/week). A variety of graduate assistants provided 16 to 20 hours of support per week during the academic year, and a student is hired 20 hours per week from subscription funds for the summer months.
Graduation Highlights

The Class of 1997

The College of Pharmacy graduated the following students during spring commencement. Welcome, with us, these new graduates to the pharmacy profession.

**Doctor of Pharmacy**

*Traditional Pathway*

- Steven W. Albrecht
- Jared J. Alexander
- Kenny L. Alexander
- Kathleen R. Bingham
- John L. Bowie**
- Nicole L. Chopski
- Brian J. Christiansen
- Cindy L. Conces
- Darcie D. Daniels
- Rebecca S. Dinning
- Ping Du
- Lyn E. Dye
- Jeffery A. Faris
- Kristy L. Fordyce
- Douglas R. Fuchs
- Lisa L. Gregory
- Lauri Hansen
- Todd C. Hansen
- Gene M. Hines
- Andrea D. Hoadley
- Bing-Bing L. Huang
- Troy M. Jackman
- Bryan W. Jamison**
- Marc D. Johnston
- Scott W. Killian
- Mark Ladiges
- Kip D. Landon
- Laura L. Laney**
- Molly C. Long
- Chad H. Lowry
- Val McKinley
- James R. McNulty
- Badri Mojabi
- Bradford A. Nelson
- David E. Orth
- Chax B. Peterson*
- Mark T. Phillips
- Linda R. Pierce
- Cathleen V. Ramos
- London A. Reiber
- Shawna L. Renfro
- Nicki E. Reynolds
- Peggy A. Risi**
- Thomas R. Schafer
- Tracy N. Schneider
- Kartika Singpraseuth
- Bruce G. Spradlin
- Lynne Svedin
- Anthony J. Vaughn
- Scott R. Wood

*Nontraditional Pathway*

- Theodore P. Briski, Jr.
- Christine E. Chamberlain
- Corson T. Collet
- Philip L. Early
- William Florkowski
- Nancy M. Hecox
- Anne Marie Lux Hession
- Charles C. Nimmo*
- Mark W. Recker
- Robin L. Pucci**
- Steve M. Saber**
- Ellen Satriano
- Kim McCurry Stoakes
- Ramin A. Torabi
- Ann M. Vassey**
- Theodore W. Young

*Master of Science*

- Scott R. Wood

*Doctor of Philosophy*

- Sujit S. Sansgiry

**Graduating with High Honors

* Graduating with Honors

Special Recognition

John Tilley, R.Ph.,
Outstanding Professional Achievement Award Recipient

William M. Eames, R.Ph.,
Distinguished Service Award Recipient
College Recognizes Recent Graduates

The ISU College of Pharmacy graduated 67 Pharm.D. students in May and honored the following graduates for excellence at the commencement awards banquet.

Steve Albrecht, Minersville, UT, was awarded the Mylan Pharmaceuticals Excellence in Pharmacy Award in recognition of superior proficiency in the provision of drug information services.

John Bowie, Juneau, AK, was awarded the Facts and Comparison’s Award of Excellence in Clinical Communication for high academic achievement and outstanding clinical communication skills.

Lyn E. Dye, Blackfoot, ID, was awarded the Clifford E. Barnett Award in recognition of work as editor of the college’s student-produced publication, Refill.

Jeff Faris, Nampa, ID, received the Roche Pharmacy Communications Award in recognition of effective Pharmacist/Patient communications.

Kristy Fordyce, Pocatello, ID, was awarded the Pfizer Community Pharmacy Internship Award for excellence in the area of community pharmacy internship.

Lisa Gregory, Rupert, ID, received the American Pharmaceutical Association Academy of Students of Pharmacy (APhA-ASP) Mortar and Pestle Professionalism Award, sponsored by McNeil Consumer Products Company, for exceptional professionalism and excellence in patient care in all aspects of their academic pharmacy career and demonstrated commitment to the profession of pharmacy through involvement in professional organizations and other extracurricular learning opportunities.

Andrea Hoadley, Boise, ID, was recognized with the SmithKline Beecham Patient Care Award for superior professional achievement in clinical pharmacy practice and service, with emphasis in patient relations.

Badri Mojabi, Salt Lake City, UT, was presented an Award of Achievement for accomplishments in the face of great personal challenges.

Brad Nelson, Pocatello, ID, received the Perrigo Award of Excellence inNonprescription Medication Studies for professional services in regard to Nonprescription Medications.

Chax Petersen, Hayden Lake, ID, was awarded the College of Pharmacy Dean’s Award for superior academic excellence and the highest grade point average in pharmacy.

Mark Phillips, Parma, ID, was awarded the TEVA Pharmaceuticals Outstanding Student Award for recognition of excellence in the study of pharmacy.

Bruce Spradlin, Pocatello, ID, received the Idaho Society of Health-System Pharmacists Student Leadership Award for meritorious service and leadership. Bruce also received a Merck Award for scholastic achievement and development in pharmacy administration.

Molly Long, Santa Rose, CA, is one of several pharmacy graduates to receive an award of excellence from Dean Wells (r).
Student Organizations

College of Pharmacy
Student Senate

Clint Rohner - President
Michael Houle - Vice President
Brook Gehring - Secretary/Treasurer
ASISU Senator - Aehab El Madhoun
Faculty Advisor -
Virginia J. Galizia, Ph.D.

The governing body for the College of Pharmacy student body is the Student Senate. The Senate is comprised of the president and vice-president of each professional class, a representative of both graduate programs, the president of each student organization within the college, the editor of The Refill, and the ASISU pharmacy senator. The Senate facilitates communication between the students, pharmacy organizations, dean and faculty, and coordinates activities of the student organizations.

This year the Senate was instrumental in increasing participation in both university and community service projects: the annual food drive competition between the classes resulted in multiple cases of canned goods donated to the Salvation Army during the holidays; several students participated in Bannock Regional Medical Center’s “Cottages and Cranberries” fundraiser; ISU Healthfair booth; homecoming; Free Clinic; an all day diabetes information clinic; and several groups participated in a variety of health-related fundraisers.

American Society of Health-System Pharmacists (ASHP)

Liz Martindale, President
Rex Force, Pharm.D. - Faculty Advisor

During the 1996-97 school year, the ASHP student chapter sent 8 members to the annual Idaho Society of Health-System Pharmacists (ISHP) meeting in Sun Valley, ID. The overnight accommodations for this meeting were sponsored by the ISHP. In addition, two members attended the ASHP Annual Meeting in New Orleans. The ASHP student chapter sold copies of a laboratory text to raise funds. The group sponsored a presentation in the spring by Shawna Kitteridge, Pharm.D., on home health opportunities. The presentation was well received by both students and faculty. The chapter also partially funded and participated in pre-school and elementary school programs for National Poison Prevention Week.

The Academy of Students of Pharmacy (ASP)

Tracy Swenson - President
Rachel Crafts - Vice President
Jay Haener - Secretary/Treasurer
Faculty Advisor - Eric J. Jarvi, Ph.D.

The Academy of Students of Pharmacy (ASP) is open to all prepharmacy and professional pharmacy students. It is affiliated with the American Pharmaceutical Association (APhA) and its membership constitutes the largest pharmacy student organization within the College of Pharmacy. The organization fosters professional development through a number of activities.

The ASP again sponsored the 1996 Pharmacy Fair in October, where 19 companies came to campus to interview students and participate in the exhibit. The fair also included a continuing education program entitled “Current Trends in the Treatment of Osteoporosis” by Clarke St. Dennis, Ph.D., R.Ph.; followed by “Case Studies in Osteoporosis” by Jill Gronholz, D.O. Walgreens sponsored the Annual Dutch Oven Dinner, held in conjunction with Pharmacy Fair, which drew nearly 100 students, faculty and recruiters.

The Annual Spaghetti Feed/Auction was held in February 1997. Auctioned items ranged from a pan of baklava, yard work, and babysitting services to a fishing/float trip on the Snake River. Attendance and support was tremendous with the faculty preparing dinner for almost 200 people. Proceeds from the event go to help offset expenses associated with sending ASP students to regional and national meetings.

The regional ASP meeting in Seattle was attended by 13 students in November. Angie Meeker was elected as Midyear Regional Meeting Coordinator for 1997 and Michael Vancheri was elected as At-Large-Delegate for Region VII. Eight ASP students traveled to Los Angeles, CA, in March for the national APhA meeting. The annual Patient Counseling Competition was held in January, and Susan Wilson was selected to represent ISU at the national competition in Los Angeles.

Phi Delta Chi

Darvin Clement - President
Tracy Swenson - Vice President
Brian Stewart - Treasurer
Lynn Eskra - Correspondent
Kristi Fordyce - Alumni Liaison
Brook Gehring - Prelate
Faculty Co-Advisors -
Christopher K. Daniels, Ph.D.
Anna Ratka, Ph.D.

The year started out with 8 brothers of the Alpha Zeta chapter attending the Western Regional Conference held in Denver, CO, in March. They had an excellent experience and brought back some good ideas for strengthening the chapter. It was important to attend this conference as our chapter will be hosting the next one April 24-26, 1998. This meeting was most helpful in planning for the 1998 meeting.

The fraternity house had a full complement of renters during the 1996-97 academic year. The house continually seems to need to have some work done, but it has come a long way in the last four years.

The chapter placed a strong emphasis on community service including taking care of two miles of highway on I-15 south of Pocatello by the McCammon exit (look for our sign). The chapter sponsored the holiday food drive at the College of Pharmacy, which was a great success with an outstanding response from all the students. Faculty and staff at the college donated the food to the Salvation Army. Members continued to vol-
unteer at the Pocatello Free Clinic. As there is no pharmacist at the clinic, we take care of the pharmacy by organizing drugs, stocking shelves, and getting rid of outdates. Many of the physician volunteers ask our advise on drug therapy, so it's good experience for our volunteers and builds a good rapport between students and the physicians. Our members along with members from the student ISHP chapter were also involved in Poison Prevention Week at the local grade schools.

**Rho Chi**

Jenifer Lindstrom - President  
Faculty Advisor - Paul Cady, Ph.D.

Rho Chi is a national honorary society that recognizes academic excellence in pharmacy education. Students must maintain a GPA of 3.0 in all coursework and be in the top 20 percent of their class to be considered for membership.

In the fall, the chapter sponsored one of the best beginning-of-the-school year picnics ever at Ross Park. The burgers were flying and the volleyball games were intense. Spring initiation was held in April at the Harry Magnuson Alumni Center. Twelve new members were inducted into the honor society.

Additionally, Rho Chi sponsored the first annual College Halloween party, provided student tutoring, and published monthly newsletters advising students and faculty of upcoming events in the College of Pharmacy.

**Phi Lambda Sigma**

Tracy Swenson - President  
Darvin Clement - Vice President  
Susan Wilson - Secretary  
Faculty Advisor-  
Dana Diedrich, Ph.D.

Phi Lambda Sigma is the pharmacy leadership society that recognizes student leaders within the College of Pharmacy. Initiation was held on April 22 at the Magnuson Alumni House. New officers were elected, and 19 new members were inducted.

**National Community Pharmacists Association (NCPA)**

Michael Vancheri - President  
Marcy Anderson - Vice President  
Faculty Advisor -  
William T. Sharp, Ph.D.

The NARD national organization has changed its name to the National Community Pharmacists Association. Eight student members were active in the ISU student chapter during 1996-97.

In collaboration with ASHP and the College of Pharmacy Student Senate, NCAA members participated in Poison Prevention Week with activities including poster preparation and presentations to five area elementary schools. Nearly 500 elementary students participated. The project was spearheaded by Cathy Ramos, a fourth-year professional student.
Daniels: New Pharmaceutical Sciences Chair

Christopher K. Daniels, Ph.D., Associate Professor at the ISU College of Pharmacy, accepted the position of Chair of the Pharmaceutical Sciences Department for the College. Daniels has been vice chair for the department since 1991 and was appointed interim chair in 1996.

Daniels will oversee the department’s teaching, research, and service programs. He also teaches in the professional and graduate curriculums. As department chair, he is also responsible for faculty development and new faculty recruitment.

“The department is very fortunate to have an individual of Dr. Daniels’ caliber to serve at the helm,” said Barbara G. Wells, Pharm.D., Dean of Pharmacy. “Because of his background and experience, he is perfectly suited to provide the focused leadership and vision building that the department needs.”

Daniels earned a B.S. in chemistry from Humboldt State University and an M.S. in chemistry from the University of Wisconsin. He also holds a Ph.D. in pharmacology from Stanford University and has completed postdoctoral study in biochemistry and cell biology at the University of California.

“I’m looking forward to an exciting future for the Department of Pharmaceutical Sciences. We will be recruiting several new faculty over the next several years,” Daniels said. “My long-term goals for the department are to continue to grow in our research programs and strengthen our relationships with the other health-related professional and science departments across campus.”

Prior to coming to ISU, Daniels held numerous research-related positions including research assistant professor and investigator in the Liver Center and Intestinal Immunology Research Center at University of California, San Francisco. He joined ISU in 1988 as an Associate Professor of Pharmaceutical Sciences and Chief of the Immunopharmacology Research Laboratory at the Veterans Administration Medial Center in Boise.

Daniels’ current research interests focus on regulation factors and responses associated with aging including how extracellular matrix and growth factors/cytokines regulate differentiation, proliferation, and death of cells. He has published a number of papers related to aging and given numerous presentations at national and international conferences.

Daniels holds memberships in many professional organizations including the American Association of Colleges of Pharmacy, American Association for the Advancement of Science, American Society for Pharmacology and Experimental Therapeutics, and the Society for Mucosal Immunology. He has also received several awards including being a Gardner Premedical Scholar, USPHS Graduate Fellow, American Federation of Aging Research Fellow, and in 1990, was awarded status as an ISU Outstanding Researcher.

Daniels and his wife, Alice, have lived in Idaho for nine years. “ISU and Pocatello provide a wonderful environment in which to combine my passions for teaching and research with the ability to fish and enjoy the outdoor environment. I can’t imagine a better place to live and work than Idaho.” Daniels and his wife have a daughter, Sabrina, who also lives in Pocatello.

Galizia: New Associate Dean

Virginia J. Galizia, Ph.D., former Associate Dean and Clinical Professor at the College of Pharmacy and Allied Health Professions, St. John’s University, Jamaica, N.Y., joined the ISU College of Pharmacy during this reporting period as Associate Dean.

Galizia oversees the College’s Office of Student Affairs and teaches in the professional and graduate curriculums. As Associate Dean, she is responsible for coordinating pharmacy admissions, academic affairs, and student assessment programs.

“We are extremely lucky to have Dr. Galizia on board,” commented Dean Wells. “Through her vast experience at St. John’s, she brings with her the knowledge to step right into the job of Associate Dean and bring existing programs up to speed, while also incorporating new, innovative ideas.”

Galizia earned a B.S. in pharmacy and master’s in pharmacy administration at St. John’s University. She also holds a master’s in psychology from Queens College, Flushing, N.Y., and a doctorate in educational psychology from City University of New York, N.Y. She is a licensed pharmacist in the states of New York, New Jersey, and Arizona and plans to pursue licensure in Idaho.

At St. John’s, Galizia served in several positions, including Acting Dean, Associate Dean, Chair of the Department of Clinical Pharmacy Practice, and Director of Clinical Pharmacy Programs. Prior to working in higher education, she worked as a community pharmacist for seven years in Brooklyn, N.Y. She continued to work as a clinical pharmacy consultant or part-time community pharmacist throughout her teaching and administrative career.

“Staying in touch with the changing face of pharmacy has always been a priority for me,” Galizia said. “Being a practitioner has made me more effective as a faculty member in the classroom and more credible as a clinical faculty member in community pharmacy practice.”

Galizia’s research interests focus on topics such as patient communication and counseling, medication management among the elderly, cultural diversity in pharmacy practice, and smoking cessation. She has published a number of papers related to patient care and given numerous presentations at national conferences, medical centers, and senior citizen meetings. Her contact with patients has served as a foundation for pharmacy education.

“It has been very rewarding to be able to develop new curriculum and establish a role for faculty in community pharmacy. I have derived great personal satisfaction interacting with patients in practice and with students,” she said.

Galizia also enjoyed the opportunity to relocate to the intermountain west. “I was born and raised in New York, but I have always wanted to live in the Rockies after spending a brief time in Arizona. I am really looking forward to exploring Idaho,” she said.
1996-97 Contributors

The College of Pharmacy extends its greatest appreciation to the many alumni and friends that have contributed financially to the College. These donations directly support student needs, scholarships, computer and laboratory equipment, the Dean's Greatest Need Fund, and many other programs. The following gifts were received by the ISU Foundation (keeper of the official giving records) between July 1996 and June 1997*. Every effort has been made to ensure accuracy, but errors or omissions may have occurred. Please bring any such errors to the attention of the COP Program Development & Alumni Affairs Office at 208-236-3393.

*Some June gifts were officially recorded in July. These gifts will be reported during the next fiscal year.

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Faculty Honors
Teachers of the Year

Four faculty in the ISU College of Pharmacy were honored as 1996-97 Teachers of the Year at an end-of-the-year awards banquet.

Eric Jarvi, Ph.D., Associate Professor of Pharmaceutical Sciences; Judy Fontenelle, Ph.D., Professor of Pharmaceutical Sciences and Biochemistry; Rex Force, Pharm.D., Assistant Professor of Pharmaceutical Sciences and Administrative Sciences; and Roger Hefflinger, Pharm.D., Assistant Professor of Pharmacy Practice and Administrative Sciences, received awards at the College’s graduation honor banquet.

The four recipients were selected by pharmacy students for their outstanding abilities to teach relevant and new material, motivate students to learn, maintain a high level of knowledge in their field, and share their enthusiasm for the field of pharmacy. Each class in the four-year Doctor of Pharmacy program selected a Teacher of the Year.

Dr. Eric Jarvi is Associate Professor of Pharmaceutical Sciences and Director of the ISU/Boise Veterans Administration Medical Center Mass Spectrometry Laboratory. Jarvi was also a 1996-97 ISU Outstanding Public Service Award recipient. Jarvi teaches Clinical Chemistry, Pharmaceutics, and various graduate courses; he was selected by first-year pharmacy students.

A student nominating Jarvi wrote, “He has well organized presentations of material and a willingness to work with students both in and out of class.”

Jarvi received a B.S. in health care sciences from Southern Illinois University in 1979. He continued study to earn his M.S. in toxicology in 1981 and a Ph.D. in pharmacology/toxicology in 1985. His Mass Spectrometry Laboratory is tasked with supporting mass spectrometry applications for research programs across the ISU campus. One of his current research projects collaborates with private industry and uses fish red blood cells to measure DNA-protein crosslink formation as a measure of environmental pollution.

Judy Fontenelle, Ph.D., was selected by the second-year pharmacy students. Fontenelle, Professor of Pharmaceutical Sciences and Biochemistry, has previously been a Pharmacy Teacher of the Year, having won in 1987 and 1994. She has also received the “Most Influential Professor Award” for the 1992 Outstanding Student. Fontenelle has been with ISU since 1969, teaching Pharmacology, Drug Metabolism, and General Biochemistry for the College. Fontenelle’s national recognitions include being named in the Outstandng Educators of America, American Men and Women in Science, Who’s Who of American Women, the World Who’s Who of Women, and The Forum for the Advancement of Toxicology.

One of Fontenelle’s nominators said, “No one in this college is more concerned with students becoming drug experts! She maintains a current level of knowledge, relates relevant material effectively, and most importantly, motivates students.”

Fontenelle received a doctorate in biochemistry from Tulane University Medical School in 1967 and a B.S. in pharmacy from ISU in 1981. Sabbatical activities included being a Visiting Scientist for the Genetics Department of Southwest Foundation for Biomedical Research and a Tumor Biology Fellow for the Department of Biochemistry, College of Medicine, at the University of Iowa. One of Fontenelle’s research interests is the evaluation of constitutive and inducible antioxidant defense pathways of mammalian cells that are exposed to oxidizing agents and to UVA and UVB radiation damage.

Dr. Rex Force, a Pharmacy Practice clinical faculty member with the ISU Family Practice Residency Program, was selected as Teacher of the Year by third-year pharmacy students. Force teaches Infectious Diseases and Nutrition Therapeutics, Pharmaceutical Care, Pharmacotherapeutics for Physician Assistant Students, and supervises Medicine Clinical Clerkships. He also is a pharmacotherapy specialist for the Family Medicine Residency Program at ISU.

A student who nominated Force wrote, “Dr. Force is concerned for the student learning practical material as well as excelling in their academic performance. He is very organized, takes learning seriously, but also makes it fun and exciting for the student.”

Force received a bachelor of science in pharmacy from Oregon State University in 1988. He received his doctor of pharmacy from the University of Texas at Austin and the University of Texas Health Science Center in 1991. He completed a fellowship in infectious diseases pharmacotherapy at Ohio State University and the Wexner Institute for Pediatric Research in Columbus, Ohio, before joining ISU in 1993. He serves on numerous committees for ISU and pharmacy professional organizations, and his research interests focus on computer applications in health care, infectious disease pharmacotherapy, and the use of evidence-based medicine in family practice.

Dr. Roger Hefflinger, an Assistant Professor of Pharmacy Practice and Administrative Sciences, teaches a Primary Care Clerkship that combines ambulatory clinic services for the Family Practice Medical Center (FPMC) and inpatient clinical pharmacy services for the FPMC residents in Saint Alphonsus Hospital. At his clerkship site, he works to integrate the pharmacy students into multi-disciplinary health care teams. The physicians of FPMC appreciate the education and services provided by Dr. Hefflinger and the pharmacy students. Hefflinger was honored by the fourth-year pharmacy students.

A student completing a clinical rotation with Hefflinger wrote, “His enthusiasm for pharmacy is infectious. His enthusiasm and love for the field is contagious. He truly cares for his students and their progress.”

Hefflinger earned a doctor of pharmacy in 1986 from the University of Nebraska College of Pharmacy. He completed a clinical pharmacy residency with the University of Nebraska Medical Center in 1987 and joined the ISU faculty in the summer of that year. Hefflinger is a clinical faculty member for Boise State University Department of Respiratory Therapy and an affiliate faculty member for the University of Washington. Hefflinger has pursued research funding in the areas of ambulatory clinical trials and in educational methodology for existing pharmacy practitioners.
Alumni & Development

- A Good Year

It gives me great pleasure to thank those who contributed to the College financially during the 1996-97 fiscal year (July 1, 1996, through June 30, 1997).

This past year was one of transition at the College of Pharmacy as our Assistant to the Dean for Alumni Affairs and Program Development, Lesli Brassfield, had her second child and then accepted a position with ISU’s Family Medicine program. Lesli had been the College’s Assistant for 5 years and made a tremendous contribution to the College’s alumni giving program, largely through her implementation of the College’s phonathon fund raiser. In spite of the transition, the College’s friends and alumni remained loyal and generous in their dedication and financial support.

The College received over $111,000 in financial contributions during the 1996-97 fiscal year, an increase of more than 56 percent over the previous fiscal year. Of that amount, $30,000 in scholarships were endowed through the generous contributions of the Broyles and Orr families.

The College’s major fund raiser remained the pharmacy phonathon. The 1997 phonathon, held in March, resulted in more than $30,615 in pledged financial contributions, a 19 percent increase in support, much of which was received prior to July 1.

While our state funding provides a foundation necessary to operate a sound institution, state funding is clearly inadequate to meet technological and disciplinary needs. It is critical that these funds be supplemented through contributions if the many vital academic programs the College provides are to be enriched and remain current.

My sincerest appreciation on behalf of the College for your loyal interest and support.

- Dean Barbara G. Wells

Pharmacy Endowment

(as of June 1997)

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Frank Pucino, Jr., Pharm.D., National Institutes of Health Clinical Center
Gary K. Pullen, B.S., Prescription Center
Michele A. Pyeatte, Pharm.D., Kaiser Permanente
Brad Rassuchine, Pharm.D., TPN of Las Vegas, Inc.
Ed Reddish, B.S., Mallea-Reddish Pharmacy
Kenneth S. Reifman, B.S., Kaiser Permanente
Margaret L. Rice, B.S., Columbia Eastern Idaho Regional Medical Center
Kimberly Riley, Pharm.D., Kaiser Permanente
Marlis E. Risso, Pharm.D., Washoe Medical Center
Karen Robison, B.S., St. Luke’s Regional Medical Center
Joseph G. Rossi, Pharm.D., Morristown Memorial Hospital
Robert J. Ruggerio, Pharm.D., Mary Immaculate Hospital
Rajesh C. Sachdeo, M.D., Robert W. Johnson Medical School
Timothy Santos, B.S., Boise VA Medical Center
Dennis Sawyer, Pharm.D., Magic Valley Regional Center
Thomas R. Schafer, Pharm.D., Washoe Medical Center
Hershel D. Schaftel, Pharm.D., Kaiser Permanente
Philip L. Schiffman, M.D., Pulmonary & Intensive Care Specialist
Liesa F. Scott, Pharm.D., Naval Medical Center Pharmacy
R. Lynn Greenberg Seaman, B.S., Naval Medical Center
Christopher C. Shields, M.D., Family Practice Group
Y. Todd Shinoara, Pharm.D., San Diego, CA, Naval Medical Center
Gail L. Sieren, Pharm.D., U of NV Medical Center
Marilyn M. Silcock, Pharm.D., Bannock Regional Medical Center
Rod G. Simon, M.P.A., Boise VA Medical Center
Bob Smith, B.S., State Hospital South
Dave M. Smith, B.S., St. Alphonsus Regional Medical Center
Thomas B. Snow, B.S., Westgate Drug
Bruce Spradlin, Pharm.D., Pocatello Regional Medical Center
Michael D. Stander, Pharm.D., Washoe Medical Center
Mary E. Staples, Pharm.D., U of NV Medical Center
Dorsie Sullenger, B.S., Madison Memorial Hospital
Gregory M. Susla, Pharm.D., National Institute of Health
Frank L. Talboy, B.S., Boise VA Medical Center
Ronald D. Tapley, Pharm.D., Togus VA Medical Center
Cynthia Taylor, B.S., St. Alphonsus Regional Medical Center

Donna Taylor, B.S., Bannock Regional Medical Center
Susanne M. Thornley, Pharm.D., Reno VA Medical Center
Chester C. Thorson, Pharm.D., Columbia Eastern Idaho Regional Medical Center
Thomas J. Troshynski, Pharm.D., Fort Hall Indian Health Service
Carl D. Tunison, Jr., Pharm.D., Westgate Drug
Drew Voltura, Pharm.D., Bannock Regional Medical Center
John A. Warren, Pharm.D., Nevada Mental Health Institute
Mick Weiss, Pharm.D., Denver VA Medical Center
E. Ben Welch, Pharm.D., SW Oklahoma State University
Kirk C. Wentworth, B.S., Medicine Shoppe
Robert C. Wilkens, Pharm.D., Naval Medical Center
John A. Wiltse, B.S., St. Alphonsus Regional Medical Center
Jean Gale R. Woodman, M.D., Pocatello Children/Adolescent Clinic
Matthew J. Young, Pharm.D., Columbia Eastern Idaho Regional Medical Center

Emeritus Faculty
Franklin R. Cole, Ph.D., Professor of Pharmacognosy
Nevada Marie Higgins, Ph.D., Professor of Pharmacy
Ira W. Hillyard, Ph.D., Professor of Pharmacology

College Support Staff

Administrative Office
Lesli Brassfield, Assistant to the Dean, Alumni Affairs & Program Development
Ruth Briscoe, Business Manager
Rae Dahmer, Secretary to the Associate Dean
Jane Jarvi, Assistant to the Dean, Student Affairs
Mary Ann Stoll, Building, Equipment and Safety Coordinator
Cindy Walker, Secretary to the Dean

Department of Pharmaceutical Sciences
Rita Katsilometes, Secretary to the Chair and Faculty
Cindy Moore, Secretary (part time)

Department of Pharmacy Practice and Administrative Sciences
Barbara Arms, Secretary, Drug Utilization Review Program
Wendy Force, CE Coordinator and Research Associate, Drug Utilization Review Program
Kathy Moe, Secretary, Nontraditional Doctor of Pharmacy Program
Carolyn Morrill, Secretary, Boise Faculty
Angie Rathburn, Secretary, Nontraditional Doctor of Pharmacy Program
Beverly Sion, Secretary to the Chair and Pocatello Faculty
Dawn Wilson, Secretary, Nontraditional Doctor of Pharmacy Program
Appendix I
Department of Pharmacy Practice
and Administrative Sciences

A. Department Courses

Appendix I presents courses taught and notable accomplishments of Idaho State University’s College of Pharmacy Department of Pharmacy Practice and Administrative Sciences faculty during the 1997 fiscal year. These accomplishments are reported in the areas of peer-reviewed articles, books and chapters, service through professional, university, and college organizations, awards, and extramural funding. Accomplishments are listed by faculty member and/or lead faculty member when an accomplishment was part of a joint effort.

The following courses were taught, and reported to the University’s Office of Institutional Research, by the Department of Pharmacy Practice and Administrative Sciences during the 1996-1997 academic year.

PPRA 338 Drug Information/Medical Terminology J. Beckwith
PPRA 401 Current Topics in Pharmacy V. Galizia, R. Larson, B. Wells
PPRA 416 Social Behavioral Practice B. Adamcik
PPRA 418 Pharmacy Management w/Lab P. Cady, W. Sharp
PPRA 491 Topical Seminar in Pharmacy Practice & Administrative Sciences M. Cook
PPRA 501 Case Studies III P. Cady, V. Galizia, C. Heyneman, R. Larson, B. Phelan, R. Rhodes
PPRA 505 Externship W. Force
PPRA 518 Clinical Research & Design Analysis P. Cady
PPRA 519 Pharmacy Law W. Sharp
PPRA 521 Pharmaceutical Care I w/Lab B. Adamcik, V. Culbertson
PPRA 522 Pharmaceutical Care II w/Lab V. Culbertson, R. Force, T. Gould, C. Heyneman, B. Phelan
PPRA 534 Therapeutics I S. Hurley, S. Jue, K. Madaras-Kelly, R. Rhodes
PPRA 535 Therapeutics II R. Rhodes
PPRA 539 Quality Assurance and Cost Containment V. Culbertson
PPRA 540 Case Studies V. Culbertson, J. Erramouspe, S. Hurley
PPRA 543 Ambulatory Care Clerkship* P. Bartlome’, T. Gould, R. Hefflinger, B. Mason
PPRA 545 Pediatrics Clerkship* J. Erramouspe, S. Reitz
PPRA 546 Geriatrics Clerkship* S. Jue, R. Rhodes
PPRA 547 Mental Health Clerkship* M. Cook, S. Hurley
PPRA 548  Drug Information Clerkship*  J. Beckwith
PPRA 592  Independent Problems in Pharmacy Practice  K. Madaras-Kelly

* Includes PPRA 540, Case Studies, 1 semester credit

GRADUATE
PADM 538  Independent Problems in Pharmacy Practice & Administrative Sciences  B. Adamcik, P. Cady
PADM 601  Graduate Seminar  B. Adamcik, W. Sharp
PADM 605  Research Methods in Pharmacy Admin  B. Adamcik, P. Cady, V. Galizia, R. Larson
PADM 650  Thesis Research  P. Cady, R. Larson, W. Sharp
PADM 632  Medical Economics  W. Sharp
PADM 634  Advanced Pharmacy Administration I  P. Cady, R. Larson
PPRA 499  Special Topics - DUR  V. Culbertson
PPRA 530  Geriatric Pharmacy  B. Adamcik
PPRA 553  Professional Student Seminar  B. Mason, C. Heyneman, S. Jue, K. Madaras-Kelly, S. Reitz
PPRA 563  Advanced Parenteral Products  A. Ratka
PPRA 583  Special Populations Clerkship  S. Reitz
PPRA 596  Pharmacy Residency  B. Mason, S. Jue
PPRA 618  Clinical Research and Design Analysis  P. Cady, Coordinator
PSCI 698  Dissertation Research  B. Adamcik, P. Cady, W. Sharp
PSCI 699  Dissertation  B. Adamcik, P. Cady, W. Sharp

B. Peer-Reviewed Articles


Sansgiry S, Cady P. How Elderly and Young Adults Differ in the Decision Making Process of Nonprescription Medication Purchases, Health Marketing Quarterly 14: (1) 3-21, 1996.


Erramouspe J. Buffering Local Anesthetic Solutions with Sodium Bicarbonate: Literature Review and Commentary, Hospital Pharmacy 31:1275-1282, 1996.


C. Book & Book Chapters


D. Presentations


Adamcik B. Discrimination against Patients with Psychiatric Illnesses by Third-Party Payers and Managed Care: Is This Ethical? AACP Annual Meeting, Ethics SIG, Reno, NV, July 17, 1996.

Adamcik B. Hey, We Get No Respect Around Here! AACP Annual Meeting, SAS Section Program, Reno, NV, July 15, 1996.


Beckwith J. Drug Interactions References and Software. Annual Spring Continuing Education Program for ISU, Pocatello, ID, April 20, 1997.

Beckwith J. Herbal Interactions. Annual Spring Continuing Education Program for ISU, Boise, ID, April 6, 1997.

Beckwith J. Drug Interactions References and Software. Annual Spring Continuing Education Program for ISU, Boise, ID, April 6, 1997.


Erramouspe J. Medications in Schools and Daycares (Ritalin and Other Attention Deficit Hyperactivity Disorder Medications). Idaho Conference on Health Care, Pocatello, ID, October 10, 1996.

Erramouspe J. Pediatric Issues (immunizations, ear infections, attention deficit hyperactivity disorder). Office of the President (ISU) series, KWIK Radio, Pocatello, ID, July 29, 1996.


Galizia V. The Profession of Pharmacy and Preparing for Professional School. Pre-health professions class, Ricks College, Rexburg, ID, December 6, 1996.

Galizia V. College of Pharmacy Programs. Office of the President (ISU) series, KWIK Radio, Pocatello, ID, October 21, 1996.


Hefflinger R. ACLS Pharmacology II. Canyon County Paramedics, January 8, 1997.


Larson R. Pharmaceutical Care. CE presentation at Eastern Idaho Regional Medical Center Department of Pharmacy, Idaho Falls, ID, September 25, 1996.


Wells B. Negotiating with the Chair or Dean. AACP, Women’s SIG Meeting, Reno, NV, July 16, 1996.

Wells B. Advances in Treatment of Bipolar Disorder. Utah Society of Hospital Pharmacists and University of Utah Neuropsychiatric Institute, Salt Lake City, UT, October 29, 1996.

E. Service

Professional Organizations
Our faculty hold active memberships in the following local, state, and national professional organizations. Positions above general membership are noted.

Adamcik B
American Association of Colleges of Pharmacy
Academic Sections Coordinating Counsel
Faculty Affairs Committee, Council of Faculties
Membership Committee, Women’s SIG, Chair
Social & Administrative Sciences Section, Chair
American Society on Aging
American Sociological Association
Gerontological Society of America
Idaho Society of Health-System Pharmacists
Idaho State Pharmacy Association
Idaho State University Professional Women’s Association
Phi Lambda Sigma
Pocatello Medical Ethics Committee (joint PRMC and BRMC committee)
Rho Chi Society

Beckwith J
American Association of Colleges of Pharmacy
American Pharmaceutical Association
American Public Health Association
American Society of Health-System Pharmacists
American Society of Pharmacy Law
Idaho Health Information Association
Idaho Society of Health-System Pharmacists
Annual Awards, reviewer
Cancer Pain Initiative, organizational committee
Education Committee
Idaho State Pharmacy Association
Southeastern Idaho Pharmacy Association, delegate ISPA

Cady P
American Pharmaceutical Association

Southeastern Idaho Pharmacy Association

Culbertson V
American Association of Colleges of Pharmacy
American Pharmaceutical Association
American Society of Health-System Pharmacists
Idaho Society of Health-System Pharmacists
Idaho State Pharmacy Association
Idaho State Pharmacy Association and Idaho Society of Health-System Pharmacists Collaboration Committee (Ad hoc), Chair

Erramouspe J
American Society of Health-System Pharmacists
Pediatric Pharmacy Advocacy Group, Inc.
Southeastern Idaho Pharmacy Association

Force R
Ambulatory Care Practice and Research Network, Web Site Developer
American Association of Colleges of Pharmacy
American College of Clinical Pharmacy
Board Certification Affairs Committee, Chair
Working Group on Evidence-Based Medicine
American Society of Health-System Pharmacists
American Society for Microbiology
Board of Pharmaceutical Specialties Council on Pharmacotherapy, Primary Care Item Writing Panel
College of Pharmacy and Pfizer, Inc., Chair
Fax CE, University of Illinois at Chicago Editorial Board
Idaho Immunization Advisory Task Force
Idaho Society of Health-System Pharmacists
Immunized-By-Two Coalition-Record Keeping Work Group, Vice Chair
North American Primary Care Research Group
Retired Senior Volunteer Program (RSVP) Medication Education Program
Society of Teachers of Family Medicine

Galizia V
American Association of Colleges of Pharmacy
American Educational Research Association
American Pharmaceutical Association
American Psychological Association
American Society of Consultant Pharmacists
American Society of Pharmacy Law
International Academy of Compounding Pharmacists
Golden Key National Honor Society
Lambda Kappa Sigma
National Community Pharmacists Association
Phi Lambda Sigma 
Rho Chi Society

**Gould T**
- American Association of Colleges of Pharmacy
- American College of Clinical Pharmacy
- American Diabetes Association
- American Society of Health-System Pharmacists
- Southeastern Idaho Pharmacy Association
- Idaho Society of Health-System Pharmacists
- Phi Lambda Sigma
- Rho Chi Society

**Hefflinger R**
- American Pharmaceutical Association
- Capital Pharmacists Association
- Healthwise, Advisory Board
- Idaho Coalition for Cancer Pain Relief
- Idaho Society of Health-System Pharmacists
- Pharmaceutical Care Ad Hoc Committee
- Interventional Rehabilitation Services, medication management of chronic and acute pain patients

**Heyneman C**
- American Association of Colleges of Pharmacy
- American Society of Consultant Pharmacists
- American Society of Health-System Pharmacists
- Idaho Society of Health-System Pharmacists

**Hurley S**
- Southeastern Idaho Pharmacy Association

**Jue S**
- American Chinese Pharmaceutical Association
- American Society of Clinical Pharmacology and Therapeutics
- American Society of Health-System Pharmacists
- Foundation Fellowships Program Selection Committee
- Section of Clinical Specialists
- Capital Pharmaceutical Association
- Idaho Society of Health-System Pharmacists
- Idaho State Pharmaceutical Association

**Larson R**
- American Association of Colleges of Pharmacy
- Computer Technology Committee
- American Pharmaceutical Association
- Idaho State Pharmacy Association

**Madaras-Kelly K**
- American College of Clinical Pharmacy

**American Society of Microbiology**
- Society of Infectious Diseases Pharmacists
- State of Idaho Dept. of Health and Welfare - Idaho AIDS Drug Assistance Program, Advisory Committee

**Mason B**
- American Association of Colleges of Pharmacy
- American Association of Diabetes Educators
- American Society of Health-System Pharmacists
- Idaho Society of Health-System Pharmacists
- Rho Chi Society
- Snake River Association of Diabetes Educators
- Education Planning Committee
- South Dakota Pharmaceutical Association

**Phelan B**
- American Association of Colleges of Pharmacy
- COF Faculty Scholarship Committee
- American Society of Health-System Pharmacists
- CibaGeneva National Speaker’s Bureau, Speaker
- Pharmacy Technician Educators Council, Vice President
- Southeastern Idaho Pharmacy Association, President

**Reitz S**
- American College of Clinical Pharmacy
- Committee on Board Certification Affairs
- Pediatric Practice and Research Network
- Planning Committee for Pediatric CE at Fall 1998 Annual Meeting
- American Society of Health-System Pharmacists
- Idaho Society of Health-System Pharmacists
- Organizational Affairs, Chair
- Kappa Epsilon
- Rho Chi Society

**Rhodes R**
- American Society of Health-System Pharmacists

**Sharp W**
- American Association of Colleges of Pharmacy
- American Pharmaceutical Association
- American Society of Pharmacy Law
- Rho Chi Society
- Southeast Idaho Pharmacy Association

**Wells B**
- American Association of Colleges of Pharmacy
- Council of Deans, Chair-elect-designate
- Sharing of Electronic-Based Educational Resources
- Task Force
American College of Clinical Pharmacy
    Board of Regents
    Central Nervous System Practice and Research
    Educational Affairs Committee, Board Liaison
    Network, Board Liaison
American Pharmaceutical Association
    Activity Classification Project, Panel Reviewer
American Public Health Association
    Board of Pharmaceutical Specialties
    Specialty Council on Psychiatric Pharmacy Practice
Idaho Academy of Pharmaceutical Care Practitioners
    Advisory Board
Idaho Drug Utilization Review Board, Secretary
Idaho Society of Health-System Pharmacists
Idaho State Pharmacy Association
Memphis Area Pharmacists Society
Mid-South College of Clinical Pharmacy
Phi Lambda Sigma, Theta Chapter
Rho Chi Society, Alpha Nu Chapter
Southeastern Idaho Pharmacy Association
Tennessee Pharmacists Association
Tennessee Society of Hospital Pharmacists

**ISU Committee Service**

Our faculty participate in planning, problem solving, and policy determination through participation on University committees. Positions above general membership are noted.

**Adamcik B**
- Commencement Committee
- Faculty Research Committee, Chair
- Faculty Senate, College of Pharmacy Department Representative
- Geriatric Health Care and Gerontology Program Planning SIG
- Goal 8 (Philosophy) Evaluation Committee
- Outstanding Researcher of the Year Committee
- Professional Women’s Association Board of Directors
- Research Coordinating Council, FRC Representative
- University Research Committee, FRC Representative

**Beckwith J**
- Idaho Health Sciences Library Advisory Committee
- Oboler Library Reference Resource Committee
- University Library Committee

**Force R**
- Residency Coordinator Search Committee,

**Department of Family Medicine**

**Galizia V**
- Council for Teaching and Learning
- Library Instruction Committee

**Heyneman C**
- Search Committee for ASISU/BabyU Positions

**Hurley S**
- General Education Requirements Committee
- Library Systems Committee

**Larson R**
- Curriculum Council
- Faculty Senate
- Intellectual Property Rights Subcommittee, Chair
- Sabbatical Subcommittee
- Health Conference Planning Committee
- Human Subjects Committee

**Mason B**
- ISU Distinguished Public Service Awards Committee

**Wells B**
- Dean’s Council
- Due Process Grievance Committee, Chair
- Search Committee for Dean of Graduate Studies
- Technology Oversight Council
- University Research Committee

**College of Pharmacy Committee Service**

College of Pharmacy Committee service includes the following participants. Positions beyond general membership are noted.

**Adamcik B**
- Assessment Committee
- Building Committee
- Faculty Affairs Committee
- Graduate Education and Faculty Research Affairs Committee, Co-Chair

**Beckwith J**
- Assessment Committee

**Cady P**
- Accreditation Self-Study Curriculum Subcommittee, Chair
- Assessment Committee
- Technology Committee, Chair
Culbertson V
Administrative Council
Graduate Education and Faculty Research Committee, Ex-Officio
Student Affairs Committee, Ex-Officio

Erramouspe J
Faculty Affairs Committee
Nontraditional Pharm.D. Policy & Procedures Committee

Galizia V
Accreditation Self-Study Organization and Administration Subcommittee
Accreditation Self-Study Steering Committee
Accreditation Self-Study Student Affairs Subcommittee, Chair
Administrative Council
Admissions Subcommittee, Student Affairs
Awards Subcommittee, Student Affairs
Continuing Education Advisory Committee
Curricular Affairs Committee, Ex-Officio
Progressions Subcommittee, Student Affairs, Chair
Scholarship Subcommittee, Student Affairs, Chair
Search Committee for Assistant to the Dean Position
Student Affairs Committee, Chair
Technology Committee

Gould T
Accreditation Self-Study Curriculum and Degrees Subcommittee
Building Committee

Hefflinger R
AACP Self Study
Adult Medicine Position Search Committee
Curricular Affairs Committee
Psychiatric Faculty Position Search Committee VA Boise, Chair

Heyneman C
Curricular Affairs Committee
Internal Medicine Position Selection Committee
Nontraditional Pharm.D. Program Policies and Procedures Committee
Nontraditional Program Admissions Committee

Hurley S
Accreditation Self-Study Experimentation and Evaluation Subcommittee
Technology Committee

Jue S
Graduate Education and Faculty Research Affairs Committee
Search Committee, Medicine Faculty
Technology Committee

Larson R
Accreditation Self-Study Subcommittee
Curriculum Affairs Committee
Faculty Affairs Committee
Faculty Affairs Committee Promotion and Tenure Subcommittee

Madaras-Kelly K
Adult Medicine Faculty Search Committee, Chair
Curricular Affairs Committee

Mason B
Graduate Education and Faculty Research Affairs Committee
Outcomes Assessment Committee
Psychiatry Faculty Search Committee

Phelan B
Accreditation Self-Study Subcommittee
Graduate Education and Faculty Research Affairs Committee
Internal Medicine Faculty Search Committee
Nontraditional Pharm.D. Program Admissions Committee, Chair
Nontraditional Pharm.D. Program Advisory Committee, Chair
Student Writing Competencies Committee
Technology Committee

Reitz S
Accreditation Self-Study Comprehensive Summary Subcommittee
Adult Medicine Faculty Search Committee, Chair
Faculty Affairs Committee

Rhodes R
Student Affairs Committee

Sharp W
Nontraditional Pharm.D. Program Admissions Committee
Student Affairs Committee
Admissions Subcommittee
Progressions Subcommittee
Wells B
Accreditation Finance and Administrative Self-Study Subcommittee, Chair
Administrative Council, Chair
Search Committee for Assistant to the Dean, Chair

F. Honors & Awards

Our faculty received the following honors and awards during the reporting period.

Adamcik B
AACP 1997 Lyman Award, Nominee
International Who’s Who, 1997, Listed
Master Teacher Award, Idaho State University

Force R
College of Pharmacy Teacher-of-the-Year, Class of 1998

Galizia V
Inducted into Phi Lambda Sigma, Alpha Alpha Chapter

Gould T
Inducted into Phi Lambda Sigma, Alpha Alpha Chapter

Hefflinger R
College of Pharmacy Teacher-of-the-Year, Class of 1997

Madaras-Kelly K
Society of Infectious Diseases Pharmacists, Outstanding Young Investigator Award

Mason B
American Society of Health-System Pharmacists, Fellow, Nominee

Phelan B
Idaho Vocational Technical Education Award (excellence in pharmacy technician training)
Phi Delta Chi, local chapter, 1997 Outstanding Pharmacist and Alumnus
Phi Delta Chi National Prescott Award, ISU nominee

Reitz S
1st Place Poster Award: Nathan GA & Reitz SJ. Pediatric Patient-Focused Care: A Look to the Future. ISHP Annual Fall Meeting, Sun Valley, ID, September 1996.
Employee Recognition Award, St. Luke’s Regional Medical Center, January 1997

Wells B
American Association of Colleges of Pharmacy, Elected Chair-elect, Council of Deans
American Pharmaceutical Association
Clinical Pharmacotherapeutic Practice Award

G. Research Grants

The following extramural funding was acquired during fiscal year ’97 for research and training.

Adamcik B and Heyneman C. Empowering Consumers to Become Active Participants in the Pharmacist-Patient Consultation Process, Idaho State University Faculty Research Committee, $4251 ($2795 direct control), December 1996.


Force R. ALLHA T Supplemental Funding for Study Coordinator, National Institutes of Health/National Heart, Lung and Blood Institute, $4,875, May 1997.


Force R. ALLHA T: Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial, National Institutes of Health/National Heart, Lung and Blood Institute, $17,000, August 1996.


Hefflinger R. Clinical Pharmacist, Family Practice Medical Center, $35,016, July 1996.


Madaras-Kelly K. A Pharmacodynamic Comparison of Trovafloxacin, Ciprofloxacin, Cefazolin, and Vancomycin against Skin and Soft Tissue Pathogens, Pfizer Inc., $38,975 ($38,975 direct control) September 1996.

Mason B. Development and Implementation of a Structured Pharmaceutical Care Approach to the Management of Ambulatory Care Patients with Hyperlipidemia, University of Tennessee, $8,000, April 1996.

Mason B. Ambulatory Care Residency PRIME Grant, Veterans Affairs Medical Center, $53,000, July 1996.

Mason B and Jue S. Implementation of Pharmaceutical Care in Veterans Affairs Medical Centers Utilizing Managed Care Principles, University of Colorado Health Sciences Center, Denver, Colorado, $8,000 ($8,000 direct control), October 1996.

Mason B and Jue S. Implementation of Pharmaceutical Care in Veterans Affairs Medical Center Utilizing Managed Care Principles, University of Colorado, $25,000, July 1996.

Mason B and Saletnik B. Improved Health and Wellness Outcomes Through Pharmaceutical Care Focused on the Visually Impaired Patient, Bristol Meyer Squibb, $2,000, March 1997.

Rhodes R. Veterans Administration Nursing Home Service Contract Grant, #209-068-59, $39,445.00, July 1, 1996.
Appendix II
Department of Pharmaceutical Sciences

A. DEPARTMENT COURSES

Appendix II presents courses taught and notable accomplishments of Idaho State University’s College of Pharmacy Department of Pharmaceutical Sciences faculty during the Fiscal 1997 year. These accomplishments are reported in the areas of peer-reviewed articles, books and chapters, service through professional, university, and college organizations, awards, and extramural funding. Accomplishments are listed by faculty member and/or lead faculty member when an accomplishment was part of a joint effort.

The following courses were taught, and reported to the University’s Office of Institutional Research, by the Department of Pharmaceutical Sciences faculty during the 1996-97 academic year.

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>Professional</th>
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</thead>
<tbody>
<tr>
<td>PHAR 205 Drugs in Society</td>
<td>C. Nelson</td>
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<tr>
<td>PHAR 299 Introduction to Pharmacy</td>
<td>J. Beckwith, A. Ratka</td>
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<tr>
<td>PHAR 314 Basic &amp; Applied Pharmacology</td>
<td>D. Diedrich, J. Fontenelle</td>
</tr>
<tr>
<td>PHAR 316 Essentials of Pharmacology</td>
<td>J. Fontenelle, C. Nelson</td>
</tr>
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<td>PHAR 317 Drug Therapy</td>
<td>J. Fontenelle, C. Nelson, T. LaHann</td>
</tr>
<tr>
<td>PHAR 318 Basic &amp; Applied Pharmacology (for Physical Therapy)</td>
<td>T. LaHann</td>
</tr>
<tr>
<td>PHAR 645 Pharmacotherapeutics for Nurse Practitioners</td>
<td>V. Culbertson, C. Daniels, R. Force, K. Madaras-Kelly, B. Phelan</td>
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<td>PROFESSIONAL</td>
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</tr>
<tr>
<td>PSCI 401 Case Studies In Pharmacy I</td>
<td>J. Lai/coordinator, C. Daniels, D. Diedrich, J. Fontenelle, E. Jarvi, T. LaHann, C. Mobley, C. Nelson</td>
</tr>
<tr>
<td>PSCI 402 Case Studies In Pharmacy II</td>
<td>J. Lai/coordinator, C. Daniels, D. Diedrich, J. Fontenelle, E. Jarvi, T. LaHann, C. Mobley, C. Wilson</td>
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<tr>
<td>PSCI 423 Pharmaceutics I</td>
<td>R. Goettsch, C. Mobley, A. Ratka</td>
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<td>PSCI 424 Pharmaceutics II</td>
<td>R. Goettsch, C. Mobley, A. Ratka</td>
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<td>PSCI 424L Pharmaceutics II Lab</td>
<td>R. Goettsch</td>
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<td>PSCI 425 Pharmaceutics III</td>
<td>C. Mobley, R. Goettsch</td>
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<td>PSCI 425L Pharmaceutics III Lab</td>
<td>R. Goettsch</td>
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<td>PSCI 455 Medicinal Chemistry I</td>
<td>E. Isaacson</td>
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<tr>
<td>PSCI 456 Medicinal Chemistry II</td>
<td>E. Isaacson</td>
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<td>PSCI 457 Clinical Chemistry</td>
<td>E. Jarvi</td>
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<td>PSCI 465 Pharmacology I</td>
<td>C. Daniels, D. Diedrich, C. Wilson</td>
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<td>PSCI 466 Pharmacology II</td>
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<td>PSCI 467 Pharmacology III</td>
<td>C. Daniels, J. Fontenelle</td>
</tr>
<tr>
<td>PSCI 499 Spec. Topics in Medicinal Chemistry</td>
<td>E. Isaacson</td>
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<tr>
<td>PSCI 502 Case Studies</td>
<td>E. Jarvi</td>
</tr>
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<td>PSCI 515 P’col Basis of Cancer Chemotherapy</td>
<td>J. Fontenelle</td>
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<tr>
<td>PSCI 521 Dermatologicals</td>
<td>R. Goettsch</td>
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<td>PSCI 529 Clinical Pharmacokinetics</td>
<td>D. Sawyer</td>
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<td>PSCI 537 Professional Student Seminar</td>
<td>D. Diedrich</td>
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<td>PSCI 538 Independent Problems</td>
<td>A. Ratka</td>
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<td>PSCI 568 Toxicology</td>
<td>T. LaHann</td>
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### GRADUATE

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
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<tbody>
<tr>
<td>PSCI 523</td>
<td>Pharmaceutics I</td>
<td>R. Goettsch, C. Mobley, A. Ratka</td>
</tr>
<tr>
<td>PSCI 565</td>
<td>Pharmacology I</td>
<td>C. Daniels, D. Diedrich, C. Wilson</td>
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<tr>
<td>PSCI 566</td>
<td>Pharmacology II</td>
<td>T. LaHann, C. Wilson</td>
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<tr>
<td>PSCI 567</td>
<td>Pharmacology III</td>
<td>C. Daniels, J. Fontenelle</td>
</tr>
<tr>
<td>PSCI 582</td>
<td>Independent Problems in Pharmaceutical Sciences</td>
<td>C. Daniels</td>
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<td>PSCI 601</td>
<td>Graduate Seminar in Pharmaceutical Sciences</td>
<td>C. Mobley</td>
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<td>PSCI 603</td>
<td>Scientific Writing</td>
<td>J. Lai</td>
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<td>PSCI 605</td>
<td>Prin. Instrumental Techniques</td>
<td>E. Jarvi</td>
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<td>PSCI 606</td>
<td>Selected Techniques in Laboratory</td>
<td>E. Jarvi, J. Lai, A. Ratka</td>
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<td>PSCI 607</td>
<td>Research Foundation in PSCI</td>
<td>C. Daniels, E. Jarvi</td>
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<td>PSCI 621</td>
<td>Mechanics of Chemical Action</td>
<td>J. Lai, E. Jarvi</td>
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<td>PSCI 622</td>
<td>Principles of Toxicology</td>
<td>J. Lai, E. Jarvi</td>
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<td>Thesis Research</td>
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<td>Biopharmaceutical Analysis</td>
<td>E. Jarvi</td>
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<td>Biopharmaceutical Analysis Lab</td>
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<td>Biopharmaceutical Analysis II</td>
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<td>Mechanisms of Drug Action</td>
<td>C. Daniels, J. Lai</td>
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<td>PSCI 698</td>
<td>Dissertation Research</td>
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<td>PSCI 699</td>
<td>Dissertation</td>
<td>R. Vestal</td>
</tr>
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### B. Journal Articles


### C. Book & Book Chapters


D. Presentations

Irvin BJ, Luce C, Smith LH, Daniels C. Regulation of IL6-Dependent Cell Proliferation by Cyclic AMP in the 7TD1 B Cell Hybridoma. 6th International Congress on Cell Biology/36th American Society for Cell Biology Annual Meeting, San Francisco, CA, December 7-11, 1996.


LaHann T. Carlson K, Myler T, Bauer WF. Boron Excretion Following Repeat Dose Administration of Borocaptate Sodium to Rats. Seventh International Symposium on Neutron Capture Therapy for Cancer, Zurich, Switzerland, September 1996.


LaHann T. Pharmacologic Options in the Management of Tumors of the Central Nervous System, Symposium: Malignant Tumors of the Central Nervous System, Continuing Education Program, Mercy Hospital and Wilkes University, Wilkes-Barre, PA, October 1996.

LaHann T. BNCT: A Novel Therapy for Brain Cancer. College of Pharmacy, Wilkes University, Wilkes-Barre, PA, October 1996.

LaHann T. What is this Thing Called Cancer? Idaho State University Elderhostel: Pharmacology from Herbal to Nuclear Age Medicine, Pocatello, ID, September 1996.


E. Service

Professional Organizations
Our faculty hold active memberships in the following local, state, and national professional organizations. Positions above general membership are noted.

Daniels C
American Association for the Advancement of Science
American Association of Colleges of Pharmacy
American Society for Pharmacology and Experimental Therapeutics
Idaho/Montana Affiliate, American Heart Association Research Committee
Mountain States Medical Research Institute Research Committee
Sigma Xi, The Research Society, ISU Chapter, Secretary/Treasurer
Society for Experimental Biology and Medicine
Society for Mucosal Immunology

Diedrich D
American Association for the Advancement of Biotechnology
American Society for Microbiology

Fontenelle J
American Society for Pharmacology and Experimental Therapeutics
New York Academy of Science
Phi Kappa Phi  
Rho Chi Society  
Sigma Xi  

Goettsch R  
American Association of Pharmaceutical Scientists  
American Pharmaceutical Association  

Issacson E  
American Chemical Society  
Eastern Idaho Chapter  
Medicinal Chemistry Division  
Kappa Psi  
Phi Delta Chi  
Phi Kappa Delta  
Phi Lambda Upsilon  
Rho Chi Society  
United States Pharmacopoea, Faculty Representative  

Jarvi E  
American Association of Colleges of Pharmacy  
American Association of Pharmaceutical Scientists  
American Chemical Society  
American Pharmaceutical Association  
American Society for Mass Spectrometry  
Association of Official Analytical Chemists  
Rho Chi Society  
Sigma Xi  
Society for Experimental Biology and Medicine  
Southeastern Idaho Pharmacists Association  

LaHann T  
American Association for the Advancement of Science  
American Association of Colleges of Pharmacy  
New Investigator Grant Program, Reviewer  
American Heart Association  
International Society for Neutron Capture Therapy  
Society for the Neurosciences  
Western Pharmacology Society  

Lai J  
American Society for Neurochemistry  
American Society for Pharmacology and Experimental Therapeutics  
International Society for Neurochemistry  
Organizing and Program Committee, the 4th International Conference on Brain Energy Metabolism  
Rho Chi Society  
Sigma Xi  

Mobley C  
American Association of Colleges of Pharmacy  
American Association of Pharmaceutical Scientists  
Kappa Psi  
Rho Chi  

Nelson C  
American Association for the Advancement of Science  
American Association of Colleges of Pharmacy  
American Society for Neurochemistry  
Behavioral Toxicology Society  
Bioelectromagnetics Society  
Western Pharmacology Society  

Ratka A  
American Association for the Advancement of Science  
American Association of Colleges of Pharmacy, Delegate  
American Association of Pharmaceutical Scientists  
American Pharmaceutical Association  
Idaho Academy of Sciences  
Idaho Coalition for Cancer Pain Relief, Founder and President  
Idaho Society for Health-System Pharmacists  
International Brain Research Organization  
Society for Neuroscience  
Southeastern Idaho Pharmacy Association  
Sigma Xi  

Wilson C  
American Association for the Advancement of Science  
American Association of Colleges of Pharmacy  
American Society for Neurochemistry  
American Society for Pharmacology and Experimental Therapeutics  
International Society for Neurochemistry  
Rho Chi Society  
Sigma Xi  

ISU Committee Service  
Our faculty participate in planning, problem solving, and policy determination through participation on University committees. Positions above general membership are noted.  

Diedrich D  
ISU Biosafety Committee  

Fontenelle J  
Health Professions Advisory Committee  
University Honors Program  

Jarvi E  
Animal Welfare Committee  
Faculty Senate  
Idaho Science Teacher Association  
ISU Council for Teaching and Learning  
Research Coordinating Council
LaHann T
Faculty Professional Policies Council
Non-Pharmacy Graduate Committee, Graduate School Representative
Research Coordinating Council

Lai J
Asian Student Association, Advisor
Beyond Testing and Grading
Chinese Student Association, Advisor
Dean of Graduate Studies Search Committee
Graduate Council
Hazardous Waste Management Council
Joint Biology Research Group
Molecular Biology Core Facility
Promotion Committee of Dr. Solomon Leung (College of Engineering)
Promotion and Tenure Committee of Dr. Jane Chang (Mathematics Department)
Research Coordinating Council
Speakers and Artists Committee

Mobley C
General Collection and Government Documents Committee
ISU Academic Standards Council

Nelson C
Idaho State University Federal Credit Union, Board of Directors
Oral examination for M.S. candidate in Special Education, Graduate Faculty Representative

Ratka A
Biosafety Committee
Faculty Advisory Group to the President Faculty Research Committee
General Collection Library Committee
Graduate Council
Graduate Faculty at Idaho State University
Radiation Safety Committee
Student Support Services (TRIO) University Library Committee

Wilson C
Basic Science Research Advisory Group
Faculty Professional Policies Council (ISU Senate subcommittee), Nominated Graduate Faculty
Molecular Core Research Group

College of Pharmacy Committee Service
College of Pharmacy Committee service includes the following participants. Positions beyond general membership are noted.

Daniels C
Administrative Council
Admissions Committee
Faculty Affairs Committee
Graduate Education and Faculty Research Affairs Committee

Diedrich D
Curricular Affairs Committee

Goettsch R
Graduate Education and Faculty Research Affairs Committee
Promotion and Tenure Committee, Faculty Advocate

Jarvi E
Admissions Committee
Assessment Committee
Faculty Affairs Committee
Nontraditional Pharm.D. Policies and Procedures Committee
Pharmaceutical Sciences New Faculty Search Committee, Chair
WebStudies

Isaacson E
Curriculum Committee
Nontraditional Pharm.D. Admissions Subcommittee
Student Affairs Committee
Scholarships Subcommittee

LaHann T
Administrative Council
Graduate Student Admissions Committee
Library Liaison
Pharmacy Faculty Affairs Committee, Chair
Technology Committee

Lai J
Admissions Committee
Assessment Committee
Building Committee
Critical Thinking Assessment Committee
Curricular Affairs Committee
Faculty Affairs, Chair
Graduate Education and Faculty Research Affairs Committee
Graduate Program Coordinator
Graduate Program Self Study Review, Chair
Graduate Students Admission
Pharmaceutical Sciences Department Chair Search Committee, Chair
Pharm.D. Students, Advisor
Writing Assessment Committee
Annual Report 1996-97

Mobley C
Graduate Education and Faculty Research Affairs Committee
Pharmaceutical Sciences Department Chair Search Committee

Nelson C
Student Affairs Committee
Admissions Committee
Progressions Committee
Scholarship Committee

Ratka A
Accreditation Self Study Physical, Clinical, Library and Financial Resources Subcommittee
Admission Committee
Curricular Affairs Committee
Faculty Affairs Committee, Faculty Advocate
Graduate Education and Faculty Research Affairs Committee, Co-Chair
Pharmaceutical Sciences Department Chair Search Committee
Search Committee, Associate Dean

Wilson C
Admissions Committee, Reader
Building Committee
Case Studies Assessment Committee
Curriculum Committee
Faculty and Professional Staff Subcommittee
Graduate Program Guideline Review Subcommittee
Technology Committee

F. Honors & Awards

Our faculty received the following honors and awards during the reporting period.

Fontenelle J
College of Pharmacy Teacher-of-the-Year, Class of 1999

Isaacson E
American Men and Women of Science, Listed

Jarvi E
ISU Alumni Association OAS Influential Professor
ISU Outstanding Public Service Award
College of Pharmacy Teacher-of-the-Year, Class of 2000

LaHann T
Who’s Who in Medicine and Healthcare (Marquis Who’s Who), Listed
Who’s Who in Science and Engineering (Marquis Who’s Who), Listed

Lai J
ISU Distinguished Researcher
Program and Organizing Committee, the 4th International Conference on Brain Energy Metabolism, Member

Ratka A
Granted tenure and promotion to Associate Professor
ISU Distinguished Researcher of the Year Award, Nominee

Wilson C
AACP Novo Nordisk Grants, Liaison
American Physiological Society, Mentor
Community Service Award for participation in Blackfoot High School Career Day
ISU Graduate Faculty, voted into
Mountain States Medical Research Institute, Member
Rho Chi Society, nominated for membership
Phi Lambda Sigma, nominated for membership

G. Patents

LaHann T
Method for Enhancing the Solubility of the Boron Delivery Drug, Boronophenylalanine (BPA), U.S. patent 5,492,900, 1996
Improved Formulation for I.V. Administration of the Boron Delivery Drug, Boronophenylalanine (BPA), U.S. patent filed in 1996, notice of allowance received

H. Research Grants

The following extramural funding was acquired during fiscal year ’97 for research and training.

Daniels C. Suppression of Interleukin 6 Signal Transduction by Cyclic AMP: a New Counter-Regulatory Mechanism Controlling the Immune Response, ISU Faculty Research Grant, Direct Costs $3,979, January 1996 to December 1996.


Diedrich D. Enhanced Core Research Laboratories at Idaho Universities, NIH-IDeA program, $600,000 ($300,000 direct control - 3 years), October 1996.

LaHann T. Boron Neutron Capture Therapy for Cancer, The Hiram Cochran Fund of the Metropolitan Atlanta Community Foundation, $15,000 (direct control $15,000), 1997.


Jarvi E. Assay Development and Quality Assurance Assays for OTC Preparations, $418,000 (estimated renewal), Melaleuca, January 1996.

Jarvi E. Assay Development and Quality Assurance Assays for OTC Preparations, $10,000 (estimated renewal), NW Cosmetic Laboraotries, January 1996.

Ratka A. Glucuronide Metabolites of Morphine and Gender Differences in Sensitivity to Morphine, Faculty Research Committee, Idaho State University $3,179 ($3,179 direct control), May 1997.

Baker L, Ratka A. Effects of Gender on Pharmacokinetics of Morphine and its Metabolites, 1997-98 Merck Research Scholar Award, AACP and the Merck Foundation, $7,000 ($7,000 direct control), April 1997.


Ratka A. Gender Differences in Development of Tolerance to Morphine, NSF-EPSCoR, $91,348 ($91,348 direct control), September 1996.

Ray JC, Ratka A. Gender Differences in Development of Tolerance to Morphine, NSF-PESCoR, Research Experience for Undergraduates, $3,600 ($3,600 direct control - 3 years), May 1996.


Wilson C. A Pharmacy Based Drug Education Program Directed Towards Improved Diabetes Management (liaison and advisor), AACP/Novo Nordisc Pharmacy Practice Diabetes Program, $6,000 ($6,000 direct control), July 1, 1996 - June 30, 1997.

Wilson C. Acquisition of a Beckman Swing Bucket Rotor (TLS-55) for the Optima TL Ultracentrifuge, University Research Committee, $7,600, July 1997 - June 1998.
Appendix III

Externship Sites and Site Coordinators

Albertson’s Pharmacy #154, Dennis Beach, R.Ph., Boise, ID
Albertson’s Pharmacy #157, Ron Carpentier, R.Ph., Boise, ID
Albertson’s Pharmacy #101, Michael Griffiths, R.Ph., Boise, ID
Albertson’s Pharmacy #102, Jim Miller, R.Ph., Nampa, ID
Albertson’s Pharmacy, Toni Oberriter, Pharm.D., Reno, NV
Albertson’s Pharmacy #159, Mike Sanders, R.Ph., Pocatello, ID
Albertson’s Pharmacy #169, Darrell Sterling, R.Ph., Boise, ID
Boise Veterans Affairs Medical Center, Jan Poreba, R.Ph., Boise, ID
Boise Veterans Affairs Medical Center, Frank Talboy, R.Ph., Boise, ID
Carrs’ Foodland Pharmacy, Roger Penrod, R.Ph., Fairbanks, AK
Coram Health Care, MaryBeth Vlieg, Pharm.D., Reno, NV
Cottonwood Hospital Medical Center, Michael Carnley, Pharm.D., Murray, UT
East Gate Drug, Doug Smith, R.Ph., Idaho Falls, ID
Ed Snell’s Pharmacy Shop, Ed Snell, R.Ph., Pocatello, ID
Fred Meyers MI/PRx, Stan Gibson, R.Ph., Meridian, ID
Idaho Care Systems, Shawna Kittridge, R.Ph., Boise, ID
Kootenai Medical Center, Don Klaudt, R.Ph., Coeur D’Alene, ID
Kurt’s Pharmacy, Kurt Hefner, R.Ph., Twin Falls, ID
Max Pharmacy, Gordon Milford, R.Ph., Boise, ID
Medicine Man West Pharmacy, Don Smith, R.Ph., Post Falls, ID
The Medicine Shoppe, Kirk Wentworth, R.Ph., Carson City, NV
Medisave Pharmacy, Rachelle Spiro, R.Ph., Las Vegas, NV
Mercy Medical Center, Dick Bloomer, R.Ph., Nampa, ID
Mountain Home Airforce Base, Cpt. Ron Stumbo, Mountain Home, ID
Naval Medical Center, Mike Lovetro, R.Ph., San Diego, CA
PayLess Drug Store, Frank Casabonne, R.Ph., Boise, ID
PayLess Drug Store, Jeff Geiger, R.Ph., San Diego, CA
PHS Indian Health Services, Alvin Lee, R.Ph., White River, AZ
Professional Center Pharmacy, Howard Green, R.Ph., Reno, NV
Rainbow Medical, Richard Nicholas, Pharm.D., Henderson, NV
Ream’s Pharmacy, Robert Holbeck, R.Ph., Sandy, UT
Reno Veterans Affairs Medical Center, Bob Jacobs, R.Ph., Reno, NV
Rockland Pharmacy, Rod Tucker, R.Ph., American Falls, ID
St. Alphonsus Regional Medical Center, Boyd Jeffery, R.Ph., Boise, ID
St. Luke’s Regional Medical Center, Jim Francis, R.Ph., Boise, ID
Silverada Pharmacy, Larry Pinson, Pharm.D., Reno, NV
Smith’s Food & Drug, Bruce Bilodeau, R.Ph., Salt Lake City, UT
Smith’s Food & Drug, Bill Johns, R.Ph., Chubbuck, ID
Smith’s Food & Drug, Allen Maxwell, R.Ph., Burley, ID
State Board of Pharmacy, Marion Bowen, R.Ph., Downey, ID
Super Save Discount Drug, Lorri Gebo-Shaver, Pharm.D., Pocatello, ID
Teton Clinical Pharmacy, Ty Swensen, Pharm.D., Idaho Falls, ID
Teton Clinical Pharmacy, Brandy Young, R.Ph., Idaho Falls, ID
Twin Falls Clinic and Hospital, Robert F. King, R.Ph., Twin Falls, ID
Village East Drugs, Scott Silber, R.Ph., Henderson, NV
Wal-Mart Discount, Teri Wiege, R.Ph., Idaho Falls, ID
Wal-Mart Discount, Kristina Wilson, Pharm.D., Chubbuck, ID
Washoe Medical Center, Jeff Monaghan, Pharm.D., Reno, NV
Westgate Pharmacy, Tom Snow, R.Ph., Las Vegas, NV
Clerkship Sites and Preceptors

Amarillo Veterans Affairs Medical Center, Jack Gillum, Pharm.D., Amarillo, TX
Amarillo Veterans Affairs Medical Center, Evan Sorrells, Pharm.D., Amarillo, TX
Bannock Regional Medical Center, Marilyn Silcock, Pharm.D., Pocatello, ID
Boise Veterans Affairs Medical Center, Marcus Cook, Pharm.D., Boise, ID
Boise Veterans Affairs Medical Center, Sandra Jue, Pharm.D., Boise, ID
Boise Veterans Affairs Medical Center, Karl Madaras-Kelly, Pharm.D., Boise, ID
Boise Veterans Affairs Medical Center, Barbara Mason, Pharm.D., Boise, ID
Family Practice Group, Patricia Bartlome’, Pharm.D., Pocatello, ID
Family Practice Medical Center, Roger Hefflinger, Pharm.D., Boise, ID
Fort Hall Indian Health Service, Tom Troshynski, Pharm.D., Fort Hall, ID
High Plains Baptist Hospital, Lori Henke, Pharm.D., Amarillo, TX
High Plains Baptist Hospital, Scott Soefje, Pharm.D., Amarillo, TX
Idaho Drug Information Service, Jan Beckwith, Pharm.D., Pocatello, ID
ISU College of Pharmacy, James Lai, Ph.D., Pocatello, ID
ISU College of Pharmacy, Brenda Story-Phelan, Pharm.D., Pocatello, ID
ISU Family Medicine Clinic, Rex Force, Pharm.D., Pocatello, ID
Idaho Veterans Affairs Nursing Home, Richard Rhodes, Pharm.D., Pocatello, ID
Kaiser Permanente, Norman Muilenburg, R.Ph., Clackamas, OR
Magic Valley Regional Medical Center, Randy Hart, R.Ph., Twin Falls, ID
Magic Valley Regional Medical Center, Dennis Sawyer, Pharm.D., Twin Falls, ID
Mercy Hospital & Medical Center, Robert Pachorek, Pharm.D., San Diego, CA
Naval Medical Center, Margaret Cording, R.Ph., San Diego, CA
Naval Medical Center, Carolynnne Gate, Pharm.D., San Diego, CA
Naval Medical Center, Edith Lee, Pharm.D., San Diego, CA
Naval Medical Center, Todd Schinohara, Pharm.D., San Diego, CA
Nevada Mental Health Institute, John Warren, Pharm.D., Sparks, NV
Pocatello Children & Adolescent Clinic, John Erramouspe, Pharm.D., Pocatello, ID
Pocatello Regional Medical Center, Paul Driver, Pharm.D., Pocatello, ID
Reno Veterans Affairs Medical Center, Jan Carmichael, Pharm.D., Reno, NV
Reno Veterans Affairs Medical Center, Michael Stander, Pharm.D., Reno, NV
Reno Veterans Affairs Medical Center, Susanne Thornley, Pharm.D., Reno, NV
Reno Veterans Affairs Medical Center, Kari Wieland, Pharm.D., Reno, NV
St. Alphonsus Regional Medical Center, Tami Eide, Pharm.D., Boise, ID
St. Alphonsus Regional Medical Center, Joy Matsuyama, Pharm.D., Boise, ID
St. Luke’s Regional Medical Center, Shirley Reitz, Pharm.D., Boise, ID
Southeast Idaho Veteran Affairs Ambulatory Clinic, Teddie Gould, M.S., Pocatello, ID
State Hospital South, Steve Hurley, Pharm.D., Blackfoot, ID
University of Nevada Medical Center, Wendy Cantrell, Pharm.D., Las Vegas, NV
University of Nevada Medical Center, Shannon Coonce, Pharm.D., Las Vegas, NV
University of Nevada Medical Center, Dennis Fuller, Pharm.D., Las Vegas, NV
University of Nevada Medical Center, Lori Isaacs, M.H.A., R.Ph., Las Vegas, NV
University of Nevada Medical Center, Gail Sieren, Pharm.D., Las Vegas, NV
University of Nevada Medical Center, Mary Staples, R.Ph., Las Vegas, NV
Washoe Medical Center, Jerry Clifford, Pharm.D., Reno, NV
Washoe Medical Center, Robert Fox, Pharm.D., Reno, NV
Washoe Medical Center, Bryon Pinson, Pharm.D., Reno, NV
Washoe Medical Center, Pat Weir, Pharm.D., Reno, NV