

ACCP Report

Timothy J. Ives, Pharm.D., M.P.H., FCCP, BCPS; Editor
Michael S. Maddux, Pharm.D., FCCP; Executive Director

Vol. 24, No. 2; February 2005

2005 Spring Practice and Research Forum Updates in Therapeutics: The Pharmacotherapy Preparatory Course

April 10-13, 2005
Myrtle Beach, South Carolina

Join your colleagues and friends for this exciting program April 10-13, 2005, in tropical Myrtle Beach. The Myrtle Beach Resort at Grande Dunes is a great venue for learning and networking in a relaxing and refreshing environment.

Two programs—One registration fee! Choose from a huge offering of educational options:

- Spring Practice and Research Forum—applications in practice, research, education, and practice management.
- The Pharmacotherapy Preparatory Course—case-based presentations relating to virtually every area on the specialty board examination.
- For a complete list of presentations, [click here](#).



Myrtle Beach, South Carolina

Get more from your meeting—register for a

Saturday program! Join your colleagues for one of three exciting programs of special interest on Saturday, April 9. Please note that separate registration is required.

Technology for Teaching and Clinical Interventions The Role of PDAs

Developed by the ACCP Education and Training PRN
8:00 a.m. - 5:00 p.m.

This workshop will closely examine the potential roles and innovative practices of using PDAs in education, evaluation, and the assessment of clinical pharmacy learners including students, residents, and practicing clinicians. Participants will learn ways to use PDAs to document clinical activities and

interventions. Determining appropriate resources and available programs for the use of PDAs in practice and training also will be discussed.

Designing and Implementing Successful Business Models in Ambulatory Care/Community Practice

Developed by the ACCP Ambulatory Care Task Force
8:00 a.m. - 5:00 p.m.

With payment for Medication Therapy Management Services soon to be possible as a result of the new Medicare Drug Benefit, pharmacists need to develop new practice models to support both clinical practice and the administrative aspects of that practice. In this highly interactive workshop, participants will learn how to establish collaborative practice in an ambulatory or community setting and how to bill for services through both conventional and soon-to-be-available mechanisms. Participants will have an opportunity to develop a successful business plan for clinical practice, with a timeline for implementation.

Advancements in Oncology Therapeutics for Colorectal Cancer and Lymphomas: What's the Pharmacoeconomic Standard of Care?

Developed by the ACCP Hematology/Oncology PRN
1:00 p.m. - 5:00 p.m.

This meeting will provide an update on the advancements in the treatment of colorectal cancer and lymphoma and discuss the relevant pharmacoeconomic aspects of these treatments. The clinical scenarios will demonstrate how to approach balancing the clinical benefits with the significant costs associated with new treatment options.

And . . . have some fun! The Spring Forum offers a great opportunity to catch up with old friends and meet new ones. Come to a Practice and Research Network (PRN) Networking Forum to share common interests and experiences. Play in the ACCP Classic Golf Tournament on Tuesday afternoon. Or spend some time exploring the beachfront, relaxing at a spa, working out at the health club, or just lounging by an oceanfront pool.

**Take advantage of reduced registration fees
and [register](#) by March 4, 2005!**

ACCP Faculty Development Workshop *Invitational Session to be Offered in Myrtle Beach on April 13*

The upcoming ACCP Spring Practice and Research Forum will offer an invitational workshop for pharmacy practice faculty, preceptors, and residents/fellows interested in teaching and learning. Entitled "Holding a Cat by the Tail: Active Learning and Assessment in Pharmacy Practice," this workshop will be held Wednesday, April 13, from 8:00 a.m. to 12:15 p.m., at the Myrtle Beach Marriott in Myrtle Beach, South Carolina. The workshop is in response to numerous requests that ACCP has received to provide more programming tailored to meet clinical faculty and preceptor needs. This program also marks the first in a series of faculty/preceptor development efforts that will include future curricular programming and publications designed expressly for clinical faculty and preceptors.

Using a highly interactive format, workshop faculty Sheldon G. Holstad, Pharm.D., and Thomas D. Zlatic, Ph.D., will focus on key educational topics, including teaching and learning in didactic and experiential settings; active learning in pharmacy practice education; formative assessment; criterion-based feedback; and electronic clerkship portfolios. This program will provide clinical preceptors and faculty with a unique opportunity to learn and apply new approaches to teaching and learning. In addition, residents or fellows who attend will gain insights into the teaching opportunities associated with an academic career. Although the invitational workshop is open to all registrants at the Spring Practice and Research Forum, space is limited. Therefore, we must restrict attendance to participants on a first-come, first-served basis. Workshop invitations have been sent to the Deans and Pharmacy Practice Chairs at each U.S. school or college of pharmacy. For more information, please contact the Academic Dean or Pharmacy Practice Department Chair at your affiliated institution.

Bosso Appointed to Pharmacotherapy Specialty Council

Greene and Sowinski Appointed to Second Terms

John Bosso, Pharm.D., FCCP, BCPS, has been appointed by ACCP to the Pharmacotherapy Specialty Council of the Board of Pharmaceutical Specialties (BPS). He will complete the last two years of the term vacated by Jannet Carmichael, Pharm.D., FCCP, BCPS, who moved from the Specialty Council to the BPS Board of Directors in 2004. In addition, ACCP appointees William Greene, Pharm.D., BCPS and Kevin Sowinski, Pharm.D., FCCP, BCPS were reappointed to serve successive three-year terms on the Specialty Council. Sowinski will serve as Chair and Greene as Vice Chair during 2005.

The nine-member Specialty Council is responsible for developing and administering the pharmacotherapy certification examination given annually by BPS. Six board certified specialist members of the council are appointed by ACCP as the recognized sponsor of Pharmacotherapy. Other council

members include specialists Rex Force, Ila Harris, and Julie Wright. Nonspecialist members of the council are J. Chris Bradberry, Patricia Kienle, and Joy Meier.

For information about certification examinations in pharmacotherapy, nutrition support, oncology, psychiatry, and nuclear pharmacy, contact BPS at (202) 429-7591 or www.bpsweb.org.

Under Construction—the New ACCP Student Network

Construction of the ACCP Student Network is under way! Many current and new ACCP student members joined the network in December, and these members soon will be able to communicate via a new ACCP student listserv. In addition, students will receive more information about inaugural network activities and initiatives over the next few weeks.

Creation of the student network is the result of many months of hard work and planning by the Membership Committee, the Board of Regents, and ACCP staff. Although in its infancy, the network promises to be an invaluable resource for students enrolled in pharmacy degree programs. The ACCP Student Network will function much the same as an ACCP Practice and Research Network (PRN) in that it will be self-governing, the leadership will be selected by the members of the network, and programming and other educational activities will be tailored to meet the needs of student members. Like the PRNs, communication among network members will be primarily through electronic means, with face-to-face meetings scheduled during future ACCP Annual Meetings and Spring Forums.

The network is designed to grow and develop by capitalizing on the involvement of those the network serves. Hence, all student members of ACCP are invited to join the network and become part of this new ACCP community. For further information on the ACCP Student Network, contact Melissa Morris, Membership Project Manager, at mmorris@accp.com or (816) 531-2177, ext. 13. Faculty and preceptors who wish to provide network information to their students are also asked to contact Melissa.

Washington Report

C. Edwin Webb, Pharm.D., M.P.H.
Director, Government and Professional Affairs

Policy Directions for Credentialing in Pharmacy: an Issue Whose Time has Arrived

Regular visitors to this column are accustomed to reading about issues, activities, and news related to legislative or regulatory activities in which ACCP is actively engaged as we work to advance the College's advocacy agenda. Consequently, members may have a tendency to think of the "Washington office" as having a purely "government affairs" function.

(continued on page 3)



(continued from page 2)

However, the office is also actively engaged in a variety of “professional affairs” initiatives and interactions with pharmacy (and other) organizations that are based in Washington. Among the most current and challenging of these issues is the current status and future directions for the credentialing framework within which pharmacists operate.

Of course, ACCP has long supported the attainment by pharmacists of voluntary, postlicensure education, training and credentials (e.g., residency and/or fellowship training, certification by the Board of Pharmaceutical Specialties) to enhance, and demonstrate, pharmacists’ abilities to provide high-quality patient care. A growing number of pharmacists are pursuing these and other types of credentials, and the health care system and policy-makers are beginning to take notice-and to ask questions about our credentialing framework. As pharmacists become increasingly recognized as providers of direct patient care services, questions concerning qualifications and credentials to do so will become more common, and more penetrating. This is increasingly being recognized as a high-priority issue by pharmacy’s national organizations, and the Council on Credentialing in Pharmacy, comprised of almost all of the national organizations that represent pharmacists, will serve as an important venue for this important profession-wide dialogue.

The issue has been on the agenda of the ACCP Board of Regents during its two most recent meetings, and aspects of it have surfaced at the recent Town Hall meeting at the ACCP annual meeting and in some listserv discussions. The Board used the following “background materials” to frame its initial discussion in October:

The recognition and acceptance of a direct patient care role^{1, 2} for pharmacists is now a reality, and such services are increasingly being implemented in almost every type of practice setting by pharmacists holding a range of professional credentials. Recent federal legislation, through the medication therapy management program (MTMP) component of the Medicare outpatient drug benefit that goes into effect in 2006, has provided a pivotal public endorsement of this direct patient care role.

In addition, efforts to amend the Social Security Act to have pharmacists recognized as providers under Medicare Part B, the component that provides payment to physicians and certain other health care professionals for their patient care services, has been the top legislative priority of ACCP and at least one other national pharmacy organization for the past 3–4 years. To date, that effort has been predicated on a policy position that does not specify, other than licensure as a pharmacist, either a specific credential or a potential menu of acceptable credentials that would constitute evidence of a pharmacist’s knowledge, skills, and abilities to provide such services in a safe and effective manner.

Questions continue to be raised, however, both by external audiences (Centers for Medicare and Medicaid Services [CMS], prospective Medicare drug plan sponsors, Congress, and medical organizations) and within various segments of the profession (frequently ACCP members and elected leaders) itself concerning the nature and scope of such activi-

ties and the necessary or appropriate credentials that should be held by a pharmacist to engage in direct patient care. The question that is frequently asked is “How can one know or be assured that a particular pharmacist has the knowledge, skills, abilities, experience, and professional judgment necessary to provide direct patient care?” The asking of the question strongly suggests a lack of faith in state licensure of pharmacists as the sole credential to validate a pharmacist’s qualifications to provide direct patient care. However, objective evidence to support the premise that licensure alone is an inadequate credential, or to support any specific credential as irrefutable evidence of a pharmacist’s knowledge and ability to provide direct patient care, remains elusive.

Several initiatives in which ACCP is either actively involved or which staff is monitoring are related to this question. These include:

- ACCP project to define a “clinical pharmacist” and to delineate the core competencies of a clinical pharmacist as part of the College’s strategic plan outcomes.
- ACCP/ASHP joint efforts to promote residency training as an essential element of the preparation of pharmacists providing direct patient care.
- Concept under consideration by the Board of Pharmaceutical Specialties to establish an “advanced practice pharmacist” credential.
- Discussions within the Council on Credentialing in Pharmacy concerning the concept of continuous professional development (CPD) as an alternative to the current system of continuing education in pharmacy.
- The current revision process for the accreditation standards for pharmacy professional degree programs.
- Legislative initiatives to seek Medicare Part B payment reform to authorize payment for pharmacists’ direct patient care
- Efforts to promote wider acceptance of and reliance on BPS certification in pharmacotherapy (or other recognized specialties) as an appropriate credential for pharmacists who provide direct patient care.
- Dialogue between pharmacy organizations and likely private sector groups that will offer the new Medicare Part D drug benefit (discussions conducted under the auspices of ASHP and AMCP).
- Dialogue between pharmacy organizations and CMS staff responsible for the rule-making and implementation MTMP within the Medicare Part D drug benefit by prescription drug plans.

¹For purposes of this discussion, the professional activities associated with the dispensing of a prescription, including any patient education and counseling activities that may be required by statute or regulation to accompany the dispensing service, are excluded from the concept of “a direct patient care role.” This exclusion may reasonably be debated.

²For the purposes of this discussion, “direct patient care” consists of those activities that are described in the definition of collaborative drug therapy management contained in the current ACCP position paper on Collaborative Drug Therapy Management (CDTM). Available at <http://www.accp.com/position/pos2309.pdf>.

(continued on page 4)

(continued from page 3)

- Activities of the Pharmacist Services Technical Advisory Coalition to work with the AMA/CPT Editorial Process to develop/refine the coding infrastructure for pharmacists' medication therapy management/direct patient care services.

To function more effectively within this multi-initiative environment in 2005 and beyond, staff believes that it is vital to engage the leadership and membership of ACCP in a comprehensive and open discussion, beginning immediately and continuing until a clear policy position and statement have been developed and approved, to determine:

- Whether ACCP believes that a credentialing framework beyond graduation from an accredited pharmacy degree program and licensure as a pharmacist is appropriate and should be "required" (in a regulatory context) for pharmacists who wish to provide direct patient care services.
- If the above answer is yes, what credential(s), either current or to be developed, would ACCP recommend as constituting the framework that would provide appropriate objective evidence of baseline competence to provide direct patient care.
- Once identified, how should ACCP proceed to advocate for such a credentialing framework within the context of the various initiatives listed above (and others that are certain to emerge). In particular, should ACCP "go it alone" in advocating for such a credentialing framework if it is not possible to construct a larger coalition of organizations to proceed with this objective.

Some perspectives and associated questions that may inform the discussion include the following:

Perspective 1. It has been suggested by some that "new graduates" are not sufficiently competent to provide direct patient care. However, the AACP "CAPE educational outcomes" document and ACPE's accreditation standards suggest that such skills are/should be a core element of the professional education experience.

- Is this lack of competence absolute or relative?
- If absolute, what curricular reform is needed to resolve the deficiency? Or, can this deficiency only be resolved through some type of education and training experience after completion of the degree program?
- If relative, what practice experiences beyond the clinical clerkship component of the curriculum would produce a graduate with baseline competence in direct patient care?
- If new graduates moved immediately upon licensure into a practice model that used them to perform direct patient care as their primary daily practice activity (rather than the medication dispensing practice model), would most of them be able to quantifiably improve the quality of medication use and outcomes in their patients?
- Could the NAPLEX examination be revised/restructured to better measure the ability of examinees to provide direct patient care? Might a "tiered" board examination

process more like the one used in medicine, administered at various points during the educational process, be used to assess new graduates' core capabilities in direct patient care?

Perspective 2. The evolution and focus of collaborative drug therapy management (CDTM) in recent years has varied substantially from state to state, based on such factors as the political and interprofessional climate within the state, the objectives and motivations of the leaders and members of state pharmacy organizations, and the ability to gain the support of other groups sympathetic to the concept of a more clinical and patient-centered role for pharmacists. In most situations, the regulatory framework for CDTM resides with the state board of pharmacy (along with a wide range of cooperative and interactive components involving physicians and/or state medical professional/licensing entities).

The range in scope of practice authorized under CDTM is quite broad, from essentially minimal direct supervision beyond the development and filing of written agreements or protocols to substantial limitations in what constitutes CDTM (e.g., essentially limited to emergency contraception consultation and services or immunization services in some states).

- Is CDTM ACCP's "end goal" for advancing the role of the pharmacist in direct patient care? That is, if CDTM is eventually authorized in all 50 states and the defined scope of practice for CDTM generally reflects the full range of direct patient care activities that pharmacists are likely to perform (and seek to receive payment for), would achieving that outcome constitute "the ultimate victory?"
- If CDTM is an "intermediate goal" toward securing pharmacists' "full citizenship" as providers of direct patient care, what scope of services, types of practice models, and regulatory framework would constitute the true "end goal?"
- Should the practice of CDTM by pharmacists, or any subsequent, more expansive practice model for delivery of direct patient care by pharmacists, be authorized and regulated exclusively by boards of pharmacy or should it be regulated using a multidisciplinary regulatory oversight process of some type?
- Should the practice of CDTM by pharmacists, or any subsequent, more expansive practice model for delivery of direct patient care by pharmacists, be structured and promoted like the practice relationships of the physician-physician assistant or physician-nurse practitioner? Or, should the practice model be more similar to that of physicians working with other physician specialists, physical therapists, social workers, etc.?
- Should efforts be expended by ACCP (with other organizations if possible) to validate one or more of the currently existing postlicensure credentials in pharmacy as an appropriate benchmark for competence in direct patient care?
- Should ACCP support and/or lead efforts to develop and validate an "advanced practice pharmacist" credential?

(continued on page 5)

(continued from page 4)

Some additional questions for thought:

- Is the “current reality” of too few pharmacists spending too little time in direct patient care activities primarily a problem of insufficient knowledge/skills/abilities/attitudes/numbers of pharmacists or is it predominantly one of an economic/business model that does not support or provide incentive for that practice behavior?
- Is the current professional discussion on credentialing for direct patient care a substitute for the previous B.S./Pharm.D. debates, or is this a different issue?
- Can/should the discussion on credentialing of pharmacists for direct patient care occur in isolation from discussions on “payment policy” (i.e., what credential(s) should be held in order to receive payment for direct patient care services)?

The Board of Regents is interested in gaining members’ perspectives and thoughts on this issue as it seeks to develop policy for ACCP’s future interactions with other professional organizations and policy-makers in health care. You can share your views by e-mailing the board at credentials@accp.com.

Congratulations to ACCP Members on Achieving Board Certification

Sincere congratulations to the ACCP members listed below who passed specialty certification examinations offered by the Board of Pharmaceutical Specialties (BPS) in October 2004. Of the 572 people newly certified in Nutrition Support, Oncology, Pharmacotherapy, or Psychiatric Pharmacy, 431 are members of ACCP.

For information on the 2005 specialty examinations, contact BPS at (202) 429-7591 or on the Web at <http://www.bpsweb.org>.

Pharmacotherapy

Laura Adkins Kerns
Steve Adoryan
Heather Adrian
Nabila Ahmed
Kari Aiello
Aesha D. Alkebulan
Nicole M. Allcock
Michelle Allen
Lisa Amsbaugh
Staci Anderson
Jodene L. Ashleman
Claire Avante
Rosario R. Avelino
Kevin T. Bain
Emily Ann Baker
Jodie Bakus
Robert Barcelona
Robert W. Barrons
Lesley B. Barry
Gabriel Bartoo
Myra T. Belgeri
Jill R. Bennett

John A. Bethea
Snehal H. Bhatt
Paula Jo Biscup
Jennifer M. Blanchard
Suzanne Bollmeier
Joy S. Boresi
Timothy Bosinski
Amy Bower
Steven T. Boyd
Lee Ann Bradley
Lora Bradley
Josh E. Breeding
Meredith Bremer
Jeffrey M. Brewer
Patrick Brown
Christopher J. Bultsma
Melissa Bumgardner
Shacreyett Burton
Weston Bush
Sara Calvert
Josie Cambria-Kiely
Ronald J. Campbell
Ennie L. Cano

Heidi Cantrell
Crystal J. Capone
Melissa K. Carlson
Shelley Carpenter
Ed Carter
Aubrey Cartwright
Nicole Casselberry
LeAnn Causey
Eugenia Chamis
Cynthia Chang
Jennifer Chang
Joanne Yeh Chang
James Chapple
Julie Chew
Jennifer Chonlahan
Amy Christenson
Tamara E. Claridge
Angela M. Clark
Nathan Clark
Sherry Clayton
Adam B. Cochrane
Victor Cohen
Jennifer Cole
Christy L. Collard
Rebecca J. Collins
Claudia S. Colombo
James C. Coons
Toby Cooper
Amanda H. Corbett
Todd A. Correll
Marilyn A. Cox
Margaret E. Craycraft
Denise M. Crow
Jim Curtis
Cathy W. Din
Alex R. Dominguez
Michael Dorsch
Blythe Duane
Martha C. Durham
Abigail Durrett
Susan Eade-Parson
Jason Egge
Lea S. Eiland
Claudine El-Beyrouty
Jennifer C. Ellison
Ahab Elmadhoun
Tiffany Erickson
Kirsten Fanning
Carmen M. Faulkner
Robert Fellin
Kelly M. Ferkul
Jon E. Folstad
Trisha L. Ford
Henry S. Freedy
Maisha Freeman
Louis J. Frescura
Dawn C. Fuke
Jason Gallagher
Alexandria Garavaglia-
Wilson
Rebecca E. Garner
Jolene Garrett
Candice Garwood
Kevin Gearing

Deanna M. Gengler
Olga Vlassova Gershovich
Eric Geurkink
Maresa Glass
Paul Glynn
Shellee A. Grim
Brian Grover
Don Gruntowicz
Karl F. Gumpfer
Cyrine E. Haidar
Laura Hamblin
Emily B. Hammond
Heather M. Harper
Christy S. Harris
Matthew Harris
David Hartzell
Carie Hatch
Clarissa F. Havel
Maryann Hawes
John W. Hawley
Margaret Heger
Karen Heggen-Cheng
Garrett Heitmann
E. Kelly Hester
Luke Heuts
Janelle A. Hickey
Patrick Higginbotham
Kristin A. Higgins
Andrea B. Hinton
Fayaz B. Hirji
Sarah D. Hittle
Edward T. Horn
Brian Howard
John E. Howard
Charmaine L. Hunt
Heather Hurley
Yasir Ahmed Mohamed
Ibrahim
Natalie Iwamiya
Cynthia Jackevicius
Tibb M. Jacobs
Samantha P. Jellinek
Lilyann Jeu
Jennifer Johansen
Kelly V. Johnson
Kristin Johnson
Leslie Johnson
Samuel G. Johnson
Melissa C. Jones
S. Christopher Jones
Che J. Jordan
Rodney M. Jorstad
Jeani T. Jow
Elizabeth R. Kaczmarek
Linda W. Kam
Tep M. Kang
Julie P. Karpinski
Marybeth Kazanas
Victoria Ke
Julia A. Kelleher
Leslie K. Kenney
Kenneth Kenyon

(continued on page 6)

(continued from page 5)

Ellen Keyes
Sarah Kiefer
Lisa J. Killam-Worrall
Joseph Kishel
Teresa B. Klepser
Christopher J. Klink
Sara J. Klockars
Diane R. Klueppel
Jennifer Knight
Joseph Kohn
Lisa S. Kolb
Barbara Kostic
Judith L. Kristeller
Nicole R. Krohn
Ivie H. Kumura
Sarah Lackey
P. Michelle Lai
Brad R. Laible
Lee D. Lam
Lisa N. Lambi
Jacquie Landau
Ginger Langley
Jessica Leang
Elizabeth S. Lear
Angie Lee
Grace Lee
Helen S. Lee
Laura M. Lees
Jason Lennen
Roger Lesch
John J. Lewin
Josephine Lienert
Catherine Lindblad
Jennifer Ling
Ann E. Lloyd
Daniel S. Longyhore
Larry M. Lopez
Christine Lounsbery
Julie L. Loveland
Bethany Lowe
Anthony Lucchi
Amy Lugo
Heather Magallon
Jodi L. Mann
Kristi L. March
Jeffrey Markoff
Suzanne Marques
Rhonda L. Martin
Tonya M. Martin
Kelly Masters
Gregory Matsuura
Marian L. Maxwell
Jill Mayes
Cassandra Maynard
Tim Mazzolini
Violetta A. McCarthy
Nancy McClew
Deanna L. McDanel
Lisa McDevitt
Mitzi McGinnis
Andrea McKeever
Nicole L. McMaster
Kelly J. McMonigal

John S. McMullen
Trupti Mehta
Michael J. Melroy
Stephen E. Melvin
Claire F. Merinar
Debra Ann Miller
LaTasha D. Miller
Rickey C. Miller
Bokyung Min
Caron Misita
Elizabeth M. Mitchell
Jessica Mitchell
Yoonsun Mo
Amy Mock
Carol A. Morreale
Joene Murphy
William Musick
Ann Nadrash
Sarjita Naik
Erin Newkirk
Daniel N. Nguyen
Minh T. Nguyen
Tien Nguyen
Leslie Nies
Barbara Novak
Stephen C. Nowmos
Mary Ellen O'Day
William J. O'Hara
Olaitan Ojo
Olanrewaju Okusanya
Renee Overstreet
Amy Pakyz
Patricia Parker
Nicole Passerello
Alpa M. Patel
Arpita P. Patel
Priti N. Patel
Rolee Pathak
John Patka
Michael J. Peeters
Julie Pellerin
Jennifer Pennington
Valerie R. Pennington
Emilio Perez
Kristen Perkerson
Paul E. Petersen
Bethany S. Pfister
Anh B. Pham
Kevin L. Poe
Patricia L. Poole
Kalen B. Porter
Jennifer J. Post
Daniel C. Powers
Lisa M. Predko
Lori A. Proeschel
Deborah A. Quarles
Jennifer Quinn
Marisa Rahn
Ellen E. Rhinard
Christie Robinson
Tiffany C. Rodgers
Jean Rose
Jennifer M. Roth
Rebecca Rottman

Kelly M. Rudd
Michael Russum
Kathryn Sabol
Melanie A. Sadler
Summer K. Schilling
Jessica Schippert
Kristin L. Schmidt
Kimberly R. Schnacky
Linda M. Schrand
Melissa A. Schroeder
Ryan R. Schupbach
Teresa A. Schweiger
Lisa Schwellenbach
Genna Sellers
Lindsey Semrad
Kajal K. Shah
Poorvi Shah
Allen Shek
Kara Lee Shirley
Carrie A. Sincak
Darin L. Smith
Michelle Smith
Chit So
Jennifer R. Spadaro
Jeffery W. Spray
Susan R. Spurlock
Zachary Stacy
Teresa Sterling
Vicki Sternhagen
Natasa Stevkovic
David W. Stewart
Kristine M. Stewart
Penny B. Stewart
Jeffrey S. Stroup
Maureen Sullivan
Frank J. Svete
Jessica M. Swearingen
Greta Sweney
Kimberly Lynn Tackett
Tsui Ling Tam
Doreen Tan
Douglas Thistle
Christopher J. Thomas
A. Jill Thompson
Maya A. Thompson
Margaret R. Thrower
Amy M. Tiemeier
Mary Toland
Kara Townsend
Yen T. Tran
Dominick P. Trombetta
Mary Jo Trout
Dawn Tsuha
Alexander E. Tunnell
Kevin M. Tuohy
Jennifer Ueltzen
Angela R. Vinti
Anthony Vitale
Jacqueline H. Vo
Joy A. Vreeland
Kim Vu
Robert Waite
Paul D. Walker
Jaime Wallace-Yang

Ceressa T. Ward
Kathryn Weber
Douglas J. Weschules
Sarah M. Westberg
Dale H. Whitby
Julie J. Wilkinson
Matthew J. Willenborg
Anita M.B. Williams
Charlene R. Williams
Sheri A. Wilson
Rose Winkel
Patrick T. Wong
Dione Woods
Suzanne B. Wortman
Brian Wren
Renee Xamplas
Vincent L. Yahl
Edward N. Yale
Jennifer Yamauchi
Rosa F. Yeh
Sunni J. Yocom
Jenean A. Young
Ryan Young

Nutritional Support

Elizabeth Ewing
Joan E. Converse
Brian M. Hodges
Marc LaPointe
A. Dormer Turnbull
Cathy L. Worrall

Oncology

Steven W. Bartholomew
Gregory T. Clark
Sheetal Desai
Janet Espirito
Catherine Fiola
Jodi Grabinski
Shalu M. Gupta
Van D. Hoang
Susan Hudock
Yuk Fung Hui
Karen Jeffries
Susanne E. Liewer
Linda R. Linderbeck
Hana LoPiccolo
Christine Nejfelt
Michael D. Newton
Vicki M. Nussbaum
Rebecca R. Parrow
Jane Russell
Joan Sharpe
Richard E. Shields
Sarunas Sliesoraitis
Emily Stuntebeck
Andy Szetela
Cheryl Tate
Jenni Thompson
J. Michael Vozniak
Jessica Welker
Wai Yu

(continued on page 7)

(continued from page 6)

Psychiatry

Tami Argo
Jami L. Butz
Ryan M. Carnahan
Kelly Clark
Beth M. Dubisar

Elizabeth A. Eichel
Robin G. Garner-Smith
Kelly C. Lee
Emily Lefler
Sudha Narayanaswamy
Sophie Robert
Antoinette Harrison
James A. Peterson

Save These Dates for the Oncology Review Course in Scottsdale, Arizona

The 2005 Oncology Pharmacy Preparatory Review Course is scheduled for April 28-30, 2005. The review course, co-sponsored by ACCP and the American Society of Health-System Pharmacists (ASHP), will be held at the Doubletree Paradise Valley Resort in Scottsdale, Arizona. Full information about the course content and schedule, registration information and fees, and travel and hotel information will be posted on the ACCP Web site, www.accp.com, by late February. Members of ACCP and ASHP will be eligible to register for the course at a discounted member rate.

Call for Proposals 2005

Research Institute of the American College
of Clinical Pharmacy

APPLICATION DEADLINES:

Research Fellowships: **March 1, 2005**
Career Development Research Award: **April 1, 2005**
Frontiers Research Awards: **April 1, 2005**
Investigator Develop Research Awards: **April 1, 2005**

Download application materials at

<http://www.accp.com/ClinNet/research.php>

ACCP CAREER DEVELOPMENT RESEARCH AWARD

Supports the research efforts of a mid-career scientist (i.e., more than 5 years since completion of formal training or first academic appointment) in Clinical Research, Translational Research, Pharmacoeconomics and Outcomes Research, or Pharmacy-Related Health Services Research. Dates: July 2005–June 2007. Award: \$50,000 in support of direct costs over a period of two years, plus \$5000 in support of institutional overhead. **APPLICATION DEADLINE: April 1, 2005**

ACCP FRONTIERS RESEARCH AWARDS

Support previously unmet or underserved areas of Pharmacy-Based Health Services Research or Clinical Research and Translational Research. All ACCP members are encouraged to apply. Frontiers Research Awards may range from \$10,000-\$50,000 depending on the proposal's requisite budget. It is anticipated that up to \$250,000 in total Frontiers Research Awards will be granted in 2005. **APPLICATION DEADLINE: April 1, 2005**

INVESTIGATOR DEVELOPMENT RESEARCH AWARDS

Support a specific research project directly related to the stated areas of emphasis. Dates: July 2005–June 2006. Award: with the exception of the Kos Dyslipidemia Research Award, the various programs provide \$17,500. The Kos Dyslipidemia Award provides \$20,000. Eligibility: ACCP Full Members, Associate Members, or Affiliate Members who qualify as new investigators (i.e., 5 or fewer years since completion of their formal training or first academic appointment). **APPLICATION DEADLINE: April 1, 2005**

ACCP Pharmacotherapy Research Award
Amgen Hematology/Oncology Research Award
Amgen Nephrology Research Award
AstraZeneca Cardiovascular Research Award
AstraZeneca Health Outcomes Research Award
Kos Pharmaceuticals Dyslipidemia Research Award
Sanofi-Aventis Allergy/Asthma Research Award
Sanofi-Aventis Central Nervous System Research Award
Sanofi-Aventis Infectious Diseases Research Award
Sanofi-Aventis Thrombosis Research Award
TAP Pharmaceutical Products GI Research Award
TAP Pharmaceutical Products Women's Health Research Award
Watson Laboratories Anemia Research Award

FELLOWSHIPS

Support the development of Clinical Scientists through postgraduate fellowship experiences, or through the support of graduate students who have at least completed their qualifying examinations. Research activities must related to the stated areas of emphasis. These grants provide the fellow's stipend of \$33,500, travel support of \$1000, and personnel fringe benefits of \$1500 for either the first or second year. Dates: funding will begin July 1, 2005. Eligibility: Preceptor-ACCP Full Member at time of application. Fellow-Full Member or Associate Member at time of application. **APPLICATION DEADLINE: March 1, 2005**

Ortho-McNeil Infectious Diseases Fellowship*

*Tentative for 2005. Contact ACCP Research Institute to confirm availability before submitting application.

For complete application information and packet contact:

American College of Clinical Pharmacy
3101 Broadway, Suite 650
Kansas City, Missouri 64111
(816) 531-2177
E-mail: accp@accp.com or
Download application materials at
<http://www.accp.com/ClinNet/research.php>.



Pharmacotherapy Pearls Pharmacotherapy —the e-journal

Stephen E. Cavanaugh, B.A.

Pharmacotherapy is available in PDF format online, free of charge, to all subscribers. The journal can be found at www.pharmacotherapy.org. The e-journal features unlimited downloading of PDF articles published in *Pharmacotherapy* since January 1999, hot links from references (for all issues from 2002 forward), and a monthly table of contents e-mail alert that lets readers know which articles are to be published in the next issue. *Pharmacotherapy* is mailed from our printer on the first of each month. Coincident with that mailing, the journal will go live on our Web site. Answers to the following “Frequently Asked Questions” will help you get the most out of our e-journal.

I never received a login for the e-journal. What do I do?

All e-mails with your login information will come from Extenza (extenza-eps.com), the company we have partnered with to bring you the e-journal. If you have not received such an e-mail from Extenza (or if you inadvertently deleted it) you can receive your login information by using the “Need Help Logging On?” link on the www.pharmacotherapy.org home page. The login information will be sent to the e-mail address listed with ACCP, available in the ClinNet database. If you have not listed an e-mail address with ACCP or your e-mail address has changed, please go to http://www.accp.com/ClinNet/change.cgi/member_id and update your e-mail address. Also, let the *Pharmacotherapy* staff know about the e-mail change by sending your new e-mail address to editor@ppijournal.org.

OK, I tried the “Need Help Logging On” page and get the message “Unable to find any users with the e-mail address specified.” What now?

Somehow your information on our list is missing or out of date. Please e-mail editor@ppijournal.org with your e-mail address and subscriber ID so that we can update your info. We are normally able to get your information updated and a login ID and password sent out to you within a day or two.

Is my login and password the same as I use for the ACCP Web site?

No, the login name and password for the e-journal on Extenza are different from your ACCP login and password. However, once you have successfully logged in to the Extenza site, you will be able to change your screen name and password from the originally assigned ones to others customized by you. To do this, use the login page at <http://www.extenza-eps.com/> and after logging in, use the “My Profile” link at the top of the page to edit your profile. You can update your contact information, change your e-mail address, and change your login and password.

I’ve logged in, but when I click on a link to download an article, nothing happens. What do I do now?

The latest versions of Mozilla and Netscape automatically disable pop-ups, which is a requirement for the Extenza site. Other browsers, including Internet Explorer and Safari, also have options to disable pop-ups. Pop-ups are required for downloading the PDFs from the new *Pharmacotherapy* e-journal site on Extenza. To download the PDFs, you will need to enable pop-up windows in your browser.

How do I get monthly Table of Contents alerts?

Start on the *Pharmacotherapy* home page. Click on the “Add to my alerts” link just below the journal title on this page. If you have already logged in, a window will pop up to let you know that *Pharmacotherapy* has now been added to your list of alerts (subscribing to a journal is not necessary to receive a Table of Contents alert from Extenza). If you have not already logged on, a pop-up window will give you the option of entering your login and password or of entering your e-mail address and a password. From that point on, you will get a monthly Table of Contents page sent to you via e-mail with hot links to our articles.

I’ve clicked on the “Link to article” link in the References section of an article, but I’m being asked to sign in or log in again. What do I do?

The “link to article” link within the reference section of any article allows you to view the referenced article (if it is online). However, you’ll be visiting another journal’s Web site when you click on this link, and we have no control over their access policies. Some, such as the *New England Journal of Medicine*, require a login before you can view the complete article. Others may grant free public access. If you have a print subscription to another journal that is online, you likely are able to get access to its online version. Check with the individual publisher for details.

Pharmacotherapy’s Annual Acknowledgment of Academic Reviewers

Wendy R. Cramer, B.S., FASCP

Richard T. Scheife, Pharm.D., FCCP

The peer-review process is, indeed, the cornerstone of all quality scientific literature. We deeply respect and appreciate the amount of time and expertise that is required to perform a high-quality review. Each year in the December issue of *Pharmacotherapy*, it is our sincere pleasure to acknowledge the significant contribution of time and expertise of our academic reviewers. This listing represents those reviewers who have reviewed articles that were *published or rejected during the current year*. That is, it is not a listing of all reviewers who reviewed for *Pharmacotherapy* during the current year. It is important to us that our reviewers

(continued on page 9)

(continued from page 8)

understand this distinction, as we would never want a reviewer to feel that their efforts were overlooked.

The editors and editorial board of *Pharmacotherapy* wish to extend their sincere thanks to the following professionals who have served in the invaluable capacity as academic reviewers of manuscripts that were published or rejected in 2004:

| | |
|------------------------|-------------------------|
| Stacey Abby | Richard C. Brundage |
| Adrienne Z. Ables | Marcia L. Buck |
| Asim Abu-Baker | Gilbert J. Burckart |
| Val R. Adams | David S. Burgess |
| May Adra | Todd Burkhardt |
| Jeffrey R. Aeschlimann | Jill S. Burkiewicz |
| Wendell S. Akers | Wayne S. Burkle |
| Ronda Akins | Lisa Burry |
| Earnest Alexander | Aaron Burstein |
| Cara L. Alfaro | Henry I. Bussey |
| Thomas Algozzine | Wesley G. Byerly, III, |
| George P. Allen | William J. Cady |
| Mary G. Amato | Gina Caliendo |
| Paul G. Ambrose | Daniel M. Canafax |
| Judith M. Andersen | Edmund Capparelli |
| Ernest R. Anderson, Jr | Beth L. Cariera |
| Gail Anderson | Marshall Cates |
| H. Glenn Anderson, Jr | Robert J. Cersosimo |
| Ilene B. Anderson | Raymond Cha |
| Peter Anderson | Betty J. Chaffee |
| Richard Artymowicz | Lingtak-Neander Chan |
| George Bailie | Linda Feng Chang |
| Albert Bajjoka | Scott Chapman |
| Brian A. Baker | Jack Chen |
| Danial E. Baker | Annie Kai I. Cheang |
| Gary M. Baker | Judy W. M. Cheng |
| Alan Barreuther | Hae Mi Choe |
| Jeni N. Bastean | Sunita Chojar |
| Larry Bauer | Pang H. Chong |
| Jerry Bauman | Gary Choy |
| Steven F. Bauwens | Peter Chyka |
| Edward Bednarczyk | Melvin Clark |
| Jeanelle T. Beltran | Patrick Clay |
| Sandra Benavides | Timothy Clifford |
| Kimberly W. Benner | Thomas Comstock |
| Michael Bentley | Michelle Condren |
| Paul Beringer | Umberto Conte |
| Marc Bernarducci | James C. Coons |
| Robert Berringer | Patty Cosler |
| Varsha Bhatt-Mehta | Joel O. Covinsky |
| Betsy Bickert | Elizabeth Coyle |
| Marianne Billeter | James D. Coyle |
| Melissa M. Blair | Kristine Radomski Crews |
| Crystal S. Blankenship | Catherine M. Crill |
| Barry E. Bleske | Shane Cross |
| Steven C. Boike | Michael A. Crouch |
| Emiko Bolton | Judy Curtis |
| C.A. Bond | William E. Dager |
| Renan A. Bonnel | Michael Dansinger |
| Lisa Boothby | Larry H. Danziger |
| Michael B. Bottorff | Robert Darracott |
| Carolyn Brackett | Kimberly K. Daugherty |
| Laurie L. Briceland | George A. Davis |
| Amber L. Briggs | Lorrie Davis |
| Julie Brousil | Edward Decker |
| Rex O. Brown | Renee M. DeHart |

| | |
|-----------------------|------------------------|
| Jeffrey C. Delafuente | Amanda Gruber |
| David Deremer | David R. P. Guay |
| C. Lindsay DeVane | Paul O. Gubbins |
| John W. Devlin | Karen Gunning |
| Richard B. Dew III | Sally K. Guthrie |
| Roland N. Dickerson | Stephanie Hagan |
| Robert DiDomenico | Robert Haight |
| Paul Dobesh | Stuart T. Haines |
| Julie Dopehide | Thomas G. Hall |
| P. Murali Doraiswamy | Robert A. Hamilton |
| Marcus Dortch | Stephen F. Hamilton |
| Thomas C. Dowling | Raymond W. Hammond |
| Richard Drew | Edward Hampton |
| Murray Ducharme | Helene Hardy |
| B. DeeAnn Dugan | Ila Mehra Harris |
| Lee Dupuis | Nicole R. Hartnell |
| Steven C. Ebert | Randy C. Hatton |
| Cathleen M. Edick | Dawn Havrda |
| David J. Edwards | David W. Hawkins |
| Gladys El-Chaar | Anne E. Hendrick |
| Lea S. Eliand | Jo Layne Herbel |
| Shareen El-Ibiary | Jill Herendeen |
| Vicki L. Ellingrod | Erica Hermansen |
| Mary Beth Elliott | Evelyn Hermes-DeSantis |
| Rowland Elwell | Christopher M. Herndon |
| Shelly Enders | Mary M. Hess |
| Steven R. Erickson | Gerald M. Higa |
| Erika J. Ernst | Daniel E. Hilleman |
| Michael E. Ernst | Christine Hochwald |
| Ene I. Ette | James D. Hoehns |
| Shannon L. Shockley | Kristi Hofer |
| Eubanks | Mark J. Hogan |
| Susan C. Fagan | Mark T. Holdsworth |
| Claudio Faria | Shelley D. Holmes |
| Jacqueline L. Fein | Curtis Holt |
| Patrick R. Finley | John R. Horn |
| James H. Fischer | Angie Hoth |
| Jeffrey Fish | Joanna Q. Hudson |
| Lawrence Fleckenstein | George C. Hurst |
| Courtney V. Fletcher | Mustafa Husain |
| Pat Flynn | Brian K. Irons |
| Stephen M. Ford | Marc K. Israel |
| David R. Foster | Christopher W. James |
| Caroline Fradette | Michael Jann |
| Amy M. Franks | Tara Jellison |
| Jiri Frohlich | Hershel Jick |
| Reginald F. Frye, Jr. | Susan S. Jick |
| Kathay Fulton | Mikki L. Johle |
| Cory Garvin | Jeffrey A. Johnson |
| Ronald R. Gaudette | Julie A. Johnson |
| Chris A. Gentry | Kelly Johnson |
| Douglas Geraets | Melissa Johnson |
| Mark Gill | Mikael Jones |
| Patrick P. Gleason | Rose Jung |
| Susan Glomski | Paul W. Jungnickel |
| Tracey L. Goldsmith | Bill Jusko |
| Michael J. Gonyeau | Jennifer Kammerer |
| Jean-Venable R. Goode | Michael P. Kane |
| S. Diane Goodwin | Sandra Kane |
| Jessica L. Goren | S. Lena Kang-Birken |
| Mildred D. Gottwald | Brian G. Katona |
| Darren W. Grabe | Michael B. Kays |
| Maqual R. Graham | Steven R. Kayser |
| Edward M. Grant | |
| James Griener | |

(continued on page 10)

(continued from page 9)

Donald J. Kellerman
William N. Kelly
Julie J. Kelsey
Wendy Klein-Schwartz
Michael E. Klepser
Teresa B. Klepser
Denise Kockler
John Koerber
Elizabeth Koller
J.M. Korth-Bradley
John G. Kuhn
Timothy A. Kuhn
Joseph L. Kuti
Richard Lalonde
Y. W. Francis Lam
Sara Lanfear
Ghassem E. Larijani
Stacy Lauderdale
Kenneth Lawrence
Jennifer Le
W. Greg Leader
Michel LeBlanc
Shavon L. LeBlanc
Aimee LeClaire
Audrey J. Lee
Carlton K. K. Lee
Kelly C. Lee
Mary Lee
Frank G. Lobeck
Thomas Lodise
Peter S. Loewen
Amanda Lofton
Ben M. Lomaestro
Larry M. Lopez
Elizabeth Ludwig
Mark Lutz
Binh Ly
Rob MacLaren
Timothy Madden
Susan Malecha
Beth Manning
Patricia A. Marken
Karen Marlowe
Fawziah Marra
Charles S. Marsh
Celeste Marx
Kimberly L. Mason
Iris P. Masucci
S. James Matthews
Karl A. Matuszewski
D. Byron May
Joseph E. Mazur
Brian F. McBride
Michelle W. McCarthy
Barbara McCloskey
James M. McKenney
Peggy S. McKinnon
Ian R. McNicholl
Robert A. Mead
Kathryn Meier
Lucinda G. Miller
Susan M. Miller
William A. Miller

David I. Min
Colby Mitchell
Beatriz Mitrzyk
Randell Miyahara
John Mohr
Ronald J. Moleski
Patricia A. Montgomery
Laura Morgan
Gene D. Morse
Lynette R. Moser
Kari Mount
Mark A. Munger
D. J. Murry
Kellie R. Murry
Prakash Naik
Jean M. Nappi
Lama Nazer
Ruth E. Nemire
Suzanne Nesbit
Deborah Newberry
Tien M. H. Ng
David P. Nicolau
David Nix
John Noviaskey
Edith Nutescu
Jacqueline L. Olin
Christine K. O'Neil
Jane T. Osterhaus
Daniele Ouellet
Robert Lee Page, II
Joe Paladino
Robert B. Parker
Pamela A. Pawloski
Glen Pearson
Scott R. Penzak
Paul J. Perry
Carl W. Peterson
William P. Petros
Chantal Pharand
Jennifer A. Phillips
Jennifer E. Pierson
Brian Pinto
Ronald E. Polk
Virginia Poole
J. Robert Powell
Hilliary A. Prescott
Carol B. Pugh
Talia Puzantian
Roula Qaqish
Ralph Raasch
Eric Racine
Kristine Radomski
Marsha A. Raebel
Alicia Rasmussen
R. Christopher Rathbun
Jill A. Rebuck
Michael D. Reed
William Reed
Shay Reichert
Alfred Remillard
Diana C. Renken
Alfred J. Remillard
Diane Rhee
Ted L. Rice
Dave Ritchie

Brian Robbins
Renee F. Robinson
Mario L. Rocci
Keith A. Rodvold
Donald P. Rogers
Carlos Rojas-Fernandez
Frank Romanelli
Margaret Bonnie Rosbolt
Terry K. Rosborough
Gigi H. Ross
John Rotschafer
Maria Rudis
Melody Ryan
Gloria Sachdev
Gordon S. Sacks
Melanie Sadler
Cynthia A. Sanoski
Joseph J. Saseen
Ashley A. Schields
Beth A. Schimel
Laurie Schmitt
Lori L. Schoonover
Glen T. Schumock
Arthur A. Schuna
Amy H. Schwartz
John Seeger
Marisel Segarra-Newnham
Bill Semchuk
Catherine M. Sesting
Sachin Shah
Meghan E. Shannon
Allen F. Shaughnessy
Greene Shepherd
Jeffrey T. Sherer
Ed Sheridan
Anjly Sheth
Shannon L. Shockley
Sarah Shrader
Scot Simpson
J. Jason Sims
Evan Sisson
Maryann Z. Skrabal
Douglas Slain
Ralph Slaker
Richard L. Slaughter
Rebecca B. Sleeper
Maureen A. Smythe
Kathleen Snella
Denise R. Sokos
Christine Solberg
Alka Z. Somani
Suellyn Sorensen
Mary Ross Southworth
Sarah A. Spinler
William J. Spruill
Nicole M. Stack
Gary E. Stein
Craig S. Stern
Clinton F. Stewart
Robert Stevens
Gary P. Stoehr
Julie A. Stoner
Robert J. Straka
Daniel Streetman
Jeffrey Stroup
Janice L. Stumpf
Deborah Sturpe
Katie J. Suda
Beverly A. Sullivan
Sean D. Sullivan
Marvin Swartz
Lynne Sylvia
Stanley J. Szeffler
Mohammed Tafreshi
Sandra Tailor
Robert Talbert
Vincent Tam
Helen Tamer
Amber Taylor
Leigh Taylor
Meg N. Taylor
J. Russell Teagarden
Kellie Teague
Robert J. Temple
Chris M. Terpening
Steven G. Terra
Christian J. Teter
Glen S. Tillotson
James E. Tisdale
Andreea Tofan
Tanifor Tohny
Noreen Chan Tompkins
Lynne Tonkovich-Quaranta
Daniel R. Touchette
Mark Touchette
William G. Troutman
Ross Tsuyuki
Brad Tumminello
Michael R. Ujhelyi
Peter Underwood
Rebecca Velez-Baker
Suzie Vendemelio
Lee Vermeulen
Lisa E. Vivero
Peter Vlasses
Mary L. Wagner
Christine M. Walko
Amelia Wall
Katherine Waltman
Ceresa T. Ward
Ronald E. Weaver
Barbara G. Wells
Jane Wells
Richard G. Wenzel
James Wertz
Karen Whalen
Paul J. Williams
Kristin M. Williamson
Michael Winter
Ann K. Wittkowsky
Annie Wong-Beringer
G. Christopher Wood
Betsy S. Woodall
Cathy Worrall
Richard L. Wurdeman
Margie Zak
Dawn G. Zarembski
Barbara J. Zarowitz
Issam Zineh

Science and Practice of Pharmacotherapy is Focus of Newest Book in PSAP Series

While pharmacotherapy is about the treatment of disease with the use of drugs, the practice of pharmacy involves much more. Pharmacist practitioners should understand the entire process of medication use; the externalities that impact care, such as costs and anticipated outcomes; sources of information on pharmaceuticals; and the different types of research applicable to pharmacotherapy and pharmacy practice. *The Science and Practice of Pharmacotherapy*, the newest book in ACCP's *Pharmacotherapy Self-Assessment Program, Fifth Edition* (PSAP-V) addresses these issues and others in a way that is both comprehensive and understandable. The book is designed to:

- Describe principles and applications of biostatistics from a clinician's perspective.
- Deliver an overview of the field of outcomes research and its use in pharmacy practice.
- Explore the role of secondary data analysis and observational research as it applies to the study of pharmacotherapy.
- Address the use of health status assessment in both research and clinical practice.
- Explain how to critically evaluate literature and resources for such evaluations.

The book also explores bioethical issues in pharmacy practice, and discusses such emerging areas as pharmacogenomics and bioterrorism.

Released last month, "*The Science and Practice of Pharmacotherapy*" is the fifth book in the 11-book PSAP-V series. The book is available in both print and online formats. Continuing pharmacy education credit is available for successful completion of the self-assessment examinations provided with each module. The three modules combined offer a total of 19.5 hours of continuing pharmacy education credit. For more information, visit www.psap.org.

Other books in the PSAP-V series, released in 2004, include *Cardiology*, *Health Care Stakeholders*, *Psychiatry*, and *Geriatrics* and *Special Populations*. Future releases will include *Infectious Diseases*, *Gastroenterology*, *Nutrition*, *Chronic Illnesses*, *Pediatrics*, *Oncology*, *Critical Care*, and *Transplantation*. Each of the six remaining books in the series will be released quarterly through July 2006.

PSAP is dedicated to offering the most up-to-date and comprehensive information available on recent drug therapy advances. Each book will further your knowledge in the therapeutic area it covers. PSAP is priced as follows. Shipping charges will apply.

| PSAP-V Single Books | Member Price | Nonmember Price |
|----------------------|--------------|-----------------|
| Hardcopy | \$55.00 | \$75.00 |
| Online | \$45.00 | \$65.00 |
| Hardcopy & Online | \$80.00 | \$100.00 |
| PSAP-V Series | | |
| Hardcopy | \$335.00 | \$495.00 |
| Online | \$295.00 | \$445.00 |
| Hardcopy & Online | \$485.00 | \$645.00 |

For specific information pertaining to release dates of future books, projected CE credits, and ACPE program numbers for each book, visit www.psap.org where you can quickly and conveniently place your order through the online bookstore. Use code BR0205 when ordering PSAP-V.

PSAP-V has been approved by the Board of



Pharmaceutical Specialties (BPS) for use in recertification of Board Certified Pharmacotherapy Specialists. ACCP is accredited by the Accreditation Council for Pharmacy Education (ACPE) as a provider of continuing pharmacy education.

ACCP Anticoagulation Training Program

Applications are now being accepted for the ACCP Anticoagulation Training Program. Consider how this intensive four-week training and didactic experience could benefit your students, residents, fellows ... or yourself.

Conducted at the Anticoagulation Clinics of North America and the University of Texas, the traineeship is precepted by Henry Bussey. Although the program is primarily focused on students, applications from residents, fellows, and practicing clinical pharmacists also are invited and encouraged. For students, the necessary arrangements will be made with the student's home institution so the traineeship qualifies for academic and clerkship credit. The traineeship is supported by an educational grant from Sanofi-Aventis.

Application deadline is March 1.

For more information, visit

<http://www.accp.com/ClinNet/research.php#anti>, or contact Henry Bussey at the University of Texas (bussey@uthscsa.edu) or

Cathy Englund

ACCP Research Institute

Telephone: (816) 531-2177

E-mail: cenglund@accp.com

Canadian Chapter to Co-Host Joint Therapeutics Congress

The Canadian College of Clinical Pharmacy (CCCP), in cooperation with the Canadian Society of Clinical Pharmacology and the



Canadian Association for Population Therapeutics, will co-host the 2nd Canadian Therapeutics Congress, April 14-19, 2005, in Vancouver, B.C. This year's congress theme is "Frontiers in Therapeutics." For more information, visit the CCCP Web site at www.cccp.ca.

Thanks to 2004 Frontiers Fund Contributors!

The ACCP Research Institute will provide more than \$570,000 in support of clinical pharmacy research and research training during 2005 through its various Research Awards and Fellowships. This represents a nearly 50% increase over the funding provided in 2004 and includes the College's Frontiers Research Awards, Career Development Research Award, Investigator Development Research Awards, and Fellowship support.

The Frontiers Research Awards support previously unmet or underserved areas of clinical or health services research. They are made possible by personal contributions that more than 500 ACCP members made to the Frontiers Fund in 2004. More information about the Frontiers Fund can be found at <http://www.accp.com/frontiers/>.



Deepest appreciation to the following individuals and organizations for their contributions to the Frontiers Fund in 2004.

Laura Adkins Kerns
Adult Medicine PRN
Barbara J. Ailor
Aesha D. Alkebulan
Jeanette Altavela
Mary G. Amato
American College of
Clinical Pharmacy
Andrea J. Anderson
John D. Anderson
Laurie Anderson-Zych
David M. Angaran
Ollie Anum
Christina Aquilante
Lindsay Arnold
Richard J. Artymowicz
Meredith J. Aull
Aventis Pharmaceuticals
Matching Gift
Elaine Bailey
Kevin T. Bain
Jacquelyn Bainbridge
Iman E. Bajjoka
Don Baker in honor of
William E. Evans
William L. Baker, Jr.
David S. Bateshansky
Jerry L. Bauman
Donna G. Beall
Edward M. Bednarczyk

Amber L. Beitelshees
Myra T. Belgerii
Rosemary R. Berardi
Hildegard J. Berdine
Tricia M. Berry
Karen E. Bertch
Joseph S. Bertino
Varsha Bhatt-Mehta
Keri Bicking
Kim K. Birtcher
Amy L. Bivens
Melissa M. Blair
Deborah Blamble
Crystal S. Blankenship
Barry E. Bleske
Bob and Maureen Blouin
C. A. Bond
Lisa Anne Boothby
John A. Bosso and Jean Nappi
Michael B. Bottorff
Bradley A. Boucher
Susan K. Bowles
Steven T. Boyd
J. Chris Bradberry
Robert M. Breslow
Jeffrey M. Brewer
Cori M. Brock
Donald F. Brophy
Julie Anne Brousil
Rex O. Brown
Sally E. Brown
Dianne and Richard
Brundage
Marcia L. Buck
LanChi Le Bui
Gilbert J. Burekart
David S. Burgess

Kimberli Burgner
Deborah L. Burgun
John M. Burke
Jill S. Burkiewicz
Michael E. Burton
Henry I. Bussey
James A. Bustrack
Melissa Butler
Tina Cabala
Karim A. Calis
Katherine M. Campbell
Ann E. Canales
Samantha J. Carder
Cardiology PRN
Roxane Carr
Dana G. Carroll
Richard C. Carroll
Deborah S. Carson
Barry L. Carter
Angela Casey
Jacinta S. Cauffield
Central Nervous System PRN
Michelle M. Chapman
Jill Chappell
Scott L. Charland
Sandra L. Chase
Hsiang-Yin Chen
Jack Chen
Judy T. Chen
Judy Cheng
Yukping Ng Chiu
Moses S.S. Chow
Michael L. Christensen
David S. Chun
Allison Chung
Jose R. Cintron
Deidre Clark
Patrick G. Clay
Clinical Administration PRN
Thomas H. Cobb
Lawrence J. Cohen
Craig Coleman
Brad E. Cooper
Rachel D. Couchenour
Elizabeth A. Coyle
Donna O. Cranford
Catherine M. Crill
M. Lynn Crismon
Critical Care PRN
Nicole S. Culhane
William E. Dager
Stephen and Nicola Dahl
Denise Daly
Jacquiline J. Danyluk
Theodore Darkow
Terri Davidson
Lisa E. Davis
Andrea R. Decker
Renee M. DeHart
Jeffrey C. Delafuente
Tina Denetclaw
C. Lindsay DeVane
Lori L. Dickerson
Roland N. Dickerson

Lisa M. DiGioia-Ross
Joseph and Cecily DiPiro
Suzanne Dively-Smith
Paul P. Dobesh
Lawrence E. Dollar, Jr.
Karen D. Dominguez
Catherine Dormarunno
James V. Dorociak
Thomas C. Dowling
Drug Information PRN
George E. Dukes
Teresa S. Dunsworth
Grace L. Earl
Education/Training PRN
David J. Edwards
Robert and Julia Elenbaas
Sam Ellis
Cathy R. Englund
Mary H.H. Ensom
Ene I. Ette
R. Lee Evans, Jr.
William E. Evans
Ronald P. Evens
Susan C. Fagan
Elizabeth A. Farrington
Jose A.L. Feio
David J. Ferris
Robert M. Fink
Rebecca S. Finley
Lawrence Fleckenstein in
honor of John Gambertoglio
Patricia A. Flores Hosn
Ronald A. Floyd
Sheryl L. Follin
Emily Chung Foo in
memory of Mom
Edward F. Foote
Eric H. Frankel
Donald G. Fraser
Erica Fredette
Christopher Frei
Thomas R. Fritsche
Carla B. Frye
Sarah M. Gaffney
Lisa R. Galletta
Michelle Garland
Shauna Garris
Robert P. Gaynes
Rene E.M. Geater
Geriatrics PRN
Jane M. Gervasio
Chris Gillette
GI/Liver/Nutrition PRN
Janice Glascock
Susan M. Glomski
Susan Goodin
S. Diane Goodwin
Jessica Goren
Frederica A. Gould
Jodi Grabinski
Sarah E. Grady
Thomas Grandville

(continued on page 13)

(continued from page 12)

Thomas Gregory
James C. Griener
Rosemary I. Grover
Paul O. Gubbins
Karen Gunning
Curtis E. Haas
Shahrzad Haghparast
Robert J. Haight
Stuart T. Haines
Emily B. Hak
Lawrence J. Hak
Philip D. Hall
Thomas G. Hall
Mary Ann Halloran
Lynn M. Hamil
Stephen F. Hamilton
Raymond W. Hammond
Karen P. Hansen
Laura Hansen
Thomas C. Hardin
Ila M. Harris
R. Donald Harvey, III
Clarissa F. Havel
Mary S. Hayney
Daniel P. Healy
Nancy H. Heideman
Hematology/Oncology PRN
Brian Hemstreet
Leslie Hendeles
Sean Hennessy
Jon Herrington
Mary Hess
Andree S. Hest
Laura Toll Hill
Christina E. Hill-Zabala
Daniel E. Hilleman
Kimberly L. Hodulik
David S. Hoff
James M. Hoffman
Sheldon G. Holstad
John R. Horn
Bruce L. Hotchkiss
Patricia A. Howard
Joanna Q. Hudson
Anne L. Hume
Lisa C. Hutchison
Paul R. Hutson
Anita Huttenhower
Rami B. Ibrahim
Indiana College of Clinical
Pharmacy
Infectious Diseases PRN
Rami B. Ibrahim
Christina Israel
Marc K. Israel
Matthew K. Ito
Bryce A. Jackman
Eric A. Jackson
Judith Jacobi
Amy Beth Jaeger
Leslie D. Jaggers
Michael W. Jann

Carrie L. Johnson
Johnson and Johnson
Matching Gift
Julie A. Johnson
Melissa D. Johnson
Melanie S. Joy
David W. Jungst
James S. Kalus
Michael P. Kane
Sandra L. Kane-Gill
Emilie L. Karpiuk
Claudia B. Karwoski
Michele B. Kaufman
Alan Kaul in honor of Ben
and Julia Kaul
William A. Kehoe
H. William Kelly
Kim L. Kelly
Julie J. Kelsey
Debbie Kennedy
LeAnne D. Kennedy
Shirin Khorashadi
Caroline Kicklighter in
honor of Kent Nelson
Bruce D. Kimble
Wendy Klein-Schwartz
Frank J. Klementich
Michael and Teresa Klepser
Dwight D. Kloth
David C. Knoppert
Lee A. Kral
Connie Kraus
Bruce Kreter
Vanessa J. Kumpf
Shih-Chen Kuo
John C. Kuth
Sharon M. LaForest
S. Casey Laizure
Kathleen D. Lake
Roger D. Lander
Frances A. Lanty
Somvadee Laohavaleeson
Thu Le
Marc Lee
Mary Lee
Norman J. Leshan
Anne Y. Lin
Sunny A. Linnebur
Bobby L. Lobo
Larry M. Lopez
David L. Lourwood
Thomas M. Ludden
Mark S. Luer
Joanne Luong
James Lyon
Eric J. MacLaughlin
Michael S. Maddux
Harvey E. Maldow
Susan Malecha
Daniel and Rebecca Malone
Radha B. Manian in honor
of Visalam
Henry J. Mann
Louis W. Marcy

Patricia A. Marken
Suzanne Marques
Charles C. Marsh
Linda G. Martin
Steven J. Martin
Patricia Masters
Gary R. Matzke
Julie O. Maurey
Vincent F. Mauro
Michael May in memory of
Steven K. May
Amie McCord
Herbert E. McGinty, Jr.
Peggy S. McKinnon
Donald C. McLeod
Howard L. McLeod
Melissa Mead
Robert A. Mead
MedKeeper
Patrick D. Meek
Kathleen Melbourne
S. Dee Melnyk
Gary Milavetz
Jessica Milchak
Roxie J. Miles
Allison W. Miller
Marianne Miller
Shannon L. Miller
Susan M. Miller in honor
of Cheryl Meeks
William A. Miller
Mark D. Mills
Melinda Monteforte
Deanna M. Moretz
Gene D. Morse and
Kathleen Tornatore
Wanda M. Moscicki
Bruce A. Mueller
Lisa M. Murphey
Milap and Suchitra Nahata
Marisa Navo
Ann Dao Nawarskas
James J. Nawarskas
Elaheh Nazeri
Nephrology PRN
Suzanne A. Nesbit
William C. Ness
Tina M. Nester
Deborah Newberry
Mark A. Newnham
NYS Chapter of ACCP
Timothy V. Nguyen
Michael D. Novario
John A. Noviasky
Edith A. Nutescu
Cindy L. O'Bryant
Mary Beth O'Connell
James T. O'Donnell
Christine K. O'Neil
Peggy S. Odegard
Gary and Lynda Oderda
Ohio College of Clinical
Pharmacy
Kari L. Olson

Patricia L. Orlando
Outcomes/Economics PRN
Norma J. Owens
Christopher M. Paap
Amy B. Pai
Pain Management PRN
Amy Pakyz
Joseph A. Paladino
Shi-Hui Pan
Jeong Mi Park
Robert B. Parker, II
Mark Parmenter
Richard H. Parrish
John J. Pasquale
Steven Pass
J. Herbert Patterson
Margaret M. Pearson
Thomas E. Peddicord
Pediatrics PRN
Valerie R. Pennington
Nancy M. Perrin
William P. Petros
Pfizer Foundation
Matching Gift
Pharmaceutical Industry
PRN
Herb E. Pettit
Bradley G. Phillips
Edward L. Pickett
John A. Pieper
Jacqueline Piozet
Michele A. Poepping-
Faulkner
Therese Poirier
Ronald E. Polk
L. Kent Porter
J. Robert Powell
Cindy Powers
Randall Prince in honor of
C. Douglas Hepler
Theresa Prosser
Kevin Pruitt in memory of
Milika Muhammad
April D. Qualls
Ralph H. Raasch in honor
of Nancy Raasch
Eric Racine
Marsha A. Raebel
Shelley B. Raebel
Kelly R. Ragucci
Mary E. Ray
Rhonda S. Rea
Kenneth E. Record
Mark A. Redell
Michael D. Reed
William E. Reed, Jr.
Jeffrey A. Reitz
Tami L. Remington
Denise H. Rhoney
Kathryn Rice
Steven M. Riddle
Renee F. Robinson

(continued on page 14)

(continued from page 13)

Jo Ellen Rodgers
John H. Rodman
Magaly Rodriguez De
Bittner
P. David Rogers
Jackie M. Roh
Carl L. Roland
Raylene M. Rospond
Leigh Ann Ross
Mary T. Roth
David and Pamela Rush
Melody and Stephen Ryan
Patrick and Nancy Ryan
Michael J. Rybak
Nada S. Saad
Gordon S. Sacks
Rosalie Sagraves
Francine D. Salinitri
Sanofi-Synthelabo, Inc.
Cynthia A. Sanoski
Tamara M. Santiago
Joseph J. Saseen
Jerome Schentag
Julia K. Schimmelpfennig
Kristin L. Schmidt
Glen T. Schumock
Rowena N. Schwartz
Thomas E. Schwartz
Terry L. Seaton
Sharon See
Marisel Segarra-Newnham
Larry W. Segars
Marilyn Semenchuk
Todd P. Semla
Sachin Shah
John Shepherd
Joel Shuster
Jeri Sias
John K. Siepler
Devada Singh
Thomas S. Sisca
Grant E. Sklar
Rebecca F. Sleeper-Irons
Gary H. Smith
Judith A. Smith in honor of
Howard Smith
Kelly M. Smith

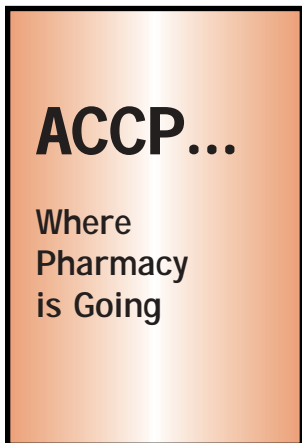
Steven R. Smith
Maureen A. Smythe
Melissa A. Somma
Roger W. Sommi
Anne P. Spencer
Sarah A. Spinler
Michele Y. Splinter
Wendy L. St. Peter
Zachary Stacy
Clinton F. Stewart
Glen L. Stimmel
Wanda Stipek
Robert J. Straka
Mark A. Stratton
Akilah Strawder
Kathleen A. Stringer
Mary Jane Sudekum
George C. Szabo
Kenneth J. Tabor
Robert L. Talbert
Kimberly B. Tallian
Katherine P. Thom
Jennifer K. Thomas
Erin M. Timpe
James E. Tisdale
Daniel R. Touchette
Ray Townsend and Jane
Osterhaus
Sarah A. Tracy
Philip Trapskin
Dimitra Travlos
Renee M. Trewyn
Dale A. Tucker
Rebecca G. Twombly
Donald L. Uden
Michael R. Ujhelyi
Kay M. Uttech
Lucinda Van Anglen
Eva M. Vasquez
Peter H. Vlasses
David F. Volles
Jeffrey W. Wadelin
Nancy M. Waite in honor
of Danusia Oczko
Lih-Jen Wang
William A. Watson
C. Edwin Webb
William B. Webster
Lynda S. Welage
Barbara and Richard Wells
Timothy E. Welty
Julianne K. Whipple
C. Michael White
Roger L. White
Barbara Wiggins
Craig D. Williams
Dennis M. Williams
Karen V. Williams
Paul J. Williams
Patricia Willmann
Daniel M. Witt
Anna M. Wodlinger
R. Brian Wolfe
Delores J. Wong

Women's Health PRN
G. Christopher Wood
Thomas J. Worrall
Suzanne B. Wortman
Julie Wright
Jo H. Wyeth
Gary C. Yee
Fantahun Yimam
Elizabeth W. Young
Jenean A. Young in honor
of Lori Esch
Nancy Yunker
Kimberly T. Zammit
Barbara Zarowitz in honor
of Edwin Hottmeyer
Peter C. Zervopoulos
Issam Zineh

**In-kind contributions to
the 2004 Silent Auction to
benefit the Frontiers
Fund were made by:**

Jacquelyn Bainbridge
Allyn Bandell
C.A. Bond
John Bosso
Bradley Boucher
J. Chris Bradberry
Michael Brown
Dianne Brundage
James Bustrack
Karim Calis
LeAnn Causey
Annie Cheang
William Dager
Stephen Dahl
Tina Denetclaw
Joe and Cecily DiPiro
Lisa Dolovich
Thomas Dowling
Robert Elenbaas
Cathy Englund
Susan Fagan
W. Douglas Figg
Sheryl L. Follin
Rex Force
S. Diane Goodwin
Karen Gunning
Laura Hansen
Donald Harvey
Jon Herrington
Ed Hesterlee
Timothy Ives
Melissa Johnson
Maryann Kaszuba
Julie Kelsey
Caroline Kicklighter
Joan Korth-Bradley
Patricia Kroboth
Peggy Kuehl
Marc Lee
Mary Lee
David Lourwood
Michael Maddux

Harvey Maldow
Karol Matsune
William McIntyre
John Murphy
John Newman
Steve Pass
Tom Peddicord
William Petros
L. Michael Posey
Cynthia Raehl
Melody Ryan
Richard Scheife
Julia Schulenberg
Terry Seaton
Keri Sims
Maureen Smythe
Kathleen Stringer
Peter Vlasses
William Watson
Ed Webb
Lynda Welage
Gary Yee



Be sure to check out details on the ACCP 2005 Spring Practice and Research Forum and Updates in Therapeutics: The Pharmacotherapy Preparatory Course at www.accp.com. This year's meeting will be held in beautiful Myrtle Beach, South Carolina. See this issue's cover article for details too.

Awards, Promotions, Grants, etc.

George Bailie, M.Sc., Pharm.D., Ph.D., FCCP, Professor of Pharmacy Practice at the Albany College of Pharmacy, has been recognized as a Fellow of the American Society of Nephrology.... **Jim Cloyd**, Pharm.D., FCCP, Associate Dean for Research and Professor at the University of Minnesota College of Pharmacy, has been named as the first occupant of the Weaver Endowed Chair in Orphan Drug Development. He will serve as director of the Center for Development of Drugs for Rare Diseases at the University.... **Paul Dobesh**, Pharm.D., FCCP, BCPS, has been appointed as Associate Professor at the University of Nebraska College of Pharmacy....**Thomas Dowling**, Pharm.D., Ph.D., Director of the Renal Clinical Pharmacology Lab at the University of Maryland School of Pharmacy, received a grant in the amount of \$222,750 from the National Institute of General Medical Sciences to evaluate in vitro-in vivo correlation models of renal drug clearance.... **C. Michael White**, Pharm.D., Co-Director of Arrhythmia and Cardiovascular Pharmacology Research at Hartford Hospital in Hartford, Connecticut, received grants in the amounts of \$102,500 from the Donaghue Foundation and \$49,500 from the Hartford Hospital Research Foundation for "The Atrial Fibrillation Suppression Trial III (AFIST III)".

Minisabbatical Opportunities

CARDIOLOGY

CENTRAL NERVOUS SYSTEM

HEMATOLOGY/ ONCOLOGY

INFECTIOUS DISEASES

PAIN MANAGEMENT

Take advantage of these minisabbatical programs offered by the respective Practice and Research Networks to enhance your practice or research skills. Learn from a recognized expert that will help you develop new clinical services or expand your research capabilities.

The application deadline is March 1.

For more information and to download application materials, visit <http://www.accp.com/ClinNet/research.php> or contact:

Cathy Englund
ACCP Research Institute
Phone: (816) 531-2177
E-Mail: cenglund@accp.com

New Members

Martha Adkins
Jon Aston
Anthony Bang
Tilak M. Baviskar
Darlene Biddle
Douglas J. Bradford
Gail G. Bridges
Lisa Buss
Christina N. Cao
John J. Carothers
Chris Cavalcant
Joshua Coons
Frances Cooper Brown
Anthony Cutajar
Christina Dickson
Rachel R. Digmann
John E. Edwards
Tammy Egger
Kevin J. Fortier
Kimm M.G. Freeman
Rainelle R. Gaddy
Sheryl Gamble
Jennifer Gass
Liancy A. Gomez

Tanya Gore
Karen Hassenplug
Lori Huddleston
Kristin M. Hurt
Thomas M. Jacobsen
Lisa Lapin
Sarah Lessard
Joni Maeda
Khalid Mamlouk
Kimberly A. Maslonek
Nicoe McCoy
John R. Miller
Karen Miller
Christopher C. Morrison
Wendelin K. Nelson
Ken Nguyen
Jenna L. Nikesch
Pamella Ochoa
Mirza E. Perez
Lanni Ratliff
Dawn Recker
Diane T. Renfro
Roy Edward Renfro
Heidi R. Rens
Joseph Schnabel
Steven F. Shannon

Krissa Skoglund
Erica Smith
Sara St. Angelo
Dena Stout
Angie Straughn
Rachel B. Sykes
Scott ThelemaQue
Bruce Thompson
Alexander E. Tunnell
Jose A. Vega
Susan Vendemelio
Albert A. Volkl
Mary Williams
Shannon Woods
Kristen Zeigler

Lawrence V. Friedrich
Brad L. Hopkins
Danielle Petritz
Nathan Stockman
Melinda Wellman
Issam Zineh

New Member Recruiters

Many thanks to the following individuals for recruiting colleagues to join them as ACCP members:

Mary Ann Halloran
Lisa M. Predko
Renee B. Sager

The following individuals recently advanced from Associate to Full Member:

Kimberley W. Benner
Linda C. Chen
Charlie H. Dell



**Clinical Faculty
Peripheral Stem Cell Transplantation
University of Michigan College of Pharmacy**

The University of Michigan is world renowned for the excellence of its academic programs. The University of Michigan College of Pharmacy, first established in 1876, is the first such unit within a state-supported University. The College is accepting applications for a nontenure-track clinical faculty position in peripheral stem cell transplantation.

The individual in this full-time clinical faculty position will work at the University of Michigan Health Systems, recently named one of America's top hospitals by *U.S. News and World Report*. The inpatient practice site is Peripheral Stem Cell Transplantation.

Maintenance of an active clinical service in peripheral stem cell transplantation, individual and collaborative scholarship/research activities, and didactic/experiential teaching are expected in this position. The successful candidate will preferably have a Doctor of Pharmacy degree and peripheral stem cell transplantation or hematology or oncology residency/fellowship training, or equivalent, along with eligibility for pharmacy licensure in Michigan.

This position is available immediately. Interested individuals should submit a letter of interest, three letters of recommendation and their curriculum vitae to:

Bruce A. Mueller, Pharm.D.
Clinical Sciences Department
University of Michigan College of Pharmacy
428 Church Street
Ann Arbor MI 48109-1065
Telephone: (734) 763-6629
Fax: (734) 763-4480
E-mail: muellerb@umich.edu

The University of Michigan is an Affirmative Action and Equal Opportunity Employer.

CLINICAL PHARMACY SPECIALISTS
Kaiser Permanente
Colorado Region

Kaiser Permanente is one of the nation's largest privately sponsored health care delivery systems. The Colorado Region has exciting opportunities in asthma, nephrology, inpatient internal medicine/acute care, inpatient palliative care, and outpatient palliative care for motivated pharmacy clinicians. The successful candidate(s) will participate in the planning and implementation of region-wide programs to optimize drug therapy outcomes in this progressive managed care setting. Opportunities are available for educating pharmacy students and residents. Research participation is encouraged.

Qualified applicants must possess a Doctor of Pharmacy degree with a residency and/or fellowship in primary care, ambulatory care, internal medicine, acute care, palliative care, or equivalent clinical pharmacy experience. Eligibility for pharmacy licensure in Colorado is necessary.

The pharmacy department in the Colorado Region of Kaiser Permanente employs more than 600 individuals, including more than 100 clinical pharmacy specialists and clinical pharmacists in practice areas such as primary care, infectious diseases, mental health, anticoagulation, cardiac risk, nephrology, endocrinology, cardiology, pharmacy call center, oncology, drug information, home care, and international travel.

Kaiser Permanente offers an excellent salary and benefits package. Support for continuing education, board certification, and professional memberships are included.

Qualified applicants should send a letter of interest, curriculum vitae, and the names of three individuals who may be contacted for references to:

Beth Chester, Pharm.D., BCPS
Quality & Clinical Pharmacy Manager
Kaiser Permanente Colorado Region
16601 East Centretech Parkway
Aurora CO 80011
Phone: (303) 326-7612
Fax: (303) 739-3574
E-mail: beth.chester@kp.org

Visit jobs.kaiserpermanente.org

**Assistant/Associate Professor
Clinical Teaching Track
School of Pharmacy
University of Colorado**

The newly created Division of Professional Education and Practice at the University of Colorado School of Pharmacy is seeking applicants for a full-time, 12-month, clinical/teaching track faculty position at the assistant or associate professor level. The school is nationally recognized for its leadership in pharmacy education and its strong commitment to developing and sustaining a diverse faculty, staff, and student body. The new division provides unprecedented opportunities for individuals with a strong commitment to an academic career encompassing innovative educational, service, and scholarly activities.

The primary responsibilities of this position include teaching across the curriculum in both didactic and active learning courses, and developing and delivering innovative instructional methods. The successful candidate also will be expected to engage in clinical practice and scholarly work.

Applicants should have a Pharm.D. degree, advanced training through a residency or fellowship program, and teaching experience. Preference will be given to candidates with board certification in pharmacotherapy. Applicants must be eligible for licensure in Colorado. Faculty rank and salary will depend on qualifications and experience.

Please e-mail, fax, or mail a letter of interest containing a statement of career goals, a curriculum vitae, and the names of three references with contact information to:

**Chair, Pharmacy Education Search Committee
University of Colorado School of Pharmacy
Campus Box C-238
4200 East Ninth Avenue
Denver CO 80262-0238
Fax: (303) 315-6281
E-mail: jay.rodensburg@uchsc.edu**

Applicant screening will begin February 15, 2005, and will continue until the position is filled.

The University of Colorado is committed to diversity and equality in education and employment.

**Pharmacy Practice Faculty Positions
Internal & Ambulatory Medicine**

Ferris State University College of Pharmacy invites applications for two, 12-month appointments at the rank of Assistant Professor specializing in internal medicine; and one, 12-month appointment at the rank of Assistant Professor specializing in ambulatory medicine. The successful candidates will provide clinical instruction to Doctor of Pharmacy students in mid-sized community teaching hospitals and clinics affiliated with the College's experiential program. The college's advanced experiential programming includes a 2-month internal medicine clerkship and a 2-month ambulatory medicine clerkship for Doctor of Pharmacy students, as well as other required and elective clerkships. The faculty members are also responsible for didactic instruction in the Doctor of Pharmacy program. In addition, support of college efforts is expected, including advising of students, representing the department on college or university committees, and acting as a liaison between the college and professional organizations.

The successful candidates must possess an advanced pharmacy degree (Pharm.D.) with postgraduate residency and/or fellowship training, or equivalent experience in internal medicine or ambulatory medicine. The college of pharmacy's philosophy places excellence in teaching as its first priority while encouraging involvement in scholarly activity. Salary is commensurate with qualifications and an excellent benefits package is offered. All candidates must be licensed or eligible for licensure in Michigan.

Applications will be accepted until a suitable candidate is selected. Applicants should forward a letter of intent, curriculum vitae, and three letters of recommendation to:

Stephen W. Durst, Pharm.D., BCPS
Associate Dean/Department Head, Pharmacy Practice
Ferris State University
College of Pharmacy
1000 Oliver Street-Spindler Hall
Kalamazoo MI 49008
Telephone: (269) 387-7215
E-mail: durst@kcms.msu.edu

For more information about Ferris State University, please visit our website at <http://www.ferris.edu>.

An Equal Opportunity/Affirmative Action employer.

Clinical Pharmacy Director

Job Location: Lakeland/Winter Haven area of Florida

Department/Category: Executive Allied Health Recruitment

Work Status: Flex 40 hours full-time per week

Description: Pharmacy Director in an acute care medical center

Shift: Days; normally 40 hours per week.

Executive Benefit Eligibility: YES

Relocation Expenses Provided: YES

Responsibilities:

The Pharmacy Director's role is to design, execute, and manage effective, efficient, and profitable pharmacy services at a Central Florida Medical Center. This includes the inpatient pharmacy and disease management clinics in the primary service area. This position will provide leadership in a decentralized environment focused on working with patients, physicians, and other providers to assist in prescribing, administering, and monitoring medication therapy. Clinical and distributive services are highly automated.

The medical center offers a variety of specialized services, including heart care, cancer treatment, birthing and women's health center, rehabilitation services, and medical- surgical procedures. It is part of a network of 56 hospitals (all acute care centers) located in 16 eastern and northwestern states with an array of other services, including family clinics, home care services, a nursing registry, and home medical equipment services.

Qualifications:

A B.S. in pharmacy, current licensure in the state of Florida, demonstrated progressive pharmacy management experience, strong leadership skills, and hospital/health care system experience. Doctor of Pharmacy (Pharm.D.) and/or Master's degree plus pharmacy practice residency preferred.

For More Information:

Web site: www.parkwayrecruiting.com
E-mail: johndyoung@parkwayrecruiting.com
Fax: (407) 386-3368

*This is not an agency job; this is a full-time position with an employer who contracts for our placement services.
The employer pays our fees.*