College of Pharmacy

The University of Tennessee Health Science Center

Memphis • Knoxville

June 2010

TOP STORIES

Plough Foundation makes 4.5 Million Donation

The Plough Foundation has awarded a grant of $4.5 million to the UTHSC College of Pharmacy (COP). The grant will be used to establish the Plough Center for Sterile Drug Delivery Systems, a 5,800-square-foot facility on the sixth floor of the new COP building. It will serve as an educational hub for teaching and training pharmacists, pharmaceutical scientists, and highly skilled employees for the pharmaceutical and biotechnology industry. The Plough Center will also be designed to develop and manufacture "small molecule" drug products to treat cancer, cardiovascular diseases, infectious diseases and other life-threatening conditions.

DICKERSON RECEIVES JOHN M. KINNEY AWARD

Dr. Roland "Rolly" Dickerson received the 2009 John M. Kinney Award for General Nutrition from the Nestle Nutrition Institute. It was awarded based on the merits of the following publication:

Dickerson RN, Swiggart CE, Morgan LM, et al. Safety and efficacy of a graduated intravenous insulin infusion protocol in critically ill trauma patients receiving specialized nutritional support. Nutrition. 2008;24:536-545.

2010-2011 University Closings

Independence Day	July 5, 2010
Labor Day	September 6, 2010
Thanksgiving	November 25-26, 2010
Winter Holiday	December 24-31, 2010
Martin Luther King, Jr.	January 17, 2011
Spring Holiday	April 22, 2011
Memorial Day	May 30, 2011

AACP Annual Meeting
July 10-14, 2010
Seattle, Washington

TPA 123rd Meeting
July 19-22, 2010
Memphis, Tennessee

ICAAC
September 12-15, 2010
Boston, Massachusetts

Pediatric Pharmacy Advocacy Group
October 7-10, 2010
St Louis, Missouri

ACCP Annual Meeting
October 17-20, 2010
Austin, Texas

Society of Critical Care Annual Meeting
January 15-19, 2011
San Diego, California

Clinical Nutrition Week
January 29-February 1, 2011
Vancouver, BC Canada

ASCPT
March 2-5, 2011
Dallas, Texas

APhA
March 25-28, 2011
Seattle, Washington

K U D O S

FACULTY

Promotions

- Debbie Byrd, PharmD has been named Associate Dean for Professional Affairs, The University of Tennessee College of Pharmacy.
- Chris Finch, PharmD was promoted to Assistant Director of Clinical Pharmacy Services at Methodist University Hospital, Memphis, Tennessee.
- Andrea Franks, PharmD has been named Assistant Dean for Assessment and Education, The University of Tennessee College of Pharmacy.
- Kelley Gear, PharmD, Paula Pairmore, PharmD, and Tony Powers, PharmD have attained National Home Infusion Association Pharmacy Certification.

Grants

Federal - grants

White-Means and colleagues awarded $1.3 Million Grant for Health Disparities Research - UTHSC has been awarded a $1.3 million grant to study health disparities in Memphis and Shelby County by the National Center on Minority Health and Health Disparities (NCMHD), a component of the National Institutes of Health (NIH). The studies will be conducted through the Consortium for Health Education, Economic Empowerment and Research (CHEER), a UTHSC-led collaborative initiative conducting exploratory health disparities research. "In our city and state, minorities perform far worse than others when diagnosed with diabetes, heart disease, stroke, obesity, HIV/AIDS and other health issues," said Shelley White-Means, PhD, health economics professor at UTHSC College of Pharmacy and founder of CHEER. Initially, the NCMHD grant will be used to study health disparities in the 38126 zip code. The area has a population of 8,104 citizens in which 98 percent are African-American and the area ranks among the highest in Memphis and Shelby County in hospitalization rates for chronic disease, sexually transmitted diseases and crime. This zip code also has the lowest median income and education levels of any part of the city – 60 percent are below poverty level, 45 percent hold a high school diploma or some college and only 4.5 percent hold a bachelor's degree or higher. CHEER partners include UTHSC, the Memphis and Shelby County Health Department, the Memphis Housing Authority, LeMoyne-Owen College and First Baptist Church Lauderdale with its independent affiliate, Mustard Seed, Inc., a non-profit organization seeking to improve the livelihood of citizens.

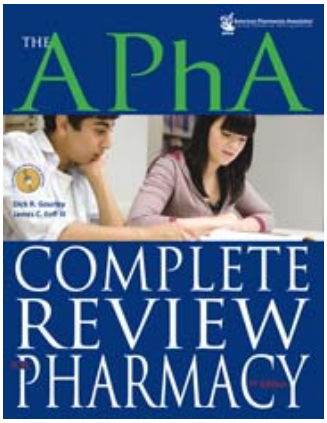
Other grants and contracts

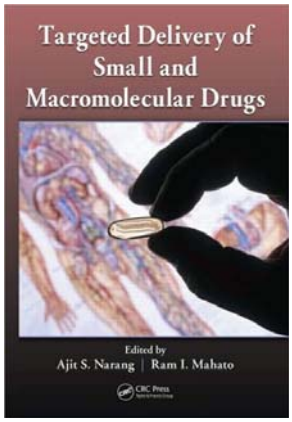
Chris Finch, PharmD and Justin Usery, PharmD received a grant to study "The Efficacy and Safety of Cleviprex in Ventriculostomy Patients Requiring Intravenous Antihypertensive Therapy." ($60,000)

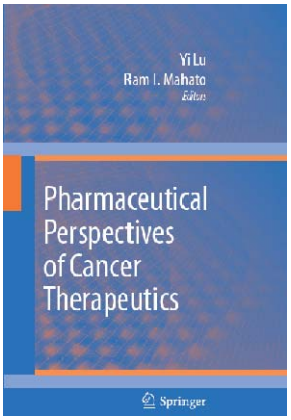
Publications

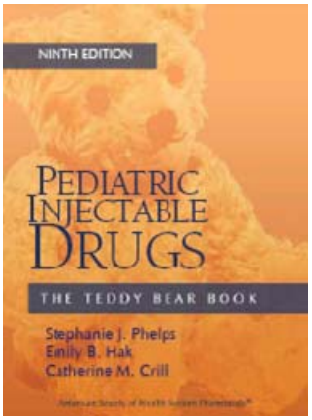
Book Editors

Faculty members in the College have released four textbooks during the past academic year. Drs. Eoff and Gourley released the *APhA Complete Review for Pharmacy*, 7th Edition; Dr. Ram Mahato served as editor on two textbooks: *Targeted Delivery of Small and Macromolecular Drugs* and *Pharmaceutical Perspectives of Cancer Therapeutics*; Drs. Stephanie Phelps, Emily Hak and Cathy Crill released the 9th edition of *The Teddy Bear Book*.









Book Chapters

- **Boucher BA**, **Wood GC**. Hypovolemic Shock. In: Chisholm-Burns M, Schwinghammer T, Wells BG, Malone PM, Kolesar JM, DiPiro JT, eds. Pharmacotherapy Principles and Practice. 2nd ed. New York, NY: McGraw-Hill, 2010:251-264.
- **Finks SW**. Cardiovascular disease in women. In: Richardson M, Chessman KH, Chant C, et al. (Eds.) Pharmacotherapy Self-Assessment Program, 7th Edition. Book 1: Cardiology III. American College of Clinical Pharmacy. Kansas City, MO. 2010: pages 179-199.
- **Rogers KC,** Pittman JR. Monitoring Drug Therapy. In: Nemire RE, Kier K, editors. *Pharmacy Student Survival Guide*. 2nd ed. The McGraw-Hill Companies, 2009: pages 132-160.

Papers (Late 2009 and 2010)

- **Benge CD**, Muldowney AS. Combination therapy with clopidogrel and proton pump inhibitors. *Lancet* 2010;375:27-28. (*letter*)
- **Crill CM, Hak EB**, Robinson LA, **Helms RA**. Evaluation of microbial contamination with different preparation methods for neonatal intravenous fat emulsion infusion. *Am J Health-Syst Pharm* 2010;67:914-918.
- **Finks SW, Oliphant CS, Manguso AH**, et al. Report of the Mid South College of Clinical Pharmacy Task Force on Anticoagulation: National Patient Safety Goal 3E. *Am J Health-Syst Pharm* 2009;66:2179-2188.
- Hahn M, Sriharan K, **McFarland MS**. Case Report-Gemfibrozil induced myositis in a patient with normal renal function. *Ann Pharmacother* 2010;44:211-214.
- Heilman C, Schneider S, **Barker K**, **Rogers PD**, Morschhäuser J. An A643T mutation in the transcription factor Upc2p causes constitutive *ERG11* upregulation and increased fluconazole resistance in *Candida albicans*. *Antimicrob Agents Chemother* 2010;54:353-359.
- Hoehamer CF, Cummings ED, Hilliard GM, **Rogers PD**. Changes in the proteome of *Candida albicans* in response to azole, polyene, and echinocandin antifungal agents. *Antimicrob Agents Chemother* 2010;54:1655-1664.
- **Loveless VS,** Surdock CP, Bhattacharjee H. Evaluation of zeta-potential and particle size of technetium 99mTc-sulfur colloid subsequent to the addition of lidocaine and sodium bicarbonate. *J Nucl Med Technol* 2010:38:49-52.
- McCoy EK, Thomas JL, Sowell RS, George C, **Finch CK**, Tolley EA, **Self TH**. An evaluation of peak expiratory flow monitoring: a comparison of sitting versus standing measurements. *J Am Board Fam Med* 2010;23:166-170.
- **McFarland MS**, **Gross B**, **Gentry C**, Tunney J, and Cross LB, Patel U. Drug Use Evaluation of Sitagliptin Dosing by Pharmacist Versus Nonpharmacist Clinicians in an Internal Medicine Department of a Private Physician-Owned Multispecialty Clinic. *J Manag Care Pharm* 2009;15:563-567.

- **McFarland MS**, Knight T, Baker A, Thomas J. The Continuation of oral medications with the initiation of insulin therapy in Type 2 Diabetes: A review of the evidence. *South Med J* 2010;103:58-65.
- Muldowney James AS, Schoenhard John A, **Benge CD**. The clinical pharmacology of eplerenone. *Expert Opin Drug Metab Toxicol* 2009;5:425-432.
- **Oliphant CS**, Doby JB, Blade CL, et al. Emerging P2Y12 receptor antagonists: role in coronary artery disease. *Curr Vascular Pharmacol* 2010;8:93-101.
- **Reed BN, Caudle KE**, **Rogers PD**. Fluconazole prophylaxis in high-risk neonates. *Ann Pharmacother* 2010;44:178-184.
- **Rogers KC, Finks, SW**. Job sharing for women pharmacists in academia. *Am Journ Pharm Educ* 2009;73: article 135.
- **Rogers KC,** Finks SW, Pour OR, Thomas M, Munir A. Procainamide-induced pleural and pericardial effusions. *Cardio Rev* 2009;26:1-6.
- Woo SH, **Finch CK, Broyles JE**, Wan J, Boswell R, **Hurdle A**. Early vs delayed enteral nutrition in critically ill medical patients. Nutr Clin Pract 2010;25:205-211.
- Zimmermann MB, **Crill CM**. Iodine in enteral and parenteral nutrition. *Best Pract Res Clin Endocrinol Metab* 2010;24:143-158.

Elected Offices and Appointments

▪ Paula Bell, PharmD	Secretary of the Mid-South College of Clinical Pharmacists
▪ John K. Buolamwini, PhD	Chair and Reviewer of the NIH study section for proposals responding to RFP on *In Vitro* Assessment of Antimicrobial Activity Viruses
▪ Peter Chyka, PharmD	Editorial Board of Pharmacotherapy (3 year term)
▪ William Greene, PharmD	Named "Special Government Employee" in the FDA Center for Drug Evaluation and Research, Office of Surveillance and Epidemiology
▪ Joanna Hudson, PharmD	Appointed as the pharmacist member of the State of Tennessee Chronic Kidney Disease Task Force charged with developing a plan to educate the public and professionals about CKD and making recommendations on methods for early screening, diagnosis and treatment of CKD in the state of Tennessee
▪ Ram Mahato, PhD	Member of the BTSS (Bioengineering, Technology and Surgical Sciences) study section of the NIH
▪ Junling Wang, PhD	Appointed Program Chair-Elect of the Gerontological Health Section of the American Public Health Association

Presentations (April and May 2010)

- Rolly Dickerson, PharmD – Glycemic control in the intensive care unit: Practices, promises, and pitfalls. Veterans Health Administration Nutrition Quality Summit. San Diego, California
- Rolly Dickerson, PharmD – Hypocaloric nutrition support for the hospitalized obese patient. Veterans Health Administration Nutrition Quality Summit. San Diego, California
- Ram Mahato, PhD – Multiple seminars about Polymeric Nanomedicines and Amphophilic Copolymers at server universities including one keynote lecture at the International Forum on Liver Disease. Shanghai, Nanjing, and Huai'an, China
- Stephanie Phelps, PharmD – The Toxicity of Anticonvulsants. Pediatric Pharmacy Advocacy Group Meeting. Salt Lake City, Utah

STUDENTS

UT COP Students Begin PGY1 Residency Training

Fifty-one graduating student pharmacists are entering PGY1 residencies this summer. While the majority of them will be completing residencies in hospital pharmacies, Drs. Shannon Beckman and Lacey McRae will be completing residencies in the community pharmacy arena at either Reeves-Sain Pharmacy in Murfreesboro or Kroger in Memphis, respectively. Thirty one graduates will train in Tennessee (10 in East, 10 in Middle, and 11 in West TN) and 20 will complete their education out-of-state. Students will complete training in 15 non-Tennessee states.

EAST TENNESSEE
BLOUNT MEMORIAL HOSPITAL, Maryville Stephanie Grimes, Crystal King, Alan Knauth
FORT SANDERS REGIONAL MEDICAL CENTER, Knoxville Brittany Brown, Josh Caraccio, Kara Lawson, Dana Walters
HOLSTON MEDICAL GROUP, Kingsport Alyse Chandler
UT MEDICAL CENTER, Knoxville Tara Kelly, Morgan Weaver

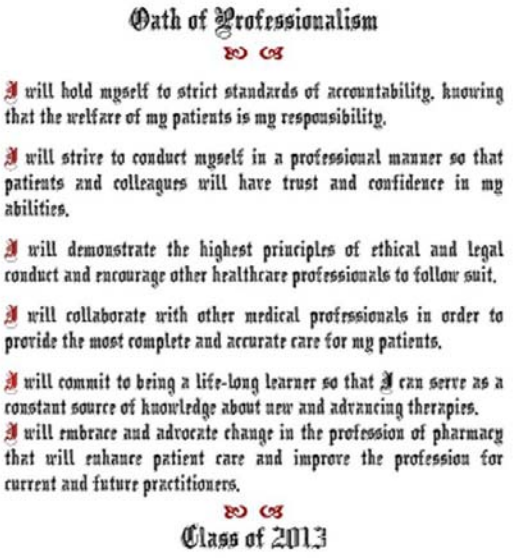
WEST TENNESSEE
REGIONAL MEDICAL CENTER, Memphis Julie Ann Bennett, David Hill, David Pope Mulherin
BAPTIST MEMORIAL HOSPITAL, Memphis Christopher Askins
JACKSON-MADISON COUNTY GENERAL HOSPITAL, Jackson Elizabeth Underwood
LEBONHEUR CHILDREN'S HOSPITAL, Memphis Jennifer Chung
UT-KROGER, Memphis Lacey McRae
VAMC, Memphis Jarrod Seth Keller, Shari May, Jennifer Neill, Julia Underwood

MIDDLE TENNESSEE
ST. THOMAS, Nashville Jenny Parnell, Jessica Patton
VANDERBILT CHILDREN'S HOSPITAL, Nashville Susan Publow
UT - REEVES-SAIN, Murfreesboro Shannon Beckman
TN VALLEY HEALTHCARE SYSTEM VA, Nashville Lana Huddleston, Jon Maxwell, Patricia Blair Miller, Kyle Phillips
STATE OF TENNESSEE DEPARTMENT OF MENTAL HEALTH, Nashville Joseph Pandit
EXECUTIVE RESIDENCY TPA, Nashville Katherine Nola

OUT OF STATE PROGRAMS	
Alabama	**AUBURN (PRINCETON BAPTIST MEDICAL CENTER), Birmingham** Andy Johnston
	AUBURN (EAST ALABAMA MEDICAL CENTER), Opelika Carolyn Cummings
Arkansas	**CENTRAL ARKANSAS VETERANS HEALTHCARE SYSTEM, Little Rock** Bhavika Patel
Arizona	**UNIVERSITY OF ARIZONA, Tucson** Sarah Bliss
DC	**CHILDREN'S NATIONAL MEDICAL CENTER, Washington, DC** Mindy Parman
Florida	**BAY PINES VA, Bay Pines** Leigh Wisnieski
	PALM BEACH ATLANTIC UNIVERSITY, West Palm Beach Elisa Greene
Georgia	**GRADY MEMORIAL HOSPITAL, Atlanta** Kara Goddard
	MEDICAL COLLEGE OF GEORGIA, Augusta Lisa Pelletier

OUT OF STATE	
Kentucky	**UNIVERSITY OF LOUISVILLE, Louisville** Dustin Thomas
Maryland	**THE JOHNS HOPKINS HOSPITAL, Baltimore, MD** Brian Marlow
Mississippi	**UNIVERSITY OF MISSISSIPPI MEDICAL CENTER, COMMUNITY, Jackson** Courtney Strong Davis
	UNIVERSITY OF MISSISSIPPI MEDICAL CENTER, PRIMARY CARE, Jackson Jennifer Smith
	UNIVERSITY OF MISSISSIPPI MEDICAL CENTER, Jackson Melanie Michael
New Jersy	**DESIGNWRITE/PHARMAWRITE FELLOWSHIP, Princeton** Sarah Mizne
New Mexico	**PRESBYTERIAN HEALTHCARE SERVICES, Albuquerque** Sarah Camponovo
New York	**KINGS BROOK JEWISH MEDICAL CENTER, Brooklyn** Melissa Chan
North Carolina	**CAMPBELL UNIVERSITY PRIMARY CARE, Raleigh** Josh Fleming
Ohio	**HEALTH ALLIANCE OF CINCINNATI, UNIVERSITY HOSPITAL, Cincinnati** Abigail Tucker
Texas	**TEXAS TECH UNIVERSITY, PHARMACOTHERAPY, Amarillo** Alexandra Barnette

Class of 2013 White Coat Ceremony



Oath of Professionalism

I will hold myself to strict standards of accountability, knowing that the welfare of my patients is my responsibility.

I will strive to conduct myself in a professional manner so that patients and colleagues will have trust and confidence in my abilities.

I will demonstrate the highest principles of ethical and legal conduct and encourage other healthcare professionals to follow suit.

I will collaborate with other medical professionals in order to provide the most complete and accurate care for my patients.

I will commit to being a life-long learner so that I can serve as a constant source of knowledge about new and advancing therapies.

I will embrace and advocate change in the profession of pharmacy that will enhance patient care and improve the profession for current and future practitioners.

Class of 2013

The P1 class' White Coat Ceremony was held on May 11th 2010 at First Baptist Church in Memphis, Tennessee. Dr. Tim Tucker, Immediate Past-President of the American Pharmacists Association and 1988 alumnus of the College, delivered the charge to the class.

For the past three years the P1 class has written their own Oath of Professionalism. Once completed each student pharmacist signs the oath. This oath is taken during both the White Coat and Pinning ceremonies.

ALUMNI and FRIENDS

Pharmacy Plus Programs Supports UT Update Seminars

David Pesterfield of Pharmacy Plus Programs presents a check to Dr. Glen Farr, Associate Dean for Continuing Education, to support the 2010 College of Pharmacy Update Seminars. The Update Seminars were presented at 8 sites across Tennessee from February through May. Through Pharmacy Plus Programs, David has generously supported continuing education programs of the College and the Tennessee Pharmacists Association for many years. David is also a member of the UT College of Pharmacy Dean's Advisory Council, which provides timely advice and support to the College. Stated Dr. Farr, "The pharmacists of Tennessee are very fortunate to have the generous support of David and Pharmacy Plus Programs. This support helps provide invaluable education to pharmacists across our state, and we are very grateful for this support."

L I M E L I G H T – an interview with Dr. Glen Farr

Glen E. Farr, PharmD, graduated from the University of Tennessee with a BS in Pharmacy. He was inspired to become involved in the profession in high school after an encounter with a successful pharmacist. He received his PharmD from the University of Tennessee in 1973. Glen is certified by the American Pharmacists Association and Tennessee Board of Pharmacy to administer immunizations. He is also certified in asthma care and diabetes care by the University of Tennessee College of Pharmacy. Today, Glen is a professor of Clinical Pharmacy at the University of Tennessee as well as Associate Dean for Continuing Education.

What motivated you to become a pharmacist? In high school, I began to look at various professions, but was undecided until my older sister met, and later married, a guy who had just graduated from pharmacy school. He drove a brand-new gold 1966 Buick Rivera. I thought that was the coolest car ever! I decided right then that I wanted to know more about what this guy did. And after talking with him, I was sold on pharmacy as a career—not so much from the standpoint of driving a new car, but from the ability to serve and help people.

Can you share an interesting story about your experience as a pharmacist? I have learned on several occasions not to assume that the patient understands all they need to know about their medication and/or how to use it. Even family members! I have two personal stories. First, when my son and his now wife were dating, they both developed an upper respiratory infection. They each saw different physicians. My son's physician prescribed doxycycline 100 mg, while my daughter-in-law's physician prescribed amoxicillin 500 mg. My son asked me why he got only 100 mg while she got 500 mg. I started explaining the concept of potency and that I assumed he understood that different medications had different potencies when he reminded me that I shouldn't assume anything when it comes to medications.

The second story involves my mother-in-law who was prescribed Advair and Spiriva when she was discharged from the hospital. I asked her if they showed her how to use them, and she replied that they did. I had been out of town for several days after she was discharged and upon my return, knowing that the optimum method of patient education is "show and tell," I asked her to show me how she was using them. She proceeded to put the Spiriva capsule in the Handihaler and immediately take a rapid deep breath, which she immediately expired. I noted that there were a couple of things that we could improve on. One, she should take a slow, deep inhalation and hold for at least 10 seconds, and two—and more importantly—she needed to puncture the capsule prior to inhalation! Next came the Advair. She demonstrated a pretty good technique on inhalation and breath hold, so I started to brag on her when I noticed that the counter stated "0." I asked her how many doses she had used in just a few days, and she stated that she used it twice a day. When I mentioned that there should have been a month's worth of doses, she stated that she had this one left over from a few years ago when she was prescribed it and she would rather use it than open a new one. We discussed the dose-counter and she said she didn't know that it was there. So, I told her that she'd probably feel much better in a few days when she started receiving some medication.

Do you feel that the role of pharmacists has changed over recent years? In most ways, yes, there have been tremendous changes in our profession, as well as all healthcare. For example, computer technology, which did not exist when I was a student, has revolutionized practice. I well remember the pharmacy at the hospital had a "mag card" typewriter, which was the "coolest" thing ever. Also, I remember my reluctance in giving up the slide rule in favor of a newfangled "calculator." Another significant change has been the introduction and evolution of generic drugs from just a handful of generics in my early years, to 67% of all prescription volume today. However, there are a few things that I remember hearing in 1972 that were going to revolutionize pharmacy - those really never can to fruition. I recall professors stating that "in 20 years, physicians will be diagnosing and pharmacists will be prescribing drug therapy." Of course, there are isolated pockets where this is done, but in the large scheme of practice, this has not evolved.

What is the most important thing you've learned over the course of your career? I have learned that change takes time. As a young man, I was always thinking I could change the world…instantly! As we all learn, this is generally not the case. However, with patience and persistence, we can often affect change in subtle ways that may impact practice or our lives more than we'll ever know.

What advice do you have for others thinking of becoming pharmacists? You've got to "love to learn." And you've got to always be a "teacher" no matter what part of the job you're doing. It's not a routine job and almost every day is different. If you like the routine, you would not like education/continuing education, but if you enjoy learning and meeting people, it can be very rewarding.

COLLEGE TRIVIA

ANDREW RICHARD BLISS, JR., PHG, PHC, MA, LLD, MD
Dean, 1926 – 1933

Until 1926, the School of Pharmacy did not have its own dean, but functioned as part of the College of Medicine. Dr. Andrew R. Bliss, Jr., author, inventor, teacher, and one of the nation's leading pharmacists, came to the University of Tennessee in 1923 as Chief of the Division of Physiology and Pharmacology in the College of Medicine. Dr. Bliss received his Ph.G. from New York College of Pharmacy, his Ph.C. from Columbia University, his M.A. and LL.D. from Howard College, and his M.D. from the University of Alabama. Appointed in Spring 1926 as the first dean of the UT School of Pharmacy, Dr. Bliss reorganized the school and increased the number of faculty members to 30 by 1933. After seven years as dean, he resigned to become Director of Webster Laboratories in Memphis and later served as the first dean of the pharmacy school at Howard College (now Samford University) in Birmingham, Alabama.

Find us on Facebook **The University of Tennessee College of Pharmacy**

Submit news items to sphelps@uthsc.edu or jbogue@uthsc.edu

The University of Tennessee Health Science Center is an EEO/AA/Title VI/TitleIX/Section 504/ADA/ADEA employer.