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EDUCATION

Ph. D. Pharmaceutics, University of Mississippi, December 1982
M.S. Pharmaceutics, University of Mississippi, December 1980
B.S. Pharmacy, University of Mississippi, May 1977

WORK EXPERIENCE

UNIVERSITY OF MISSISSIPPI **1999 to Present**

Director of Technology Management; Research Professor, **2004 to Present**
Research Institute of Pharmaceutical Sciences;
Professor, Pharmaceutics and Drug Delivery, School of Pharmacy

Responsible for business development, intellectual property management and licensing for the University. Responsible for managing late stage pharmaceutical development projects and for teaching in graduate level courses in Pharmaceutics, Pharmacology and Pharmacy Administration.

Associate Director, National Center for Natural Products Research, **1999 to 2004**
Research Professor, Pharmaceutics; School of Pharmacy

Responsible for business development, intellectual property management and licensing for the School of Pharmacy. Responsible for pharmaceutical product development projects for the National Center for Natural Products Research and for teaching graduate courses in Pharmaceutics and Pharmacy Administration.

CHAMBLISS TECHNOLOGY DEVELOPMENT **1998 to Present**
AND TRANSFER, LLC
Managing Director; Memphis, TN

Founder of a consulting company to assist with R&D management, project management, preparation or review of technical documents, intellectual property management, and business development.

SCHERING-PLOUGH HEALTHCARE PRODUCTS **1987 to 1998**
Vice President, Research and Development (1993-1998)
Memphis, TN

Led all technical groups in support of new and existing products under the Dr. Scholl's, Coppertone and the Schering-Plough over-the-counter brands such as Afrin, Correctol, A&D,

Drixoral, Chlor-Trimeton, Lotrimin, Tinactin, and Gyne-Lotrimin. Supervised Formulation Development, Process Development/Validation, Analytical Methods Development/Validation, Stability, Project Management, Product Safety/Toxicology, Clinical Development, Package Development, International Technical Services, and Consumer Relations. Reviewed and approved consumer labeling. Responsible for a $10 million budget and over 100 professionals. Directly responsible for technical evaluation of business development and Rx-to-OTC switch opportunities.

Key Accomplishments:

- Launched an average of 30 new or improved products per year in the United States, Canada, Japan, Latin America, and Europe. New products represented 25% of annual sales.
- Transferred 100 products with sales of over $200 million to 12 contract manufacturing sites over an 18-month period.
- Developed a strategic plan for the division with an executive team.
- Initiated and managed collaborative research alliances with European partners.
- Developed and implemented a project team approach to product development.

Senior Director, Scientific Affairs; Liberty Corner, New Jersey (1991-1993)

A staff position reporting to the Senior Vice President of Scientific and Regulatory Affairs. Led the Rx-to-OTC switch program, coordinated internal and external research programs, served on the Label and Advertising Review Committee and represented the corporation on trade association task groups. Served as interim Medical Director.

Key Accomplishments:

- Chaired the Non-Prescription Drug Manufacturers Association task group on antihistamines in the common cold. This led to an FDA agreement that antihistamines were safe and effective for this indication.
- Accelerated the completion of several NDA clinical programs while serving as interim Medical Director.
- Created four multidisciplinary therapy teams to drive the new products program.

Director, Pharmaceutical R&D; Memphis, TN (1990-1991)

Led group of 30 professionals responsible for formulation development for the OTC product line, and clinical supplies and analytical methods for the Coppertone, Dr. Scholl's, and the OTC product line.

Key Accomplishments:

- Assembled and led a task group to upgrade R&D to develop products for NDA submissions. The result was the addition of 50 new R&D scientists across all disciplines, a total rewrite of the SOP's, and initiation of 12 NDA projects.

Associate Director, Pharmaceutical R&D Memphis, TN (1987-1989)

Managed a group of ten professionals responsible for formulation development and clinical supplies of OTC products and Dr. Scholl's drug and cosmetic products.

BRISTOL-MYERS PHARMACEUTICAL COMPANY, 1984 to 1987
Manager, Pharmaceutical Development; Evansville, IN (1987)

Developed new pharmaceutical products under NDA's for the Animal Health Division. Supervised a group of three professionals responsible for all aspects of product development.

Senior Research Scientist, Pharmaceutical R&D; Syracuse, New York (1986-1987)

Conducted formulation development of new antibiotic compounds and independent research on novel controlled-release delivery systems.

Department Head Process Development; Syracuse, New York (1984-1986)

Managed a group of three professionals responsible for process development and technology transfer of new products for the Bristol Laboratories Division. The group, which reported to Operations, was responsible for solids, liquids, and sterile products.

G. D. SEARLE PHARMACEUTICAL COMPANY 1982 to 1984
Research Investigator, Pharmaceutical R&D; Skokie, IL.

Responsible for formulation development, process development and transfer to production of new pharmaceutical products.

RELIEF PHARMACIST 1978 to 1982
Senatobia Hospital; Senatobia, Ms.
Batesville Hospital; Batesville, Ms.
Chaney's Pharmacy; Oxford, Ms.

Responsible for managing the pharmacies on weekends, holidays and vacations.

UNIVERSITY OF MISSISSIPPI, SCHOOL OF PHARMACY 1978 TO 1982
Graduate teaching instructor

Responsible for teaching pharmacy students how to prepare, label and dispense prescriptions.

WALGREENS PHARMACY 1978 TO 1978
Pharmacist

Responsible for filling prescriptions and managing the pharmacy operations. Filled approximately 300 prescriptions per day.

TREASURY PHARMACY **1977 TO 1978**
Pharmacist

Responsible for filling prescriptions and managing the pharmacy operations. Filled approximately 300 prescriptions per day.

DOCTORS HOSPITAL **1977 TO 1977**
Pharmacist

Responsible for filling prescriptions for a 100 bed hospital.

PUBLICATIONS, PATENTS AND PRESENTATIONS

Chambliss, W.G., Course Director & Instructor, "Pharmaceutical Technology Transfer and Post-Approval Changes", Center for Professional Advancement, New Brunswick, New Jersey; Amsterdam, Netherlands; 2016 to present.

Chambliss, W., "Building Local and Regional Partnerships in Pharmaceutical Development", 2015 SEC Symposium, September 22, 2015.

Chambliss, W. Sam, T. and Yelvigi, M; "Scale-Up and Post Approval Changes (SUPAC)", The Encyclopedia of Pharmaceutical Technology, 2013.

Majumdar, S., Hippalgaonkar, K., Hingorani, T., and Chambliss, W., "Recent Patents and Regulatory Aspects on Ophthalmic Drug Delivery Systems", in Treatise on Ocular Drug Delivery, Mitra, A.K. Editor, Bentham Science, 2013.

Chambliss, W.G., Instructor, "Tablet Development: Practical Consideration" in the post-graduate course: "Hands-On Course in Tablet Technology (Formulation, Processing, Testing and FDA requirements)", 2013-present.

Chambliss, W.G., Acetic Acid, Glacial; Handbook of Pharmaceutical Excipients, 7th Edition, Rowe, Sheskey, Cook and Fenton, Editors, Pharmaceutical Press and APhA, 2012.

Chambliss, W.G., Sodium Acetate; Handbook of Pharmaceutical Excipients, 7th Edition, Rowe, Sheskey Cook and Fenton, Editors, Pharmaceutical Press and APhA, 2012.

Chambliss, W.G., Phosphoric Acid; Handbook of Pharmaceutical Excipients, 7th Edition, Rowe, Sheskey, Cook and Fenton, Editors, Pharmaceutical Press and APhA, 2012.

Chambliss, W. G., Carroll, W.A., Kennedy, D., et al., "Role of the pharmacist in preventing distribution of counterfeit medications", JAPhA, 52:2, 195-199; 2012.

Chambliss, W.G., "Counterfeiting and the Integrity of the Supply Chain", American Pharmacists Association, March 10, 2012.

Yelvigi, M. and Chambliss, W., "The Role of a Target Product Profile in Pharmaceutical Product Development", Pharma Times, Vol 42, No. 04:27-29, 2010.

Chambliss, W.G., "Technology Transfer: The Engine of Bioscience", Bioworks Business Association, February 11, 2010.

Chambliss, W.G., 2nd International GIS Cluster Conference, "Licensing Technologies from Universities", January 11, 2010.

Chambliss, W.G., Acetic Acid, Glacial; Handbook of Pharmaceutical Excipients, 6th Edition, Rowe, Sheskey and Quinn, Editors, Pharmaceutical Press and APhA, 2009.

Chambliss, W.G., Sodium Acetate; Handbook of Pharmaceutical Excipients, 6th Edition, Rowe, Sheskey and Quinn, Editors, Pharmaceutical Press and APhA, 2009.

Chambliss, W.G., Phosphoric Acid; Handbook of Pharmaceutical Excipients, 6th Edition, Rowe, Sheskey and Quinn, Editors, Pharmaceutical Press and APhA, 2009.

Oben, J., Enonchong, E., Kothari, S., Chambliss, W., Garrison, R., and Dolnick, D., "*Phellodendron* and *Citrus* extracts benefit cardiovascular health in osteoarthritis patients: a double-blind, placebo-controlled pilot study", Nutr. J., 7:16, May 20, 2008.

Chambliss, W.G., "Formulation Issues Related to Dietary Supplements and Nutraceuticals", Formulation and Stability of Nutraceuticals Roundtable. American Association of Pharmaceutical Scientists Annual Meeting, 2007.

Chambliss, W.G., Course Director & Instructor, "Pharmaceutical Technology Transfer", Center for Professional Advancement, New Brunswick, New Jersey; Dublin, Ireland; Riga, Latvia; and Amsterdam, Netherlands; 2004 to 2015.

Chambliss, W.G., Instructor, "Scale up and Post-Approval Changes Guidelines (SUPAC and BACPAC)", Center for Professional Advancement, New Brunswick, N.J.; Boca Raton, Florida; and Amsterdam, Netherlands; 2004 to 2015.

Chambliss, W.G., Course Director & Instructor, "Pharmaceutical Process Development and Technology Transfer", Center for Professional Advancement, Sao Paulo, Brazil, 2007.

Garrison, R., Chambliss, W., "Effect of a Proprietary Magnolia and Phellodendron Extract on Weight Management: A Pilot, Double-Blind, Placebo-Controlled Clinical Trial, Alternative Therapies in Health and Medicine", Vol. 12, No. 1, 2006.

Chambliss, W.G., Acetic Acid, Glacial; Handbook of Pharmaceutical Excipients, 5th Edition, Rowe, Sheskey and Owen, Editors, Pharmaceutical Press and APhA, 2006.

Chambliss, W.G., Sodium Acetate; Handbook of Pharmaceutical Excipients, 5th Edition, Rowe, Sheskey and Owen, Editors, Pharmaceutical Press and APhA, 2006.

Chambliss, W.G., Phosphoric Acid; Handbook of Pharmaceutical Excipients, 5th Edition, Rowe, Sheskey and Owen, Editors, Pharmaceutical Press and APhA, 2006.

Cheboyina, S., Chambliss, W., and Wyandt, C., "A Novel Freeze Pelletization Technique for Preparing Matrix Pellets", *Pharmaceutical Technology*, October, 100-110, 2004.

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