CENTER FOR DERMAL RESEARCH SEMINAR SERIES REMOTE

The Center for Dermal Research Welcomes

Norman Richardson, BASF Pharma Solutions

"Developing Sustainable Pharmaceutical Dosage Forms"

Monday, November 18, 2024, at 5:30pm EST Remote

Norman Richardson is currently Technical Services Manager at BASF Pharma Solutions, supporting a wide portfolio of excipient chemistries for all dosage forms, with a focus on topical products, in the North America region (USA, Canada, Mexico, Central America). Norman began his industrial career in 1988 at Unilever Research supporting brands such as Dove, Lever 2000, Vaseline Intensive Care lotions and other personal care products. He led and participated in detailed investigations into the metabolism of ingredients on skin, epidermal hyperplasia, deposition of antimicrobials, hydration and biomechanics of the stratum corneum, cellulite fat metabolism and other topics. In 2001 he joined Pfizer Consumer Healthcare and supported numerous NPD projects, supporting all topical product brands by providing technical solutions to complex challenges and managing medical device design control processes.
From 2006 to 2012 he worked for J&J Consumer and Personal Products Worldwide and lead development of topical brands with an emphasis on wound care (e.g. Band Aid Brand) as well as projects identifying new technologies for topical healthcare applications. At BASF (2012-2019) Norman managed the BASF Pharma Skin Delivery Lab at the Tarrytown NY Tech Center, led the development of the Skin Delivery Platform, advanced science to support the topical excipients and expanded BASF's presence in the topicals formulating world. Norman earned a BS in Biology from Montclair State University and MS Biology from Fairleigh Dickinson University.

Abstract

The healthcare industry makes up more than 4.4% of net global climate emissions. Pharmaceutical products represent between 20-33% of health sector emissions. The developer of finished pharmaceutical drug products can take this into consideration, on multiple levels, to develop safe, effective products that meet the increasing social, government, and market demands for more sustainable products. Decisions made during the formulation design process, where product compositions, excipients, API(s), sources, and suppliers are being selected, can have the biggest impact on the finished product sustainability status. Topics like Carbon Footprint (CFP), Process Mass Intensity (PMI), Responsible sourcing (RSPO), Low Product Carbon Footprint (PCF) reagents, and Biomass Balance (BMB) could all play a part in the selection process. Digital tools and available databases can help in the selection of excipients and APIs and accelerate access to relevant registrations and supportive documents. After composition, manufacturing efficiencies should also be taken into consideration. The use of lower energy-demand processing with smart formulation designs or use of co-processed excipients can have a significant impact on the production energy consumption, time and labor.

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