5th Anniversary CENTER FOR DERMAL RESEARCH

TRI Princeton
RESEARCH EDUCATION SERVICE

"RUTGERS' CENTER FOR DERMAL RESEARCH (CDR) SEMINAR SERIES
CO-HOSTED WITH TRI PRINCETON"

Guest speaker: **David J. Moore**

Rutgers, The State University of New Jersey
November 7, 2016 at 5:30pm

"Biophysical Studies of Stratum Corneum Lipid Organization and Barrier Function - Changes Induced by pH, Surfactants and Temperature"

ABSTRACT:

Between 2003 to 2013 I, and several colleagues, undertook a series of biophysical studies at Unilever, ISP, TRI/Princeton, and Rutgers University to investigate the impact on stratum corneum molecular organization of exposure to surfactant solutions of varying pH and chemistry. Subsequent studies also considered the impact of exposure time and temperature on barrier lipid dynamics. This presentation will discuss the biophysical experimental methods used in this work including FTIR spectroscopy, electron microscopy, and impedance while highlighting some of the key findings from our published reports on these studies.

BIOGRAPHY:

Dr. David J. Moore is the global innovation leader for skin health and a senior director of R&D at GSK Consumer Healthcare. Prior to joining GSK, David was an Institute Fellow at TRI-Princeton where he was the first director of the Center for Applied Dermatology. From 1996 until 2011 David worked in the R&D laboratories of Unilever and ISP leading various R&D groups focused on biophysics, measurement methods, and materials science. David has held visiting positions at Rutgers University and Princeton University and served as an industrial advisor to doctoral students at University College London, Stanford University, Princeton University and Rutgers University. In addition to being a regular reviewer for many journals, David is a co-author of over 90 papers and book chapters in the fields of biophysical vibrational spectroscopy and imaging, lipid and membrane biophysics, skin barrier science and topical delivery.

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