

# BASIC SKIN SCIENCE

OCTOBER 8, 2002  
HILTON MONTREAL AIRPORT – DORVAL, QUEBEC, CANADA  
INSTRUCTED BY RANDALL WICKETT, Ph.D.

## COURSE OUTLINE

Skin Science for the Cosmetic Scientist: A course on the structure and function of skin focusing on the stratum corneum (SC) and interaction of surfactants and moisturizers on SC structure and function.

- II. Anatomy of the skin
  - A. The dermis and skin appendages
  - B. The epidermis
  - C. The stratum corneum
- III. Formation of the Stratum Corneum Barrier (Bricks and Mortar Model)
  - A. Measuring the Barrier: Transepidermal Water Loss
  - B. The Bricks: Keratin and Filaggrin
  - C. Formation of the SC cell envelop. (Loricrin and Involucrin)
  - D. Epidermal lipids (covalent and intercellular)
- III. Metabolism in the stratum Corneum
  - A. Conversion of pro-barrier lipids to barrier lipids
  - B. Conversion of filaggrin to Natural
- Moisturizing Factor
- C. Hydrolysis of Desmosomes by Stratum Corneum Chymotryptic Enzyme
- IV. Surfactants and skin
  - A. Surfactant harshness and surfactant structure
  - B. Interaction of surfactants with SC proteins
  - C. Interaction of surfactants with SC lipids
  - D. Mixed surfactant systems
- V. Skin moisturization
  - A. Water and the Stratum Corneum
  - B. Humectants: Glycerin, urea and PCA
  - C. Occlusive Agents: Petrolatum and mineral oil
  - D. Alpha hydroxy acids and salicylic acid

### FEES

	Early Fee	Late Fee (After 09/23/02)
SCC Member	\$225.00	\$250.00
SCC Student Member	\$150.00	\$175.00
Non-Member	\$275.00	\$300.00

### About The Instructor

**Randall Wickett, Ph.D.** Obtained his Ph.D. in Biophysics from Oregon State University of Corvallis Oregon in 1972 and was a Postdoctoral Fellow at the University of Minnesota in the Department of Chemistry, from 1972-1974. He worked at Proctor & Gamble's Miami Valley Laboratories from 1974 to 1985 and in the department of Dermal Research, S.C. Sjohnson & Son, Inc. from 1985-1991. He joined the University of Cincinnati College of Pharmacy as Associate Professor of Pharmaceutics and Cosmetic Science in 1991 and was promoted to the rank of Professor in 1998. He also serves as a consultant to several major skin and hair companies. Dr. Wickett is a Fellow of the Society of Cosmetic Chemists (SCC) and has received numerous SC technical awards including the Maison G. de Navarre Medal Award, the SCC's highest award for technical achievement. He was also editor of the Journal Of The Society of Cosmetic Chemists from 1991 to 1997.

- Course hours: 9:00 A.M. – 5:00 P.M.
- Registration fee includes all course materials, lunch, coffee & beverage breaks.
- Registrants must make hotel accommodations on their own, if needed. Contact the Hilton Montreal Airport at (514) 828-4248. These rates are available for a limited time so

- please make your reservations by 09/23/02.
- Fees for the course are transferable but not refundable after 10/01/02.
- All checks are to be paid in U.S. Dollars drawn on a bank with an address in the United States and made payable to The Society Of Cosmetic Chemists.**

If five or more employees from the same company register for the same course, they may deduct \$25.00 from each registration. The deadline for cancellation of registration is three weeks prior to the first day on which the class is scheduled.

**NOTE: The SCC reserves the right to cancel any course for which there is insufficient registration. A full refund will be issued in this circumstance.**

# SCC

## 2002 REGISTRATION FORM

REGISTRATIONS CAN BE SENT TO SCC VIA:

**MAIL:**  
**Society of Cosmetic Chemists**  
**120 Wall Street, Suite 2400**  
**New York, NY 10005-4088**

**FAX:**  
**(212) 668-1504**

American Express, Visa and Master Cards are accepted for payment. All Checks should be made payable to Society of Cosmetic Chemists. Please type or print your name, as you want it to appear on your badge and certificate. Reproduce this form for additional registrations. \*All courses must be paid in full before course date. **DO NOT ASSUME YOU ARE REGISTERED UNLESS YOU RECEIVE A PRINTED CONFIRMATION BY MAIL OR FAX.**

Course Title	Date	Course Fee
	<b>TOTAL ENCLOSED</b>	

**NOTE: ALL CHECKS ARE TO BE PAID IN U.S. DOLLARS DRAWN ON A BANK WITH AN ADDRESS IN THE UNITED STATES AND MADE PAYABLE TO THE SOCIETY OF COSMETIC CHEMISTS.**

**CIRCLE CHOICE:          VISA                          MASTER CARD                          AMERICAN EXPRESS**

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**QUESTIONS? Phone Doreen Scelso at the SCC National Office at (212) 668-1500**

**FOR SCC USE:**

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