APRIL 3, 2012 - SHERATON NEWARK AIRPORT HOTEL, NEWARK, N.J. - INSTRUCTED BY RANDY WICKETT, Ph.D.

This basic course on skin anatomy, function and evaluation methods is designed for cosmetic chemist. There will be focus on how the structure of skin influences its interaction with products and how those interactions influence measurable properties of the skin.

I. Basic Skin Anatomy
   A. The Dermis and Skin Appendages
      1. Collagen, Elastin and GAGS
      2. Photodamage-Ultraviolet C light and skin aging
      3. Hair, Sweat Glands and Nails basic anatomy
   B. The Epidermis and its layers
      1. The basal layer, keratinocytes and epidermal renewal
      2. Skin color basics
      3. Allergic contact dermatitis basics
      4. The Stratum Granulosum and the formation of the stratum corneum
      5. The Bricks and Mortar Model of Stratum Corneum Barrier Function

II. Basic Bioengineering Methods for Skin Evaluation
    A. Transepidermal Water Loss (TEWL) and the skin barrier
    B. Electrical measurements for moisturizer testing
    C. Mechanical Properties, stretching
    D. Skin pH

III. Moisturizers and anti-aging products
    A. Classical Moisturizers

ADVANCED SKIN SCIENCE

APRIL 4, 2012 – SHERATON NEWARK AIRPORT HOTEL, NEWARK, N.J. – INSTRUCTED BY RANDY WICKETT, Ph.D.

Overview: This advanced course will cover various aspects of skin biochemistry and molecular biology including the Stratum Corneum barrier, epidermal differentiation, aquaporins and tight junctions in the skin, Proxisome Proliferator-Activated Receptors (PPARs), skin pigmentation and skin aging and photo-aging. It is assumed that the student will already have basic knowledge of biochemistry and skin structure, function, and physiology.

I. The Epidermis
   a. Brief overview of skin structure
   b. The dermal epidermal junction
   c. Stem cells and cell renewal in the epidermis
   d. Epidermal Keratins
   e. Desmosomes in the epidermis
   f. PPARs and epidermal differentiation and homeostasis
   g. Molecular models of the SC barrier-Beyond Bricks and Mortar

II. The Stratum Corneum (SC) Barrier
    a. Keratins and filament formation
    b. Structure and formation of the cornified cell envelope
    c. Filaggrin hydrolysis and natural moisturizing factors
    d. SC barrier lipids
    e. SC barrier homeostasis and lipid metabolism in the SC
    f. SC desmosomes and the complex proteolytic cascade in the SC
    g. Aquaporins in the epidermis
    h. Tight Junctions in the epidermis

IV. Surfactant Skin Interactions
    A. Mildness Testing Protocols
    B. Proposed irritation mechanism
    i. Protein denaturation and swelling tests
    ii. Lipid extraction
    iii. Lipid disordering
    iv. Skin Penetration and cell destruction
    C. Moderation of Harshness
    d. Structure modifications ethoxylation etc.
    e. Mixing systems

III. Skin Pigmentation
    a. Melanocytes and melanin disorders
    b. Melanosynthesis and translocation
    c. Constitutive and facultative pigmentation
    d. Factors Determining Skin Color

IV. Skin Aging and Photo-Aging
    a. The dermal matrix
    b. Intrinsic aging
    c. Acute effects of sun on skin
    d. Reactive oxygen species
    e. The MAP Kinase pathway and MMPs
    f. Photoaging in histology
    g. Brief review of molecular biology of skin cancer

1 DAY FEE - Attend either Tuesday or Wednesday

<table>
<thead>
<tr>
<th></th>
<th>Early Fee</th>
<th>Late Fee (After 03/20/12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCC Member</td>
<td>$350.00</td>
<td>$400.00</td>
</tr>
<tr>
<td>SCC Student Member</td>
<td>$200.00</td>
<td>$225.00</td>
</tr>
<tr>
<td>Non-Member</td>
<td>$475.00</td>
<td>$525.00</td>
</tr>
</tbody>
</table>

2 DAY FEE – Attend both days Tuesday and Wednesday

<table>
<thead>
<tr>
<th></th>
<th>Early Fee</th>
<th>Late Fee (After 03/20/12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCC Member</td>
<td>$550.00</td>
<td>$600.00</td>
</tr>
<tr>
<td>SCC Student Member</td>
<td>$275.00</td>
<td>$300.00</td>
</tr>
<tr>
<td>Non-Member</td>
<td>$675.00</td>
<td>$725.00</td>
</tr>
</tbody>
</table>

About The Instructor

RANDY 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 Dermatology, 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. Johnson & 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 SCC 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 and Past President for the National SCC.

-Course hours: 9:00 A.M. – 5:00 P.M.
-Registration fee includes all course materials, lunch, coffee & beverage breaks.
-Fees for the course are transferable but not refundable after 03/28/12.
-Applications who do not transfer to attend a different course will be subject to a $50.00 administration fee.
-Registrants must make hotel accommodations on their own, if needed.
-Contact the Sheraton Newark Airport Hotel, 128 Frontage Road, Newark, NJ. at 973-849-5003. The SCC has blocked a limited number of guest rooms at a discounted rate. These rates are available for a limited time only, so please make your reservations before 03/03/12.

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.
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.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Date</th>
<th>Course Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL ENCLOSED

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.

*CPLEASE PRINT CLEARLY*

CIRCLE CHOICE: VISA       MASTER CARD       AMERICAN EXPRESS

Card No.________________________________ Exp. Date________________________

Signature________________________________ EMAIL: _________________________

NAME________________________________ PHONE________________________(EXT)____

COMPANY______________________________________________________________

ADDRESS______________________________________________________________

CITY____________________ STATE_________________________ ZIP____________

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

FOR SCC USE:

Rec’d______ Company________ Amount________ Check #________ Acct#________________

FOR SCC USE: