SOCIETY OF COSMETIC CHEMISTS
CONTINUING EDUCATION PROGRAM

MAY 3, 2013
ANTI-AGING PHYSIOLOGY AND TECHNOLOGIES
FOR THE COSMETIC CHEMIST

JUNE 5, 2013
ADVANCED EMULSIONS

JUNE 5, 2013
BIO CHEMISTRY OF THE SKIN

JULY 23, 2013
CREATIVE THINKING AND INNOVATION

SEPTEMBER 12, 2013
THE COSMETIC FORMULATION PROCESS

SEPTEMBER 12, 2013
ORGANIC CHEMISTRY FOR COSMETIC CHEMISTS

SEPTEMBER 23, 2013
BASIC CELL BIOLOGY, SKIN CELLS & CELL – TARGETED INGREDIENTS

OCTOBER 23-24, 2013
ANTIPERSPIRANT AND DEODORANT TECHNOLOGY

OCTOBER 23-24, 2013
INTRODUCTION TO POLYMER SCIENCE AND ITS APPLICATIONS
IN THE COSMETIC INDUSTRY

NOVEMBER 14, 2013
SKIN DISEASES AND DERMATOPHARMACOLOGY

NOVEMBER 14-15, 2013
REGULATORY UPDATE
This visionary course on theories of aging, extrinsic and intrinsic aging skin physiology, targets for anti-aging therapy, and anti-aging technologies is designed for the cosmetic chemist. It begins with an understanding of aging, progressing to state-of-the-art aging science, and finally discussing the application of anti-aging technologies.

1. Theories of Aging
   a. Evolutionary Theory
   b. Free Radical/Anti-Inflammatory Theory
   c. Somatic Mutation/Gene Regulation Theory
   d. Mitochondrial Theory
   e. Telomere Theory
   f. Immune Network Theory
   g. Neuroendocrine Theory

2. Intrinsic vs. Extrinsic Aging Skin Physiology
   a. Intrinsic Aging
      i. Oxidative Insults
      ii. Epigenetic Changes
      iii. Glycation
   b. Extrinsic Aging
      i. Photodamage
      ii. External Reactive Oxygen Species (ROS) Species
      iii. Melanin Protective Effects
      iv. Gender Differences
      v. Fitzpatrick Skin Type Differences

3. Targets for Anti-Aging Therapy
   a. Reactive Oxygen Species (ROS)
   b. Sirtuin Modulation
   c. Glycation
   d. Epigenetic Changes
   e. TOR and Aging

4. Anti-Aging Technologies
   a. Cleansers and Moisturizers
      i. Barrier Function
      ii. Barrier Repair
      iii. Skin Moisturization
   b. Sunscreens
      i. Endogenous Photoprotection
      ii. Inorganic vs. Organic Filters
      iii. Nanoparticles
   c. Cosmeceuticals
      i. Antioxidants
      ii. Glycomeconomics
      iii. Proteonomics
      iv. Genomics
   d. Nutraceuticals
      i. Anti-aging Nutrition
      ii. Caloric Restriction Models
      iii. Diet and Epigenetic Changes
      iv. Nutritional Supplementation and Aging

5. Visioning for the Future of Aging Science in Cosmetic Chemistry

### FEES

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**About The Instructor**

Dr. Zoe Diana Draelos, MD, is a board certified dermatologist with 30 years research experience in the pharmaceutical and skin care industry. She is presently Vice President of the American Academy of Dermatology. She has effectively bridged the worlds of medicine and industry by serving as Editor-in-Chief of the Journal of Cosmetic Dermatology and writing three cosmetic dermatology textbooks that have been translated into 7 languages. She is the author of over 300 scientific publications and an active international lecturer and teacher.

- Fees for the course are transferable but not refundable after 04/26/13. Applications who do not transfer to attend a different course will be subject to a $50.00 administration fee.
- 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.

- Course hours: 9:00 A.M. – 5:00 P.M.
- Registration fee includes all course materials, lunch, coffee & beverage breaks.
- Parking fees not included
- Registrants must make hotel accommodations on their own, if needed. Contact the DoubleTree Airport Hilton at (973) 690-5500. The SCC has blocked a limited number of guest rooms at a discounted rate. Indicate to reservation agent that you will be attending this SCC function. These rates are available for a limited time so please make your reservation by 04/03/13.

If five or more employees from the same company register for the same course, they may deduct $25.00 from each registration. If ten or more register they may deduct $50.00 from each registration. All registration forms must be received together along with payment.

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.
ADVANCED EMULSIONS

ANNUAL SCIENTIFIC SEMINAR COURSE

JUNE 5, 2013
UNION STATION MARRIOTT, ST. LOUIS, MO
INSTRUCTED BY ROBERT LOCHHEAD, Ph.D.

COURSE OUTLINE

FUNDAMENTALS OF EMULSIONS

This will be a non-mathematical course aimed at increasing the understanding for emulsion formulators, processors and users.

• Emulsion basics (o/w, w.o, w.o.w)
• Stability testing
• Raw material basics (thickeners, emulsifier, “oils” preservatives, specialty additives, etc.)
• Manufacture/procedures
• Special topics (Low Energy Emulsification, PIT, water solubilization, HLB)
• Formulation basics
• Formulation review of commercial products

HOW EMULSIONS ARE FORMED

• The fluid dynamics of emulsions
• Factors which determine ultimate droplet size

ROUTES TO EMULSION STABILITY

• The role and limitations of ionic charge
• HLB and Phase Inversion Temperature
• Stabilization by Liquid Crystals -adsorption and competition for the droplet surface

THE RHEOLOGY AND SURFACE SCIENCE OF EMULSIONS

• The Emulsion as a Delivery Vehicle -triggered breaking, spreading, wetting and penetration

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About The Instructor

Robert Lochhead, Ph.D. is Professor and Director of the School of Polymers and High Performance Materials at the University of Southern Mississippi. Prior to joining the University, Dr. Lochhead was R&D Manager, Hydrophilic Polymers, B.F. Goodrich. Dr. Lochhead has served as Chair of the Committee on Scientific Affairs and SCC President. Lochhead was the recipient of the 2000 Maison G. DeNavarre Medal and the American Institute of Chemists’ 2012 Chemical Pioneer award.

-Course hours: 9:00 A.M. – 5:00 P.M.
-Registration fee includes all course materials, lunch, coffee & beverage breaks.
-Parking fees not included
-Check the SCC website at www.scconline.org for hotel information.

-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 SOCIETY OF COSMETIC CHEMISTS.
This is an advanced course on Biochemistry of the Skin. A brief review of the basics of skin structure and function will be covered. Students should have a basic understanding of cell biology and biochemistry.

**Biochemistry of the Dermal Matrix**
- Fibroblasts and Mast Cells
- Collagen, Structure, Formation and Cross-linking
- Elastin
- Glycosaminoglycans (GAGs)

**Biochemistry of the Epidermis**
- Overview of epidermal layers
- Structure of the Dermal Epidermal Junction
- The basal layer and skin stem stem cells
- Keratins, structure, function and disorders
- Aquaporins in the epidermis
- Tight Junctions in the epidermis
- The Stratum Granulosum
  - Keratohyalin and lamellar granules
  - Programed cell death
- Formation of the bricks and mortar of the SC
  - Transglutaminase and the SC Cell Envelope
  - SC Lipids and Barrier Formation

**Biochemistry of the SC Barrier**
- Conversion of pro-barrier lipids to barrier lipids
- Natural Moisturizing Factors of the SC
- SC Desmosome Formation and Breakdown
- Breakdown and Repair of the SC barrier

**Biochemistry of Skin Color**
- Melanocytes, Melanosomes and pigment production
- The MCR1 receptor and skin color
- Genetics of skin color
- Skin lightening agents

**Skin Aging and Photo-Aging**
- Intrinsic Aging – Effect on SC and Dermis
- Photo-aging VEGF and blood vessel growth
- The MAP Kinase Pathway and MMP production
- Histological changes with photo-aging

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**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 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.

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INSTRUCTED BY JOHN P. McCOOK

COURSE OUTLINE

- Creative Thinking and Innovation—definitions and the keys to expanding creativity in your professional and private life
  This section of the course will give a general overview of creative thinking and innovation and the use of creative thinking as a key element in the development of new products and product and process improvements. The overview will focus on how to personally increase those factors that stimulate creativity and foster innovation and identify those personal and professional factors that block or reduce creative thinking as well as ways to deal with them.

- Management of the Creative Process: Ways to Foster or Kill Innovation
  As managers, we can create an environment that fosters and accelerates innovation or one that stifles creativity. This section will give an overview of organizational behavior that encourages the creative process based on personal experience in leading creative R&D organizations as well as common characteristics and examples of innovative organization in various industries.

- Creative Thinking Techniques:
  Literally dozens of different techniques have been used to generate new ideas. A review of the more common idionation methods will be presented with an in-depth discussion of brainstorming, idea building and stimulation and techniques such as “SCAMPER” and “MMRCC” with examples of how these techniques can be used to generate practical and unique solutions to everyday problems and be used to develop exciting new product concepts.

- Creative Exercises; various techniques to stimulate the creative process and generate new ideas and product options against goals
  - Stage One: Using the solo brainstorming process
    Each participant will be asked to generate a list of solutions to several common problems facing a large proportion of the population both with and without the use of certain brainstorming stimulus techniques presented.

  - Stage Two: Group brainstorming and idea building techniques
    The optimum dynamics for group brainstorming will be discussed followed by two group exercises focused on developing innovative product concepts for a consumer product category.

  - Stage Three: Comparing Solo and Group/interactive idea generation techniques and application to the innovation process.
    Depending on time available, the power of using systematic inventive thinking techniques vs. open-ended brainstorming will be explored by participants both alone and in group sessions.

- The Sorting Process; techniques to identify the “best” product idea
  - Building an attribute and value matrix
  - Scoring and selection

  This section of the course will present methods for selecting the “best” product ideas in terms of those most likely to be developed into new commercial products that succeed in the marketplace. Product ideas generated by the group exercises will be rated according to a value matrix.

- Summary – The Innovation Process: Dream, Discover, Do It
  - Step One: The Dream; developing innovative goals.
  - Step Two: Discovery; identification of the technology that can realize the goals.
  - Step Three: Implementation; making it a reality.

  The summary will discuss how the creative thinking process can be utilized in each step of innovation to add greater value.

Summary Review/Wrap-Up
A question and answer session will end the course and a recommended list of text and web references for further reading on the subjects of Breakthrough Thinking, Innovation, and Creativity will be made available to course participants.

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About The Instructor

John McCook is a Co-founder of Berg Pharma, LLC (www.bergpharma.com) where he served as Executive Vice President & Chief Operating Officer until 2013. In that capacity, he managed Berg Pharma product development, pre-clinical & clinical, regulatory, quality and drug manufacturing operations. Most notably, McCook, a renowned formulator led pre-clinical formulation and API development and is co-inventor of topical, intravenous, and nebulized delivery systems of Berg Pharma lead oncology compound API 31510. In addition, McCook holds numerous US and International issued and pending patents in cancer, endocrinology, chemotoxicity, dermatology, cosmeceuticals, and drug delivery systems. Mr. McCook currently is COO, Ementus of Berg Pharma and advises executive management on drug development, regulatory and clinical management areas. Immediately prior to joining Berg Pharma, Mr. McCook served as CEO and Founder of Discovery Partners, LLC, a product development and licensing Company for topical pharmaceutical technologies. McCook has previously served as Senior Vice President of Research & Development and a member of the Board of Directors of Elizabeth Arden Company, a division of Unilever, PLC. He served in various technical management capacities for both domestic and international markets for over 27 years with Unilever, PLC operating companies. A graduate of the Massachusetts College of Pharmacy, he is a Registered Pharmacist and has over 40 years of process development, product development and technical management experience for personal care products, Rx and otc pharmaceuticals, and medical devices. His product development and technical focus over the last 3 decades has been in the area of skin care and topical delivery systems where he has led the commercial development of scores of novel skin care products.

-Course hours: 9:00 A.M. – 5:00 P.M.
-Registration fee includes all course materials, lunch, coffee & beverage breaks.
-Parking fees are not included.
-Registrants must make hotel accommodations on their own, if needed. Contact the DoubleTree Newark Airport Hotel, 128 Frontage Road, Newark, NJ at (973) 690-5500. The SCC has blocked a limited number of guest rooms at a discounted rate. Indicate to reservation agent that you will be attending this SCC function.

These rates are available for a limited time so please make your reservations by 06/23/13.
-Fees for the course are transferable but not refundable after 07/16/13. Applications who do not transfer to attend a different course will be subject to a $50.00 administration fee.
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THE COSMETIC FORMULATION PROCESS

SEPTEMBER 12, 2013
DOUBLETREE NEWARK AIRPORT HOTEL, NEWARK, NJ
INSTRUCTED BY PERRY ROMANOWSKI

COURSE OUTLINE

Objective: To explain a process by which cosmetic chemists can create formulations that can match or exceed the performance of competitive benchmarks.

Who should attend: This class will appeal to a wide variety of people in the cosmetic industry. Beginning formulation chemists and QA/QC chemists will get the fundamentals of formulating various product types including skin, hair, and color cosmetics. Seasoned chemists who have focused on one area of formulation can learn some practical tips that will decrease their product development time.

This course will be divided into three sections including Preliminary Research, Prototype Development and Product Testing.

Preliminary Research – Reviews the process by which competitive benchmarks are identified and preliminary formulations are developed.
  • How to identify market leading formulas
  • Analyzing ingredient lists
  • Using claims for formulation clues
  • Identifying the critical formulation characteristics
  • Analytical breakdown of a cosmetic formulation

Prototype Development – Reviews the process creating prototypes that can match or exceed the performance of desired benchmarks
  • Finding starting formulas
  • Gleaning information from patents
  • Leveraging suppliers
  • Creating prototypes
  • Ingredient equivalents

Product Testing – Reviews the process by which prototypes are evaluated and revised based on feedback
  • Lab evaluation of formulations
  • Trained panel prototype evaluation
  • Paired comparison and triangulation studies
  • Small scale consumer testing

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About The Instructor

Perry Romanowski is the Vice President of Brains Publishing specializing in the creation of information products including websites, traditional books, ebooks, audio and video focusing on science and its application to the real world. He has numerous publications to his credit including “Beginning Cosmetic Chemistry”. Perry has a Masters Degree in Biochemistry from DePaul University and is an active member of the Society of Cosmetic Chemists.

*Parking fees are not included.

These rates are available for a limited time so please make your reservations by 08/12/13. Fees for the course are transferable but not refundable after 09/05/13. Applicants who do not transfer to attend a different course will be subject to a $50.00 administration fee.

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ORGANIC CHEMISTRY FOR COSMETIC CHEMISTS

SEPTEMBER 12, 2013
DOUBLETREE NEWARK AIRPORT HILTON, NEWARK, N.J.
INSTRUCTED BY TONY O’LENICK AND THOMAS O’LENICK

COURSE OUTLINE

Organic chemistry is a course everyone remembers taken, but many forget the content. This course is designed to review organic chemistry, but to make it relevant to the cosmetic industry.

The course is designed to provide the chemist with a more in depth understanding of the chemistry used to make the raw materials used in formulation.

This course presents reactions used to make many of the compounds used in formulations are classified by reaction type with examples from each. The raw materials, reaction products and specifications will also be presented.

The implications of the reaction to specifications will also be addressed, including “salient specifications”.

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About The Instructors

Tony O’Lenick is President of Siltech LLC., located in Lawrenceville, Ga. Siltech is a silicone specialty company. Prior to that he held technical and executive positions at various surfactant and specialty chemicals companies including: Alkaril Chemicals Inc, Henkel Corporation and Mona Industries. He has been involved in the personal care industry for over 35 years and is a Fellow in the Society of Cosmetic Chemists. Tony is the author of Surfactants Chemistry and Properties; Silicones for Personal Care, Organic Chemistry for Cosmetic Chemists, Oils of Nature, Patent Peace of Mind and has edited several books including Naturals and Organics in Cosmetics: Trends and Technology, Microorganisms and Cosmetics, Formulating Strategies in Cosmetic Science. He has also published over 40 technical articles in trade journals, contributed chapters to five books, and is the inventor on over 300 patents and teaches a course in Silicone Chemistry for the SCC. He has received a number of awards for work including the 1996 Samuel Rosen Award given by the American Oil Chemists’ Society, the 1997 Innovative Use of Fatty Acids Award given by the Soap and Detergents Association, and the Partnership to the Personal Care Award given by the Advanced Technology Group. Tony was a member of the Committee on Scientific Affairs of the Society of Cosmetic Chemists.

Tony O’Lenick, Ph.D. is Technical director of SurfaTech Corporation in Lawrenceville, Ga. SurfaTech Corporation is a specialty chemical company specializing in natural derived sustainable polymers. He has been involved with the Society of Cosmetic Chemists for 8 years as both a student and full time member. Thomas received his B.S. degree in Chemistry from Georgia Southern University in August 2005. He received his Doctor of Philosophy Degree in Polymer Chemistry from the University of Tennessee in May, 2011. Thomas is an author of Organic Chemistry for Cosmetic Chemists, and has published 12 technical articles in trade journals and is an inventor on over 15 patents. He has received several awards for his work including the 2010 Burchfield Burridge Warner Graduate Fellowship in Chemistry Award.


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BASIC CELL BIOLOGY, SKIN CELLS & CELL – TARGETED INGREDIENTS

SEPTMBER 23, 2013
LONG BEACH HILTON HOTEL, LONG BEACH, CA

INSTRUCTED BY REBECCA JAMES GADBERRY

COURSE OUTLINE

The cell is the fundamental unit of the skin. Indeed, it is the source of all skin tissue. This course is an overview of basic cell biology, key skin cells and cell-targeted ingredients designed to affect specific cell functions. Cosmetic chemists, product developers, marketers, raw material suppliers, trainers and others should find the material highly applicable and appropriate to their individual interests regardless of their science background.

Introduction to The Cell
Cell Theory
Prokaryotes, Archaea & Eukaryotes
Overview of Human Cell Organelles & Their Functions
Nucleus
Nucleolus & Ribosomes
Endoplasmic Reticulum (Rough & Smooth)
Golgi Complex
Lysosomes
Cytoplasm
Cytoskeleton
Mitochondria
Microtubules & Motor Proteins

Cell Metabolism
The Fluid Membrane
Membrane Structure & Function
Membrane Transport
Aquaporins
Effect of Oxidation on Cell Membranes
Receptors
Chirality
Cell Signaling & Communication
Cell Junctions & Adhesion

The Nucleus
Nuclear Membrane
The Genome
Chromosomes, Chromatin, DNA & RNA
Transcription & Translation
Key Genes in Skin Care
Protein Synthesis
Endogenous Antioxidant Enzymes

The Cell Cycle
P53
Sirtuins
Cell Death: Necrosis & Apoptosis

Telomeres
Cell Senescence
DNA Protection, Damage & Repair: A Very Brief Overview
Mitochondria: The Cell’s Primary Source of Energy & Free Radicals
Mitochondrial DNA
Energy Up-Regulation
Mitochondrial Antioxidants

Lysosomes
Lipofuscin
Proteosomes
Autophagosomes

The Epigenome
Epigenome Defined
Primary Epigenetic Mechansims: Methylation & Histone Modification
The Effects of Environment & Inheritance on the Epigenome
CLOCK Genes & Cellular Circadian Rhythms

Stem Cells
Embryonic to Terminal Stem Cells
Role of Stem Cells in the Skin
Protecting & Activating Stem Cells

Distribution & Functions of Major Skin Cells
Distribution & Functions of Major Skin Cells
Distribution & Functions of Major Skin Cells

About The Instructor

Rebecca James Gadberry is widely recognized as one of the skin care industry’s leading ingredient authorities. An award-winning journalist, skin care developer, licensed esthetician and one of the industry’s most dynamic educators, Rebecca has been the senior instructor and program director of the highly acclaimed User-Friendly Ingredient Series at UCLA Extension since 1986, is a past-chairman of the California Chapter of the Society of Cosmetic Chemists, and is CEO of YG Laboratories, formulators and manufacturers of ‘next generation’ skin care for prestige, professional and medical brands worldwide.

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- Course hours: 9:00 A.M. – 5 P.M.
- Registration fee includes all course materials, lunch, coffee & beverage breaks.
- Parking fees are not included.
- Registrants must make hotel accommodations on their own, if needed. Contract the Hilton Long Beach Hotel, 701 W Ocean Blvd., Long Beach, CA at 1-800-HILTON and mention the group code SKIN.
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COURSE OUTLINE

This course should be of value of those working with cosmetic/toiletry products focused on antiperspirant and deodorant applications, as well as those in industry and research laboratories interested in a basic understanding of the technologies and clinical aspects of these products. The course is intended for both entry level development personnel as well as experienced individuals who want an up-to-date refresher on regulations, chemistry, formulations, processing, etc., for an FDA regulated product.

1. Historical Perspective
2. Global Market Review
3. Fundamental Information
   - Nomenclature
   - Classifications
   - Monograph
   - Labeling
4. Clinical Efficacy Considerations
5. Regulatory Requirements
6. Physiology and Mechanisms of Action
   - In-Vivo Mechanism of Antiperspirancy
   - General Chemical Properties of Antiperspirants Related to In-Vivo Performance
     - Deodorancy
7. Antiperspirant Actives
   - Synthesis of Al and Al/Zr Actives
   - Characterization (HPLC, HPLC/LS, HPLC/ICP, NMR, MS)
   - Important Features of Al and Zr Chemistry in AP Actives
     - Enhanced Efficacy Actives (Al and AZG)
     - Chemical and Physical Stability Issues
8. Formulation Considerations
9. Literature References
10. Open Group Discussion

FEES

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About The Instructors

Philip Klepak is Global Director of Technical Services for the antiperspirant business of Summit Research Labs, Inc. He received a Bachelor of Chemical Engineering Degree from the City College of New York, and has been involved with the technical aspects of cosmetic/toiletries, OTC pharmaceuticals, and specialty chemicals for forty eight years. Past experience includes product/process development positions at Procter & Gamble, Johnson & Johnson, Shulton, and American Home Products (now Wyeth). He has been associated with the antiperspirant/deodorant industry, first with Reheis Inc., and now with Summit Research Labs, Inc., for over twenty four years. He has held several Board positions with the New York Chapter and has published articles and presented papers at numerous global scientific meetings.

Allan Rosenberg, Ph.D. founded AR Associates LLC in 2009 and works exclusively for Summit as an consultant overseeing R&D operations. During his career he has worked with Summit Research Labs, Bristol Myers Corporation and Allied Chemical Corporation. He received his B.S. Chemistry from City College of New York and his Ph.D. in Physical Chemistry from Yale University. His areas of research cover: Aluminum and Zirconium chemistry, Macromolecular characterization techniques including Chromatography, Light Scattering and NMR, Surface Chemistry, Stability, Pharmacokinetics and absorption of OTC analgesics, Kinetics of high temperature degradation of refrigerant compounds. He has authored several technical papers, patents and books as well as oral presentation at SCC, In-Cosmetics and ACS meetings and symposiums.
- Course hours: 9:00 A.M. – 5:00 P.M.
- Registration fee includes all course materials, lunch, coffee & beverage breaks.

*Parking fees are not included.*

- Registrants must make hotel accommodations on their own, if needed. Contact the DoubleTree Newark Airport Hotel, 128 Frontage Road, Newark, NJ at (973) 690-5500.
- The SCC has blocked a limited number of guest rooms at a discounted rate. Indicate to reservation agent that you will be attending this SCC function. These rates are available for a limited time so please make your reservations by 09/24/13.
- Fees for the course are transferable but not refundable after 10/16/13. Applications who do not transfer to attend a different course will be subject to a $50.00 administration fee.
- 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 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. If ten or more register they may deduct $50.00 for each registration. All registration forms must be received together along with payment.

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COURSE OUTLINE

Polymers represent one of the major classes of materials used in cosmetic formulations. There are a wide variety of polymers used in a broad range of functions in this industry and a basic understanding of polymer structure – property relationships is an essential tool for the cosmetic formulator. This course addresses the need to introduce formulators and suppliers to cosmetic polymers. The course will be pragmatic, but polymer science theory will be woven into the applications.

Course participants can expect to emerge from this course with knowledge of most of the polymers used in the industry, the reasons for their specific use in formulation, an introduction to the underlying theory, and information on industry trends with these materials.

- Overview of Polymers in Cosmetics
- Film Formers for Hair Fixatives and Styling
- Film Formers for the Skin Care and Color Cosmetics
- Conditioning Polymers in Hair and Skin
- Cationic Polymers
- Silicones
- Emollient Polymers
- Rheology Modification
- Rinse-Off Surfactant Systems
- Leave-Ons Emulsion Systems
- Polymeric Emulsifiers

FEES

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About The Instructors

**Michael J. Fevola, Ph.D.** is currently an Associate Research Director & Fellow at Johnson & Johnson Consumer & Personal Products Worldwide, Skillman, NJ, where he leads the Polymer & Surface Chemistry innovation platform. He holds a B.S. in Chemistry from the University of Delaware, and he received his Ph.D. in Polymer Science & Engineering from the University of Southern Mississippi in 2003 for his studies of stimuli-responsive water-soluble polymers. Dr. Fevola has authored 12 peer-reviewed articles and book chapters, is an inventor on 12 U.S. Patents, and has been an invited symposium speaker of the American Chemical Society and the Society of Cosmetic Chemists (SCC). He is a recipient of the 2009 SCC Award for Best Paper, the Philip B. Hofmann Research Scientist Award of Johnson & Johnson, and the Johnson Medal for Research & Development. He serves as a member of the Personal Care Products Council’s International Nomenclature Committee and the SCC’s Committee on Scientific Affairs.

**Dr. Andrea V. Greyson** received a B.S. in Chemistry from Valparaiso University and a Ph.D. from Northwestern University for her work in physical environmental chemistry. Andrea joined Rohm & Haas (now owned by Dow Chemical) in 2006 and did research in a variety of specialty chemical fields ranging from coatings to wood composite products. In 2011, Andrea transferred into Dow’s Personal Care Research Department has lead a wide variety of successful projects developing novel polymers for use in both hair and skin products.

Course hours: 9:00 A.M. – 5:00 P.M.
Registration fee includes all course materials, lunch, coffee & beverage breaks.

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COURSE OUTLINE

Who should attend: Cosmetic chemists, formulators/development chemists, skin scientist involved in claims substantiation, clinical scientists in cosmetic companies and general scientists in the cosmetic industry, young scientists in the cosmetic industry, scientists in dermatology research in pharmaceutical companies.

Overview:

Skin Structure and Function, Skin Appendages

Ichthyosis Dry Skin/Winter Xerosis, Skin Moisturization, Skin Instrumental: TEWL, Cutometer (Conductance/Capacitance, and Prolifometry/Skin Replica: Other Assessments (Comedogenicity, Desquames, Sensory)

Skin Lipid and Associated Abnormalities

Aging Skin (Intrinsic & Chronological Aging), Mechanisms (Free Radicals/Antioxidants & UV Damage/Photocarcinogenesis, MMPs, Transforming Growth Factor Beta, Estrogens, Angiogenesis)

Aging Skin – Treatment Strategies: Sun Damage and Sunscreens, Retinoic acid, BoTox, Chemical Peels, Laser Treatments, Naturals

Tanning/Whitening, Melanogenesis

Immunology, Irritation and Allergic Contact Dermatitis, In Vitro Irritation, Standard Toxicology Tests: Acute (LD50) and Chronic Toxicity, Mutagenicity, Reproductive Toxicity

In Vivo Safety Testing, Cumulative Irritation (Patch) Testing, RIPT, Photoallergy and Phototoxicity; Alternatives to Animal Testing – Issues EU

Other Skin Pathologies: Eczema, Psoriasis, Fungal Infections, Viral (Warts), Skin Cancers, etc...

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About The Instructor

Linda D. Rhein, Ph.D. received her B.S. in Chemistry and her M.S. and Ph.D. in membrane and lipid biochemistry from the University of Maryland and conducted postdoctoral research at the University of Pennsylvania in the area of mechanisms of sensory reception. She is currently employed at Bayer HealthCare in global drug safety focusing on dermatologics and on Rx to OTC switches. Her most recent past positions included Novartis where she conducted research on antifungals and stretch marks, L’Oreal where she studied aging skin and secured approval of new mexoryl sunscreen NDAs, GlaxoSmithKline where her research focused on milder acne treatments, sebum macromolecular structure and use of PPARs for barrier repair and at Colgate Palmolive where she led advanced technology and clinical research in areas of surfactant irritation and skin lipids. She also is an adjunct professor at Fairleigh Dickinson University. She has published over 50 scientific papers in skin research and is the editor of several books, most recently Aging Skin – Current and Future Therapeutic Strategies published by Allured in 2009. Dr. Linda Rhein is past President of the Society of Cosmetic Chemists, is past editor of the Journal of Cosmetic Science, and has received numerous awards from that society, the most notable was the Literature Award for excellence in publications relevant to cosmetic science. She is noted for her research in skin lipids, mechanisms of moisturization and surfactant irritation.
These rates are available for a limited time so please make your reservation by 10/14/13. Fees for the course are transferable but not refundable after 11/07/13. Applications who do not transfer to attend a different course will be subject to a $50.00 administration fee.

- 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.

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REGULATORY UPDATE

NOVEMBER 14-15, 2013
DOUBLETREE NEWARK AIRPORT HOTEL, NEWARK, NJ
INSTRUCTED BY DAVID STEINBERG AND MICHELLE DESROSNIERS

COURSE OUTLINE

This course will concentrate on the major changes to the regulations of personal care products around the world. It will be updated to reflect the latest changes.

1. US
   a. Sunscreen Regulations
      i. Testing
      ii. Labeling including how to do a Drug Fact Box
      iii. Updates on TEA’s, alternate forms, comments submitted in 2011
   b. Other OTC Regulations
      i. Recent changes
      ii. Current Unified Agenda
      iii. Compliance with PL 109-462
   c. Cosmetic Issues
      i. Import alerts-micro, anti-aging claims, colors
      ii. Color issues update
   d. California
      i. Proposition 65 additions including Safe Harbors
      ii. Safe Cosmetic Act Registrations
   e. Class action lawsuits for advertising claims
   f. FDA Electronic Filings for OTC Drugs

2. European Union
   a. Review of the 8th Amendment
      i. Major changes-Product Information File, Responsible Person, other changes
      ii. ATP’s if any
   iii. Recent SCCS Opinions

3. Canada
   a. Environmental issues
   b. NHP’s; DIN’s updates on switches to cosmetics
   c. Advertising claims in Canada for cosmetics
   d. Electronic Notification

4. Other Countries
   a. Brief updates to changes in other major markets

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About The Instructors

DAVID C. STEINBERG founded Steinberg & Associates, Inc. in 1995 as a consulting company that specializes in cosmetic regulations, labeling, preservation and sunscreens. He has over 35 year’s experience in the cosmetic industry. He founded the Master’s Degree program in Cosmetic Sciences at Fairleigh Dickinson University and taught there from 1982 to 2000. He is a member of the American Chemical Society, Society of Cosmetic Scientists, Institute of Food Technologists, Regulatory Affairs Professional Society and is a Fellow member of the Society of Cosmetic Chemists. In 1991 he was the President of the US Society of Cosmetic Chemists. From 1992-5 he served on the Presidium of the International Federation of Societies of Cosmetic Chemists. In 2006, founded the Cosmetic Preservative Council and is the Executive Director. He has written 4 books including Preservatives for Cosmetics (The second edition is now available, The Guide to European Cosmetic Regulations, and has authored many papers and chapters in books.

MICHELLE DESROSNIERS graduated with a BS from Central Connecticut State University, with a concentration in Environmental Science and Public Relations. Upon graduation joined IBM. During her tenure, Michelle focused on 5s, Training Within Industry and GMP. In 2009 Michelle joined Autumn Harp, Inc. a turn key cosmetic manufacturer in Vermont. For the last four years she has worked to develop a rigorous regulatory review program. This guidance helps to advise the company’s client in FDA compliance and drug/OTC product registration, SPF New Rule adherence, Health Canada Regulations and EU Regulations. Michelle also prepared the company for NSF/305 Standard certifications and audits, and reviewed USDA Organic and NPA certification compliance. Because of ever increasing demands for regulatory advice, the addition of Michelle will allow Steinberg & Associates, Inc. to better service our clients. This will now include being able to offer US OTC electronic drug registrations.

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SCC
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.**

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TOTAL ENCLOSED

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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# _______