



## November 2006 BIOTECH SEMINAR

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**~SIG BIOTECH~**

**Topic:**

**“SKIN BIOLOGY AND COSMETIC PRODUCTS – THE BEAUTY FORMULATIONS AND BEYOND”**

**DATE:** Friday, Nov 3rd, 2006

**TIME:** 6:30 PM

**LOCATION:** Squire Sanders Law Firm  
600 Hansen Way, Palo Alto, CA 94304

**REGISTRATION:** FREE for NATEA members, \$5 for non-members,  
Pizza & soft drink will be served.

**RSVP:** [ysyang@stanford.edu](mailto:ysyang@stanford.edu) or [slcheng1@yahoo.com](mailto:slcheng1@yahoo.com)

**SPEAKER'S BIO:**

- Dr Eric Sheu, PhD – Physics (MIT), Current responsibility: Formulation assessment (Lawrence Livermore National Laboratory), and Formulate skin products (Hercules, CA)
- Over 20 years of formulation and formulation management experience
  - Formulate detergent, cosmetics (night creams, sun screen), consumer products, motor oil, fuel, coolants, lubricant (Exxon, NJ; Texaco, NY)
  - Formulate tablets, pesticides, injectable (Zeneca, Richmond, CA)
  - Formulate stent coating drugs (Guidant, Santa Clara)
  - Formulate proteins, oligonucleotides, peptides, nanoparticles/microparticel, emulsions, microemulsion for gene therapy (Genteric, Alameda)
  - Formulate gel, putty, injectable for controlled and sustained release drug dosage forms (Durect, Cupertino)

**ABSTRACT:**

Skin care products are nearly the needed cosmetics, occupying appreciable cabinet space in many houses. Yet, the chemical ingredients used for making such products are only lightly regulated by the FDA, resulting in wide range of “grades” available on the market place. Achievement of the claimed “efficacy” and potential adverse effects of these ingredients on skin depend on how the products are formulated and the interplay between the chemical properties of the ingredients and the skin biological processes. In this presentation, I will first describe FDA’s role (very briefly) on regulating cosmetic products and follow with an introduction of skin biology to justify the benefit of cosmetics. The focus however will be on (1) introduction of common formulation strategies cosmetic companies employ to inhibit, alter, or mitigate skin biology processes, (2) what common cosmetic ingredients and grades have been used to achieve the claimed results, and (3) what ingredients to look for when purchasing skin care products? If possible, few commercial products will be used as examples for demonstration (will not reveal the brands to avoid speculation of commercial promotion).