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Advances in Cosmetic Formulation Design

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Conference Program

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Program

Advances in Cosmetic Formulation Design

A new ECI conference

July 22-25, 2018

Durham, North Carolina, USA

Conference Chairs

Samiul Amin

Manhattan College

Ponisseril Somasundaran

Columbia University





Engineering Conferences International

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Conference Sponsors

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Sunday, July 22, 2018

2:30 pm – 3:30 pm	Conference check-in (Presidents Gallery)
3:45 pm - 4:00 pm	Welcome Remarks-Conference Chairs Samiul Amin Ponisseril Somasundaran
4:00 pm - 6:30 pm	Session 1: Novel Nanoemulsions, Gels & Colloids in Cosmetic Formulations Session Chair: Ponisseril Somasundaran, Columbia University
4:00 pm - 4:30 pm	Daeyeon Lee, University of Pennsylvania, USA Janus particles as solid surfactants
4:30 pm - 5:00 pm	Sven H. Behrens, Georgia Institute of Technology, USA Formulation opportunities due to gelling and jamming in colloidal multiphase systems.
5:00 pm - 5:30 pm	Matthew Helgeson, University of California Santa Barbara, USA Multi-nanoemulsions: Nanodroplets in nanodroplets for formulation design
5:30 pm - 6:00 pm	Paul Clegg, University of Edinburgh, United Kingdom Bijels formed by mixing: Escaping from phase separating liquids
6:00 pm - 6:30 pm	Srini Raghavan, University of Maryland, USA New modes of solute release from capsules and capsule-loaded gels
6:30 pm - 7:00 pm	Reception (Presidents Terrace)
7:00 pm - 8:30 pm	Dinner (Presidents II)

Room locations and notes

- General Sessions will be in Presidents I and Poster Sessions will be Presidents Gallery.
- Meals will be in Presidents II.
- The ECI office is the Trinity Room.
- Audio, still photo and video recording by any device (e.g., cameras, cell phones, laptops, PDAs, watches)
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Monday, July 23, 2018

7:30 am - 9:00 am	Breakfast buffet
9:00 am - 10:30 am	Session 2: Polyelectrolytes, Complex Coacervation, Polymer-Surfactant Interactions Session Chair: Jordan Petkov, Lonza
9:00 am - 9:30 am	Robert Lochhead, University of Southern Mississippi, USA Elucidating the mechanism of polymer/surfactant coacervate delivery/conditioning systems
9:30 am - 10:00 am	Michael Rubinstein, Duke University, USA From complexation of oppositely charged polyelectrolytes to supramolecular bottlebrushes and gels.
10:00 am - 10:30 am	Krishnan Chari, Lubrizol Corporation, USA Surfactant-Activated Micro-gels in Micellar Systems
10:30 am – 11:00 am	Coffee Break (Sponsored by Lonza)
11:00 am – 12:30 pm	Session 3: Novel Materials & Microstructures, Smart Materials- I Session Chair: Prabhjyot Singh, Clariant
11:00 am – 11:30 am	Kathleen Stebe, University of Pennsylvania, USA Materials via interfacial assembly: strips bijels, nice, & awesome structures
11:30 am – 12:00 pm	Niels Holten-Andersen, Massachusetts Institute of Technology, USA Bio-inspired metal-coordination: Using more of nature's tricks to assemble hydrogel materials with multi-functional properties
12:00 pm – 12:30 pm	Emily English, Gemstone Biotherapeutics, USA Skin regeneration with a synthetic biomaterial that replaces the extracellular matrix
1:00 pm – 2:30 pm	Lunch
2:30 pm – 4:30 pm	Networking / free time / ad hoc sessions
5:00 pm - 6:30 pm	Session 4: Novel Materials & Microstructures, Smart Materials-II Session Chair: Kathleen Stebe, University of Pennsylvania
5:00 pm - 5:30 pm	Anne Dussaud, Momentive Performance Materials, USA New core-shell microgel offers creative texture and water-fresh sensory qualities to skin care products.
5:30 pm - 6:00 pm	Martin Vethamuthu, Ashland, USA Emulsions, foams and fragrance design in skin cleansing formulations: Review and innovations
6:00 pm - 6:30 pm	Leila Deravi, Northeastern University, USA Light scattering and color adaptation that originate from a natural nanomaterial
7:00 pm - 8:30 pm	Dinner
8:30 pm - 9:30 pm	Social hour / Poster Session

Tuesday, July 24, 2018

7:30 am - 8:30 am	Breakfast buffet
8:30 am - 10:30 am	Session 5: Biosurfactants, Biopolymers & Novel Sustainable Materials Session Chairs: Sven Behrens, Georgia Institute of Technology
8:30 am - 9:00 am	Jordan Petkov, Lonza, United Kingdom Polyglyceryl Ester based surfactants – an attractive green alternative to the current non- ionic surfactants.
9:00 am - 9:30 am	Daniel Derr, NatSurFact, USA NatSurFact: Progress in commercializing rhamnolipids
9:30 am - 10:00 am	Stefan Ulvenlund, Enza Biotech, AB, Sweden Novel high-performance ingredients based on functionalized polysaccharides – The role of enzymatic catalysis.
10:00 am - 10:30 am	Mridul Sarker, Nanyang Technological University, Singapore Protein nanocages as novel biosurfactant in the formulation of Pickering emulsion and gel
10:30 am - 11:00 am	Coffee break
11:00 am - 1:00 pm	Session 5: Biosurfactants, Biopolymers & Novel Sustainable Materials-II Session Chairs: Daeyeon Lee, University of Pennsylvania
11:00 am - 11:30 am	Prabhjyot Singh, Clariant, USA Sulfate free solutions for personal care applications
11:30 am - 12:00 pm	Krassimir Velikov, Unilever, Netherlands Bio-based nanoparticles for broadband UV protection with photo-stabilized UV-filters
12:00 pm - 12:30 pm	Lulu Henson, International Flavors & Fragrances Inc, USA Fragrance solubilizing properties of bio-based alkyl polyglucosides and their impact on the aesthetic and functional characteristics of a model cleansing composition
12:30 pm - 1:00 pm	Ponisseril Somasundaran, Columbia University, USA Bio-Based Surfactants for Benign Cosmetic Products: Principles and Applications
1:00 pm - 2:30 pm	Lunch
2:30 pm - 4:30 pm	Networking / free time / ad hoc sessions
5:00 pm - 7:00 pm	Session 6: Sensory & Advanced Characterization Session Chair: Samiul Amin, Manhattan College
5:00 pm - 5:30 pm	Bharat Bhushan, Ohio State University, USA Structural, nanomechanical, and nanotribological characterization of human hair and conditioner using atomic force microscopy and nanoindentation
5:30 pm - 6:00 pm	Andrei Potanin, Colgate Palmolive, USA Rheological prediction of sensory attributes for lotions – learning from toothpastes.
6:00 pm - 6:30 pm	Hy Bui, L'Oreal, USA Physical characterization of long wear foundations

Tuesday, July 24, 2018 (continued)

6:30 pm - 7:00 pm Saad Khan, North Carolina State University, USA

Effect of interactions between a hydrophobically modified polymer and phospholipids in the rheological and frictional properties of complex gels

7:00 pm - 8:30 pm **Conference Banquet**

8:30 pm - 9:30 pm Social hour / Poster Session

Wednesday, July 25, 2018

7:00 am - 8:00 am	Breakfast buffet
8:00 am - 12:30 pm	Session 7: Sensory & Advanced Characterization & General Session Chair: Martin Vethamuthu, Ashland
8:00 am - 8:30 am	Anna Howe, Evonik, USA Sensory kaleidoscope – Taking skin feel to the next level taking sensory from nature
8:30 am - 9:00 am	Joerg Laeuger, Anton Paar, Germany Advanced rheological and tribological methods for cosmetic products
9:00 am - 9:30 am	Samiul Amin, Manhattan College, USA Formulation design of complex fluids based products through diffusing wave spectroscopy (DWS)
9:30 am - 10:00 am	Prithwiraj Maitra, Johnson and Johnson, USA The Material Science of Cosmetics
10:00 am – 10:30 am	Coffee break
10:30 am - 11:00 am	Adriana Fregonesi, Natura, Brazil Interactions of cationic formulations on human hair: Effects on cuticle texture and cortex porosity
11:00 am - 11:30 am	Ernesta Malinauskyte, TRI, Princeton, USA Effect of city pollution and its cleansing treatments on hair
11:30 am - 12:00 pm	Gaurav Arya, Duke University, USA Anisotropic assembly of nanoparticles within polymers
12:00 pm - 12:30 pm	Sangchul Roh, North Carolina State University, USA A new class of dendrimeric "gecko legs" polymer particles with extraordinary structure- building, gelation and adhesive capabilities
12:30 pm - 1:30 pm	Lunch and Departures

Posters

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Poster Presentations

1. Dynamics of double-semidilute liquid coacervates formed by oppositely charged polyelectrolytes

Christian Aponte-Rivera, Duke University, USA

2. Large scale fabrication of environmentally benign nanoparticles from lignin for use as delivery vehicles of active ingredients

Cathryn G. Conner, North Carolina State University, USA

3. Compound design process - to a better start

Aurora Costache, ChemAxon, USA

4. Understanding tribological behavior of complex gel systems for personal care applications using surrogate skin and their bulk rheology

Barbara V. Farias, North Carolina State University, USA

5. **Derivatization of the low-priced commercial retinol for the anti-aging cosmetics**Bonwook Koo, Korea Institute of Industrial Technology, South Korea

6. Multi-method in-vitro and in-vivo evaluation of coacervation and deposition behavior in cleansing formulations

Matthew A. Lohr, Johnson and Johnson Consumer Inc., USA

7. Characterization of ozone effect on human hair

Ernesta Malinauskyte, TRI Princeton, USA

- 8. Quantification and visulization of taurine delivery and penetration into skin Junhong Mao, Colgate-Palmolive, USA
- 9. Transparent and soft elastomeric composites and oil/water biphasic systems with stimuli-triggered release of "invisible" liquid

Sangchul Roh, North Carolina State University, USA

10. Effect of rhamnolipids biosurfactant on traditional surfactants: A macro- and microrheological study

Liangchen Xu, Manhattan College, USA

11. Effect of rhamnolipids on surface tension and interfacial behaviors on traditional surfactants

Yao Zhou, Manhattan College, USA

12. Protein nanocages for cutaneous delivery

Mridul Sarker, Nanyang Technological University, Singapore

13. New customized solutions for hair conditioning applications

Prabhjyot Singh, Clariant, USA