

# Chemical Engineering

Session **H**

Room: 113 Spalding

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10:40 - 11:00 AM	<b>Bamini Balaji</b>	Analysis of Thermal and Structural Mechanisms of Silica Microcavity Formation	Andrea M. Armani <i>Assistant Professor of Chemical Engineering and Materials Science, University of Southern California</i>
11:00 - 11:20 AM	<b>Diana R. Dou</b> <i>Carol Carmichael SURF Fellow</i>	Generation of Induced Pluripotent Stem Cells From Adult Cells Using Non-Viral Transfection of mRNA	Mark E. Davis <i>Warren and Katharine Schlinger Professor of Chemical Engineering</i>
11:20 - 11:40 AM	<b>Lily Zhou</b>	Solid State NMR Studies on Reaction Intermediates of Metal Borohydrides Hydrogen Storage Systems	Sonjong Hwang <i>Member of the Professional Staff in Chemical Engineering; Lecturer in Chemistry</i> Jason Zan <i>Member of the Technical Staff, JPL</i>
11:40 AM - 1:00 PM	<b>LUNCH</b>		
1:00 - 1:20 PM	<b>Ning-Jium Jan</b>	Machining and Molding Polycyclopentadiene (pDCPD): On the Micro-technology Potential of a Young Plastic	Julia A. Kornfield <i>Professor of Chemical Engineering</i>
1:20 - 1:40 PM	<b>Nathan D. Morison</b>	Linear and Cyclic Polycyclooctene: Differences in Crystallization	Julia A. Kornfield <i>Professor of Chemical Engineering</i> Iman Hajimorad <i>Graduate Student in Chemical Engineering</i>
1:40 - 2:00 PM	<b>Albert Nava</b> California State University, Los Angeles <i>NSF Center for the Science and Engineering of Materials MURF Fellow</i>	Synthesis and Assembly of Mucoadhesive R <sub>f</sub> -PEG/R <sub>f</sub> -PRG-PAA Hydrogel Drug Delivery System	Julia A. Kornfield <i>Professor of Chemical Engineering</i> Ming-Hsin Wei <i>Graduate Student in Chemical Engineering</i> Yong Ba <i>Assistant Professor of Chemistry, California State University, Los Angeles</i>

2:00 - 2:20 PM	<b>Lita F. Yang</b>	Self-Assembled Liquid Crystalline Gels	Julia A. Kornfield <i>Professor of Chemical Engineering</i> Zuleikha Kurji <i>Graduate Student in Chemistry</i>
2:20 - 2:30 PM	<b>BREAK</b>		
2:30 - 2:50 PM	<b>James F. Dama</b> <i>Richter Scholar</i>	Fabrication of a Proof-of-Concept Electrophoresis Device	Richard C. Flagan <i>Irma and Ross McCollum-William H. Corcoran Professor of Chemical Engineering and Professor of Environmental Science and Engineering</i> Andy Downard <i>Graduate Student in Chemical Engineering</i>
2:50 - 3:10 PM	<b>Steve S. He</b>	Assessment of Nonspecific Protein Adsorption Resistance of Zwitterionic Polymers via Optical Microcavities	Richard C. Flagan <i>Irma and Ross McCollum-William H. Corcoran Professor of Chemical Engineering and Professor of Environmental Science and Engineering</i> Jason M. Gamba <i>Graduate Student in Chemical Engineering</i>
3:10 - 3:30 PM	<b>Qinren Zhen</b> <i>Arthur A. Noyes SURF Fellow</i>	Studying the Thermodynamics of Respirable Fragment Release From Pollen	Richard C. Flagan <i>Irma and Ross McCollum-William H. Corcoran Professor of Chemical Engineering and Professor of Environmental Science and Engineering</i>
3:30 - 3:50 PM	<b>Justine X. Chia</b> <i>Professor Fredrick H. Shair SURF Fellow</i>	Forced Rayleigh Scattering: A New Approach to Studying the Molecular Motion of Leucine-Zipper Hydrogels	Julia A. Kornfield <i>Professor of Chemical Engineering</i> Bradley D. Olsen <i>Beckman Institute Postdoctoral Scholar in Chemical Engineering</i>