

**2020 Fall ACS National Meeting – COLL Broadcast Sessions Program
(ACS will post the final approved program with presentation times)**

**Langmuir Lectures
Monday, August 17**

3441775	Long journey to “biopatterning”: surface assays and analysis using closed- and open-space microfluidics	Emmanuel Delamarche	emd@zuich.ibm.com	AM	Order 1	(min) 45
3441372	Surface science of shape-selective metal nanocrystal synthesis from first-principles	Kristen Fichthorn	fichthorn@psu.edu	AM	2	45
Q&A Session				AM	3	20

**Nanomaterials
Monday, August 17**

3429179	In-situ PDF/DRIFTS Study of Nanoparticle Formation in Zeolites	Tina Nenoff	tmnenof@sandia.gov	PM	1	25
3433346	Trapped-hole diffusion in semiconductor nanocrystals	Gordana Dukovic	gordana.dukovic@colorado.edu	PM	2	25
3431708	Dendrimer nanoreactors as emerging nanotherapeutics for treating reactive organophosphate exposure	Seok-Ki Choi	skchoi@med.umich.edu	PM	3	25
3433493	Mechanisms of cellulose nanocrystals in stabilizing iron nanoparticles	Charles-Francois de Lannoy	delannoy@mcmaster.ca	PM	4	25
Q&A Session				PM	5	20

Applications of Colloids in Biology/Medicine**Tuesday, August 18**

3399352	Treating cystic fibrosis lung infections with bacteria-inspired nanoscale drug delivery systems	Joel Finbloom	joel.finbloom@gmail.com	AM	1	25
3405756	Self-assembled protein nanosheets for the expansion of stem cells at liquid-liquid interfaces	Julien Gautrot	j.gautrot@qmul.ac.uk	AM	2	25
3402878	Silver-chalcogenide nanoparticles as contrast agents for breast cancer screening	David Cormode	davidcormode@gmail.com	AM	3	25
3422174	Rapid discovery of multivalent T cell-redirecting immunotherapies for leukemia	Erik Dreaden	e.dreaden@gatech.edu	AM	4	25
Q&A Session				AM	5	20
The wide world of adhesion. Symposium in honor of Kash Mittal at 75						
Tuesday, August 18						
3402014	Metallic Plate Buckling as a Low Adhesion Mechanism for Durable and Scalable Icephobic Surface Design	Kevin Golovin	kevin.golovin@ubc.ca	PM	1	25
3425750	“Acoustic characterization of a degassed fluid with a novel cavitation measurement instrument: Process enhancements to ultrasonic and megasonic cleaning	Petrie Yam	py@ondacorp.com	PM	2	25
3392547	“Characterization of plasma enhanced chemical vapor deposition diamond-like carbon coatings on fused silica with and without argon or oxygen plasma treatment”	Roger Narayan	roger_narayan@outlook.com	PM	3	25
3413624	Epoxy matrix resins with offset stoichiometry for predictable joints in composite assemblies	Frank Palmieri	frank.l.palmieri@nasa.gov	PM	4	25
Q&A Session				PM	5	20

Frontiers and Challenges in Nanoparticle-Mediated Chemical Transformations
Wednesday, August 19

3405562	Icosahedral nanocrystals for both fundamental studies and catalytic applications	Younan Xia	younan.xia@bme.gatech.edu	AM	1	25
3424560	Controlling catalysis at oil-water interfaces with functionalized nanoparticles	Will Medlin	medlin@colorado.edu	AM	2	25
3402546	Porous nano-size metal oxides for catalytic oxidations and reductions	Steven Suib	steven.suib@uconn.edu	AM	3	25
3433308	Electrochemical oxygen-atom transfer reactions at nanoscale metal oxides	Karthish Manthiram	karthish@mit.edu	AM	4	25
Q&A Session				AM	5	20

Surface Chemistry
Wednesday, August 19

3433937	Reaction mechanism of chloride-induced degradation of metal oxide: A density functional theory study	Liney Arnadottir	liney.arnadottir@oregonstate.edu	PM	1	25
3432217	Understanding mechanocatalytic reaction pathways; surface chemistry at the solid-solid interface	Wilfred Tysoe	wtt@uwm.edu	PM	2	25
3433342	Advanced Real Space Analysis of STM Images	Lloyd Bumm	bumm@ou.edu	PM	3	25
3430124	Revealing surface chemical reaction by detecting hot electron flux generated in solid-gas and solid-liquid interfaces	Si Woo Lee	siwoolee@kaist.ac.kr	PM	4	25
Q&A Session				PM	5	20

Bottom-up Development of Formulations for Delivery of Nucleic Acids and Proteins**Thursday, August 20**

3432995	Soluble, multi-valent nano-self peptides increase phagocytosis of antibody-opsonized targets	Dennis Discher	discher@seas.upenn.edu	AM	1	25
3434215	Using bioorthogonal click chemistry to refill drug depots deep within the brain	Yevgeny Brudno	ybrudno@ncsu.edu	AM	2	25
3433271	Human RNAi therapeutics delivered	Muthiah Manoharan	Mmanoharan@alnylam.com	AM	3	25
3425080	Non-cationic RNA-polymer complexes for siRNA and long dsRNA delivery	Ziwen Jiang	ziwen.jiang@ucsf.edu	AM	4	25
Q&A Session				AM	5	20
Hydrodynamics and Thermodynamics at Interface						
Thursday, August 20						
3431265	"Phase mechanics" of arrested colloidal gels: A new paradigm for non-equilibrium phase transitions in soft matter	Roseanna Zia	rzia@stanford.edu	PM	1	25
3434929	Hydrodynamics, kinetics, and thermodynamics of a self-assembly system of surfactant/polar oils at immiscible liquid-liquid interfaces	Zahra Niroobakhsh	niroobakhshz@umkc.edu	PM	2	25
3425844	Self-assembly of 3D printed colloidal particles at a solid-liquid interface	Wendy Gu	xwgu@stanford.edu	PM	3	25
3431312	Self-assembly and crystallization at the interface by liquid phase TEM	Jungwon Park	jungwonpark@snu.ac.kr	PM	4	25
Q&A Session				PM	4	20

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