

**Materials Research Outreach Symposium
Wednesday Feb. 3 to Thursday Feb. 4, 2021**

*Virtually hosted by UC Santa Barbara on Zoom
All times listed are Pacific Standard Time (PST)*

Day 1: Wednesday, February 3, 2021

<https://ucsb.zoom.us/j/82649005609>

Session Chair: Craig Hawker

8:45 am	Opening remarks by Dean Rod Alferness	
9:00 am	Rachel O'Reilly (Birmingham)	Getting into shape – precision anisotropic polymer nanoparticles
9:30 am	Yang Yang (UCSB)	Engineered enzymes for polymer science
10:00 am	<i>Break 1 (student posters)</i> — Zach Porter, Mark Turiansky	

Session Chair: Chris Bates

10:10 am	Hannah Murnen (Compact Membrane)	Using new materials to change the world of chemical separations
10:40 am	Megan Valentine (UCSB)	Using nature-inspired processing to create exceptional soft materials
11:10 am	<i>Break 2 (student posters)</i> — Emily Foley, Chris Barney	
11:20 am	Brian Long (Tennessee)	Alkoxysilane-substituted polynorbornenes: high T_g membranes with unusual gas transport behavior
11:50 am	<i>Day 1 closing remarks</i>	

Poster Session (1:00 – 2:00 pm)

Zach Porter	Synthesis of $\text{Sr}_2\text{Ir}_x\text{Ru}_{1-x}\text{O}_4$ via high-pressure floating zone technique https://ucsb.zoom.us/j/87197259610?pwd=ZCs3RXQxOGxNNofBd2thZGNLQmptQTog
Mark Turiansky	Exploring properties of boron nitride for quantum information science https://ucsb.zoom.us/j/87601723070?pwd=NkgEcGJCcHJONVU2WTF5WXQyamFNdzog
Emily Foley	Elucidating reaction processes in conversion-type Na_3FeF_6 for Na-ion batteries https://ucsb.zoom.us/j/83865210845?pwd=cUxNVVVIWUUVWjNabTJUbHNYTkdkZzog
Chris Barney	Size scale of colloidal self-assembly influences the mechanics of covalently crosslinked composite hydrogels https://ucsb.zoom.us/j/3560727220

Materials Research Outreach Symposium
Wednesday Feb. 3 to Thursday Feb. 4, 2021

Day 2: Thursday, February 4, 2021

<https://ucsb.zoom.us/j/81146656451>

Session Chair: Ram Seshadri

9:00 am	Serena Corr (Sheffield)	Exploring the hidden chemical depths of the Mary Rose hull
9:30 am	Daniil Kitchaev (UCSB)	Controlling magnetic structure with chemistry and mechanics
10:00 am	<i>Break 1 (student posters)</i> — Allison Chau, Linus Kautzsch	

Session Chair: Angela Pitenis

10:10 am	Jose Rodriguez (UCLA)	New approaches in electron diffraction for visualizing macromolecular assemblies with atomic detail
10:40 am	Sho Takatori (UCSB)	Buckling and glassy dynamics in living thin films
11:10 am	<i>Break 2 (student posters)</i> — Rhys Kennard, Rebecca Vincent	
11:20 am	Abby Knight (UNC)	Mimicking proteins with synthetic macromolecules
11:50 am	<i>Day 2 closing remarks</i>	

Poster Session (1:00 – 2:00 pm)

Allison Chau	Structure–property relationships of gradient hydrogels https://ucsb.zoom.us/j/89375770129
Linus Kautzsch	Quantum magnetism in nitride compounds https://ucsb.zoom.us/j/87282875082
Rhys Kennard	Cation size determines emissive species in Ruddlesden–Popper perovskites https://ucsb.zoom.us/j/87567674260?pwd=SVNleFhhQmw5cmVENGTtrVnJ6emhTZz09
Rebecca Vincent	Lithium copper phosphates as high energy density Li-ion cathode materials https://ucsb.zoom.us/j/87484677934