



## Join Us for: **Frontiers of Materials Award Symposium: Leveraging Materials in Topology Optimization**

**Date:** Tuesday, February 25, 2020

**Time:** 8:30 a.m. to 5:00 p.m.

**Location:** San Diego Convention Center, Room 4

**Organized by:** Natasha Vermaak, Lehigh University

Topology optimization is pushing the frontiers of materials design by decoupling and independently optimizing material properties and functionality. Join us for a special, one-day session exploring this emerging topic area.

### FEATURED PRESENTATIONS



8:30 a.m. to 8:50 a.m.  
**"Leveraging Materials in Topology Optimization"**  
Natasha Vermaak, Lehigh University



11:10 a.m. to 11:50 a.m.  
**"Materials, Design and Emerging Objects"**  
Virginia San Fratello, San Jose State University



8:50 a.m. to 9:30 a.m.  
**"Multiscale/Level Design of Materials and Structures"**  
H. Alicia Kim, University of California San Diego



2:00 p.m. to 2:40 p.m.  
**"Topology Optimization for Architected Materials"**  
James Guest, Johns Hopkins University



9:30 a.m. to 10:10 a.m.  
**"Topology Optimization for Additive Manufacturing"**  
Albert To, University of Pittsburgh



2:40 p.m. to 3:20 p.m.  
**"Sustainable Fashion Design, 3D and 4D Printing, and The New Age Lab"**  
Julia Daviy, The New Age Lab



10:30 a.m. to 11:10 a.m.  
**"Nonlinear Composite Materials Design through Multi-material Topology Optimization Frameworks"**  
X. Shelly Zhang, University of Illinois at Urbana Champaign

### **SPEAKER PANEL DISCUSSION AND POSTER PREVIEWS**

3:20 p.m. to 3:40 p.m.

**Panel Discussion: "Leveraging Materials in Topology Optimization"**

4:00 p.m. to 4:20

**Speaker Poster Previews**

4:20 to 5:00

**Speaker Poster Session**