



# 14<sup>th</sup> Annual Northeast Ohio Undergraduate Research Symposium (NOURS)

Case Western Reserve University (CWRU)

## **Schedule of Events**

Hovorka Auditorium

8:00 – 8:30 am

*Registration/Breakfast*

DeGrace Hall 312

8:30 am – 8:35 am

*Welcome*  
Prof. LaShanda Korley – CWRU

8:35 am – 9:05 am

*Featured Research Talk*  
Symone Alexander, Ph.D. Candidate/NSF Fellow  
Case Western Reserve University  
*Hygromorphic Bilayer Composites*

9:05 am – 9:25 am

Matthew Foronda, Kent State University  
*Repurposing the Anticancer Drug Cisplatin for a  
Post-Antibiotic Era*

9:25 am – 9:45 am

Avi Desai, Petru Fodor & Miron Kaufman, Cleveland State  
University  
*Fluid Flow Modeling in Single Screw Extruder Type Systems*

9:45 am – 10:05 am

Nathaniel Olson, NASA  
*Yttria-Stabilized Zirconia Aerogels for High Temperature  
Applications*

10:05 am – 10:25 am

James Covello, Case Western Reserve University  
*Synthesis of Supramolecular Hydrogels through Thiol-ene Click  
Addition*

10:25 am – 10:40 am

*Break*

10:40 am – 11:00 am

Mara Kuenen, University of Akron  
*Impact of Concentration and Temperature on the Crosslinking of*

*Butyl Rubber Using Triethylenediamine*

11:00 am – 11:20 am	Caitlin Hawkins, Kent State University <i>Stable Binding of Protein RsmG to 16S Helix 18 Requires RNA-proteins and RNA-RNA Contacts Formed by the 16S 5'-Domain RNA</i>
11:20 am – 11:40 am	Jessica Cashman, NASA <i>Flexible Polyimide Aerogels for use as Substrates for Conformal, Lightweight Antennas</i>
11:40 am – 12:00 pm	Sara Hurley, Case Western Reserve University <i>Using Affinity to Overcome the Limitations of PMMA Bone Cement</i>
<i>Hovorka Auditorium</i>	
12:00 pm – 1:00 pm	Lunch/Poster set-up
1:00 pm – 2:30 pm	Poster Session
<i>DeGrace Hall Rm. 312</i>	
2:45 pm - 3:15 pm	<i>Featured Research Talk</i> Akhil Kandhari, Ph.D. Candidate Case Western Reserve University <i>Bio-inspired Soft Robotics</i>
3:15 pm – 3:35 pm	Lucas Mihibacher, University of Akron <i>Impact of pH, Ion Choice and Concentration upon the Properties of a Self-Healing Mineral Hydrogel</i>
3:35 pm – 3:55 pm	Tony D. Dobrilla, Cleveland State University <i>Optimizing the Direct Visualization of HPC Microgels via Scanning Electron Microscopy</i>
4:00 pm – 4:20 pm	Group Photo
4:20 pm	Wrap-up/Closing Remarks