# 14th Annual Northeast Ohio Undergraduate Research Symposium (NOURS)

Case Western Reserve University (CWRU)

## Schedule of Events

<table>
<thead>
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<th>Time</th>
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<tr>
<td>8:00 – 8:30 am</td>
<td><strong>Registration/Breakfast</strong></td>
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| 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
Stable Binding of Protein RsmG to 16S Helix 18 Requires RNA-proteins and RNA-RNA Contacts Formed by the 16S 5’-Domain RNA

11:20 am – 11:40 am  Jessica Cashman, NASA
Flexible Polyimide Aerogels for use as Substrates for Conformal, Lightweight Antennas

11:40 am – 12:00 pm  Sara Hurley, Case Western Reserve University
Using Affinity to Overcome the Limitations of PMMA Bone Cement

Hovorka Auditorium

12:00 pm – 1:00 pm  Lunch/Poster set-up

1:00 pm – 2:30 pm  Poster Session

DeGrace Hall Rm. 312

2:45 pm - 3:15 pm  Featured Research Talk
Akhil Kandhari, Ph.D. Candidate
Case Western Reserve University
Bio-inspired Soft Robotics

3:15 pm – 3:35 pm  Lucas Mihibacher, University of Akron
Impact of pH, Ion Choice and Concentration upon the Properties of a Self-Healing Mineral Hydrogel

3:35 pm – 3:55 pm  Tony D. Dobrilla, Cleveland State University
Optimizing the Direct Visualization of HPC Microgels via Scanning Electron Microscopy

4:00 pm – 4:20 pm  Group Photo

4:20 pm  Wrap-up/Closing Remarks