

## ASC 2020 - VIRTUAL UNDERGRADUATE STUDENT POSTER COMPETITION

### WINNERS

#### Group 01 Catalysis & Reaction Engineering

- |   |                  |                          |  |
|---|------------------|--------------------------|--|
| 1 | Eric Musa        | University of Michigan   | <i>Optimized Machine Learning Potential Reconstruction for Enhanced Catalysis Research</i>         |
| 2 | Jeffrey Hoffmann | University of Pittsburgh | <i>Lifespan Characterization of Oxidized NiFe Catalysts for Alkaline Oxygen Evolution Reaction</i> |

#### Group 02 Computing and Process Control

- |         |                |                                   |  |
|---------|----------------|-----------------------------------|--|
| 1 (tie) | Stephen Quiton | University of Southern California | <i>A Matrix Completion Algorithm to Recover Modes Orthogonal to the Minimum Energy Reaction Path</i> |
| 1 (tie) | Maya Desai     | Rowan University                  | <i>Development of Wastewater Treatment Networks Using the P-Graph Approach</i>                       |

#### Group 03 Education & General Papers

- |   |               |  |  |
|---|---------------|--|--|
| 1 | Leonor Teles  | University of Rochester                  | <i>Stroke Prediction Using Carotid Artery CFD Simulations</i>                |
| 2 | Vedika Shenoy | University of California - Santa Barbara | <i>Designing and Characterizing a 3D Printed Staggered Herringbone Mixer</i> |

#### Group 04 Environmental

- |   |                 |                                 |   |
|---|-----------------|---------------------------------|---|
| 1 | Kevin Pataroque | Case Western Reserve University | <i>Elucidation of Radical Species in an Electrolytic Non-Equilibrium Plasma-Water System</i>                  |
| 2 | Austin Lehr     | Rowan University                | <i>Multi Objective Approach to Designing Solvent Recovery Pathways Via Economic and Environmental Metrics</i> |

#### Group 05 Food, Pharmaceutical & Biotechnology I

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|---|----------------------|---|--|
| 1 | Ann Metzloff         | Cornell University  | <i>Development of a New Generation of Robust pH-Responsive Fluorescent Proteins for Use in Intracellular Imaging Studies</i> |
| 2 | Ishmamul Hoque Sadab | Bangladesh University of Engineering and Technology, Bangladesh | <i>A Molecular Docking Approach to Identify Effective Stilbene Derivatives Against the Main Protease of Sars Cov-2</i>       |