



Western
Sarnia-Lambton
Research Park

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NEWS RELEASE

For Immediate Release

Awards Presented at 15th Annual Capstone Design and Competition Tuesday, April 20, 2021

Sarnia, ON – Award winning projects of the 15th annual *Capstone Engineering Design and Competition* have been announced. More than 60 students from the Department of Chemical and Biochemical Engineering at Western University competed virtually in *Capstone*, co-hosted by the Western Sarnia-Lambton Research Park and Western Engineering on Monday, March 29 and Tuesday, March 30.

Panels of judges, comprised of local community and industry leaders, determined first and second place awards in the categories of *Green & Environmental Processes*, *Specialty Chemicals*, and *Hydrogen and Fuels*.

Green and Environmental Processes

First Place: Biogas and Renewable Natural Gas Production from Municipal Solid Waste

Students: Shreel Pillai, Kneev Sharma, Priya Shrestha, Jonathan Taylor, Sarah From

Second Place: Conversion of Agricultural Waste to Biofuels by Microwave Pyrolysis

Students: Jacob Tawil, Stephen Wihak, Evan Viola, Quinn Kovach, Aidan Lirette

Specialty Chemicals

First Place: Production of Biophenol from Kraft Ligin

Students: Harminder Dosanjh, Radhika Majmudar, Chloe Smith, William Hong, Cindy Zhang

Second Place: Syngas Production using Biogas and Pyrolysis Oil for the Purpose of Gasoline Production

Students: Miguel Gonzalez, Fareed Abuzaid, Nicole Cronin, Hanyoung Choi

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Hydrogen and Fuels

First Place: Integrated Process Scheme for Hydrogen Production and CO2 Methanation

Students: Georgia Auger, Seamus Glazier, Claire Moynihan, Matthew Tutty, Kathryn Zanetti

Second Place: Microbial Process for Hydrogen Production

Students: Shana Alexander, Rachael Miles, Hanna Jedemann, Rukhsh Khan, Narisse Al-Salam, Yazan Hassan

"The annual Capstone competition continues to deliver a wealth of experience for participating students," said Dr. Katherine Albion, Executive Director of the Western Sarnia-Lambton Research Park. "We're thrilled that this year's virtual event continued to provide the students with valuable feedback from our local engineers and researchers to help form the future careers of these students."

Sponsorships totaling \$9,500 were generously donated by: Bluewater Power, NOVA Chemicals, CF Industries, Shell Canada, INEOS-Styrolution, Montrose Environmental Group, SNC-Lavalin, Worley, Western Research Parks, and the Western Sarnia-Lambton Research Park.

The Western-Sarnia-Lambton Research Park was created in November 2003 with the inception of the County of Lambton Community Development Corporation, owned by the County of Lambton. The Research Park manages and operates the property owned by the CLCDC. It boasts 270,000 square feet of leasable area. In addition to its labs and research space, it is home to a number of high profile tenants including Nova Chemicals, Enbridge, the Sarnia-Lambton Economic Partnership, and Worley.

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