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The William G. Lowrie Department of Chemical and Biomolecular Engineering

Cordially invites you to attend a seminar on

**Capture and Conversion of CO2 – Towards CO2 Recycling**

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**Juliana Carneiro**

*Postdoctoral Research Fellow*

*Chemical Engineering & Biomolecular Engineering*

*Georgia Institute of Technology*

**Monday, March 7, 11:30 AM**

**Virtual Webinar**

**Bio**

Dr. Juliana Carneiro is a postdoctoral research fellow in the School of Chemical Engineering & Biomolecular Engineering at the Georgia Institute of Technology with Professor Christopher W Jones. She received her Ph.D. in Chemical Engineering from Wayne State University in 2019 under the supervision of Prof. Eranda Nikolla. Her research interests lie in developing active, selective, and stable electrocatalysis for electrochemical conversion and separation processes, including the electrochemical recycling/upcycling of post-consumer plastics, the capture and storage of CO2 from oceans, and the capture and conversion of atmospheric CO2. She is the recipient of several awards, including, but not limited to the 2017-2018 Ralph H. Kummler Award for Distinguished Achievement in Graduate Student Research, 2018 Women's Initiatives Committee's (WIC) AIChE Travel Award, and the prestigious Student Presentation Awards at the *(i)* Gordon Research Conference on Catalysis, *(ii)* the Michigan Catalysis Society.

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**Abstract**

Our current global fossil-based economy produces significant environmental, economic, and social challenges. Such complex challenges are the defining issues of our time, pushing society toward stepwise decarbonization of our energy and consumption economy. Ideally, the aim is a more just and reliable economy, with minimal social and environmental burdens and the redistribution of economic and environmental benefits. To this end, a circular carbon economy – which integrates energy, chemical, and waste management sectors – offers an opportunity to rethink our linear model. With the CO2 recycling system playing a central role in this proposed model, the scientific community responds with efforts in R&D to create a suite of CO2 mining and utilizationtechnologies.

Please click the link below to join the webinar:

<https://osu.zoom.us/j/98209656735?pwd=YS93SENFTWhMZkxISXI5bWdrSE5Rdz09>

Password: 730928