

# A SCIENCE CAFE EVENT : THE ROLE OF CARBON MATERIALS IN THE ENERGY TRANSITION

02/09  
6pm

Please register if you plan to attend the event:

Registration : [here](#)



Carbon dioxide emissions are driving climate change; for the public, they are associated with combustion of fossil fuels to generate electricity and power transportation systems. Yet, manufacturing of materials is an equally important source of emissions. The transition to renewable electricity generation and electrification of transportation is putting new pressures on our materials supply chains, which is leading to higher manufacturing emissions and additional pressures to mine in fragile environments. Prof. Matteo Pasquali, Director of the Carbon Hub, and Dr. Marie-Nathalie Contou-Carrere (Executive Director of the Rice Sustainability Institute) will discuss how a new class of materials based on carbon could change completely our materials supply chains, accelerating the transition to a sustainable, low-emission future.



**Prof. Matteo Pasquali**

Director of the Carbon Hub



**Dr. Marie-Nathalie  
Contou-Carrere**

Executive Director of the Rice  
Sustainability Institute

Matteo Pasquali is the A. J. Hartsook Professor of Chemical & Biomolecular Engineering, Chemistry, and Materials Science & NanoEngineering at Rice University, where he also serves as Director of the Carbon Hub. Matteo's laboratory is credited with developing a new class of sustainable carbon materials and explaining the interplay of energy, materials, and carbon. Matteo is a Fellow of the American Physical Society and the American Association for the Advancement of Science. Prof. Pasquali and his students have started companies focused on medical applications of CNT fibers and sustainable CNT materials.

Marie Contou Carrere is the Executive Director of the Rice Sustainability Institute whose mission is to develop sustainable and equitable solutions to urgent climate challenges. She is also the Founding Executive Director of the Carbon Hub, launched in 2019 as a partnership between academia, industry and federal labs, led by Rice University and with over 100 researchers in 20 different organizations across four continents. Previously, Dr. Contou-Carrere held various technical and commercial positions at INEOS Olefins & Polymers USA. She holds a Ph.D. in Chemical Engineering and Materials Science from the University of Minnesota and a M. S. from Ecole Centrale Paris, France.

Complimentary :



Italian/French  
food and drinks



Ralph S. O'Connor Building,

Rice University, Houston, TX 77005



Rice University's North Lot



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