

Direct Air Capture (DAC) of CO₂ & the Important Role of Porous Materials in DAC Technology

Join Prof Chris Jones, Georgia Tech, for his webinar 'Direct Air Capture of CO₂ & the Important Role of Porous Materials in DAC Technology' on Oct 27, 2021

NORCROSS, GEORGIA, USA, October 21, 2021 /EINPresswire.com/ -- Join Professor Christopher Jones, from the Georgia Institute of Technology, for his upcoming webinar 'Direct Air Capture (DAC) of CO₂ & the Important Role of Porous Materials in DAC Technology' on October 27, 2021 at 09:00 EST.



The graphic is a blue rectangular banner with a white border. On the left, the Micromeritics logo (a white 'm' in a blue square) is positioned above the text 'Webinar Direct Air Capture (DAC) of CO₂ & the Important Role of Porous Materials in DAC Technology'. Below this, the date and time '27 October 2021 9:00 EST | 14:00 BST | 15:00 CEST' and the URL 'micromeritics.com/webinar' are listed. On the right side, there are two circular headshots. The top one is of Professor Chris Jones, with text identifying him as 'Professor Chris Jones, Chemical & Biomolecular Engineering, Georgia Tech'. The bottom one is of Dr. Jeff Kenvin, with text identifying him as 'Dr. Jeff Kenvin, Group Leader - Scientific Services, Micromeritics'.

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Most current climate models suggest that limiting warming to <2°C will require large scale deployment of negative emissions technologies (NETs). NETs, which remove CO₂ from the atmosphere, are projected to be needed at a scale of 10 Gt/y by 2050, yet today, virtually none of been deployed. NETs may be natural or technological, with one of the most scalable technological approaches being the direct capture of CO₂ from the air, or “direct air capture” (DAC). Because of the ultra-dilute nature of air, the separation of CO₂ from this mixture presents a significant engineering challenge.

In this webinar, Professor Jones will describe the design and synthesis, characterization and application of oxide-supported amine materials that we have developed as cornerstones of new technologies for the removal of CO₂ from dilute (flue gas) and ultra-dilute (air) gas streams. He will describe also elaborate on the development of these materials, how they integrate into scalable DAC technologies, as well as their key physicochemical structure-property relationships. DAC technologies offer an interesting case study for the parallel design of materials, unit operations, and processes in chemical engineering.

[Please click here to register.](#)

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