# Carbon Hub Annual Meeting

**MAY 6 - 7, 2024**

**Rice University**

## Agenda

### MAY 6: Anderson-Clarke Center – Glasscock School of Continuing Studies

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>7:00 – 8:15 am</td>
<td>Check-in &amp; Refreshments</td>
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<td>8:15 – 8:30 am</td>
<td><strong>Welcoming Remarks</strong>:&lt;br&gt;Marie Contou-Carrere, Executive Director, Carbon Hub — Rice University&lt;br&gt;Reginald DesRoches, President — Rice University&lt;br&gt;Matteo Pasquali, Director, Carbon Hub — Rice University</td>
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<td>8:30 – 8:40 am</td>
<td><strong>Framing the Sustainability Challenge</strong>&lt;br&gt;Ken Medlock, Director of the Center for Energy Studies, Baker Institute</td>
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<td>8:40 – 9:20 am</td>
<td><strong>Building Private-Public Partnerships to Accelerate the Carbon Transition</strong>&lt;br&gt;Dhaval Shah, General Manager for Corporate Technology &amp; Innovation — SABIC&lt;br&gt;Ed Ganja, Vice President of Catalyst and Analytical Technology — Shell&lt;br&gt;Luca De Rai, Innovation Manager — Prysmian Group&lt;br&gt;Jeff Miller, Science Program Officer — The Kavli Foundation&lt;br&gt;Steve Singer, Program Director — ARPA-E&lt;br&gt;Moderator: Ramamoorthy Ramesh, Executive Vice President for Research — Rice University</td>
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### MAY 6: Anderson-Clarke Center – Glasscock School of Continuing Studies (Morning)

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<td>9:20 – 10:00 am</td>
<td><strong>The Big Science Questions</strong>&lt;br&gt;John Lockemeyer, Chief Scientist for Catalysis — Shell&lt;br&gt;Nikhil Verghese, Corporate Fellow — SABIC&lt;br&gt;Lisa Biswal, Professor of Chemical &amp; Biomolecular Engineering — Rice University&lt;br&gt;Juan Jose Vilatela, Head of Multifunctional Nanocomposites — IMDEA Materials Institute&lt;br&gt;Marien Simeni, Professor of Mechanical Engineering — University of Minnesota&lt;br&gt;Matteo Cargnello, Professor of Chemical Engineering — Stanford University&lt;br&gt;Moderator: Adam Boies, Professor in Nanomaterials and Aerosol Engineering — University of Cambridge and Q-Flo</td>
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<td>10:00 – 10:30 am</td>
<td>Break</td>
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<td>10:30 – 11:10 am</td>
<td><strong>Progress Towards CNT Commercialization</strong>&lt;br&gt;David Hatrick, Vice President Innovation — Huntsman Advanced Materials&lt;br&gt;Bryan Hassin, CEO — DexMat&lt;br&gt;David Arthur, CEO — CHASM Advanced Materials&lt;br&gt;Jim Sledzik, Director of Strategic Ventures — Saudi Aramco&lt;br&gt;Aimee Lafleur, Lead Research Investment Advisor — Shell Ventures&lt;br&gt;Moderator: Scott Nyquist, Senior Director Emeritus — McKinsey &amp; Company</td>
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<td>11:10 – 11:30 am</td>
<td><strong>Carbon Hub Update</strong>&lt;br&gt;Marie Contou-Carrere, Executive Director, Carbon Hub — Rice University&lt;br&gt;Matteo Pasquali, Director, Carbon Hub — Rice University</td>
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<td>11:30 am – 1:00 pm</td>
<td><strong>Lunch and “Fireside Chat” (12:30 – 12:50 pm)</strong>&lt;br&gt;Scott Wright, President of Advanced Materials Division — Huntsman&lt;br&gt;Moderator: Marie Contou-Carrere, Executive Director, Carbon Hub — Rice University</td>
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| 1:00 – 3:00 pm | **PARALLEL SCIENTIFIC SESSIONS**  
**Carbon Materials Synthesis (Room 107)**  
1:00 pm Eric McFarland, Prof of Chemical Engineering — University of CA, Santa Barbara  
1:20 pm Matteo Cargnello, Ass. Prof. of Chemical Engineering — Stanford University  
1:40 pm Benji Maruyama, Autonomous Materials Lead — AFRL  
2:00 pm Michael Bronikowski, Assoc. Prof. of Chemistry — University of Tampa  
2:20 pm Seung Min Kim, Principal Research Scientist, Institute of Advanced Composite Materials — KIST  
2:40 pm Matteo Pasquali, Director, Carbon Hub — Rice University  
**Soil Amendment and Policy (Room 108)**  
1:00 pm Carrie Masiello, W. Maurice Ewing Prof. of Biogeochemistry — Rice University  
1:20 pm Pedro Alvarez, Prof. of Civil and Environmental Engineering — Rice University  
1:40 pm Dan Cohan, Assoc. Prof. of Civil and Environmental Engineering — Rice University  
2:00 pm Ricardo Prada, CTO — CHASM Advanced Materials  
2:20 pm Mijin Kim, Asst. Prof. of Chemistry & Biochemistry — Georgia Tech  
2:40 pm Dan Heller, Bristol-Myers Squibb / James D. Robison III Faculty Chair — Memorial Sloan Kettering Cancer Center |
| 3:00 – 3:30 pm | Break                                                                                           |
| 3:30 – 4:50 pm | **PARALLEL SCIENTIFIC SESSIONS**  
**Theory (Room 107)**  
3:30 pm Boris Yakobson, Prof. of Materials Science and NanoEngineering — Rice University  
3:50 pm Matteo Maestri, Prof. of Chemical Engineering — Politecnico di Milano  
4:10 pm Tom Senftle, Asst. Prof. Chemical and Biomolecular Engineering — Rice University  
4:30 pm Matteo Pelucchi & Mauro Bracconi, Asst. Profs. of Chemical Engineering — Politecnico di Milano  
**Solid State (Room 108)**  
3:30 pm Geoffrey Wehmeyer, Asst. Prof. of Mechanical Engineering — Rice University  
3:50 pm Doug Natelson, Prof. of Physics & Astronomy — Rice University  
4:10 pm Lisa Biswal, Prof. of Chemical & Biomolecular Engineering — Rice University  
4:30 pm Dan Preston, Asst. Prof. of Mechanical Engineering — Rice University |
| 5:00 – 6:00 pm | Student Poster Sessions  
**6:30 – 8:00 pm**  
Networking Dinner  
Faculty Club at Cohen House — Rice University |
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**PARALLEL SCIENTIFIC SESSIONS**

### Synthesis / Instrumentation / Characterization (Room 130)
- 9:00 am Adam Boies, Professor in Nanomaterials and Aerosol Engineering — University of Cambridge
- 9:20 am Marien Simeni, Professor of Mechanical Engineering — University of Minnesota
- 9:40 am Christian Reece, Rowland Fellow, Senior Investigator — Harvard University
- 10:00 am Jeff Fagan, Project Leader, Particles, Tubes, and Colloids project — NIST
- 10:20 am Jeff Blackburn, Group Research Manager III-Materials Science — NREL

### Structural Composites (Room 132)
- 9:00 am Gianni Royer Carfagni, Prof. of Solids and Structural Mechanics — University of Parma
- 9:40 am Juan Castellon, Asst. Prof. of Architecture — Rice University
- 10:00 am Mark Goulthorpe, Founder — DECOi inc; Assoc. Prof. of Architecture — MIT
- 10:20 am Vanessa Sanchez, Asst. Prof. Mechanical Engineering — Rice University

| 10:40 – 11:00 am | Break |

### PARALLEL SCIENTIFIC SESSIONS

### Characterization (Room 130)
- 11:00 am Eric Stach, Prof. of Materials Science and Engineering — University of Pennsylvania
- 11:20 am Mauricio Terrones, Prof. of Materials Science and Engineering — Penn State University
- 11:40 am Mark Banash, President — Neotericon LLC

### Structural Composites (Room 132)
- 11:00 am Nikhil Verghese, Corporate Fellow — SABIC
- 11:40 am Juan Jose Vilatela, Head of Multifunctional Nanocomposites Group — IMDEA Materials Institute

| 12:00 – 1:00 pm | Lunch |
MAY 7: O’Connor Building for Engineering & Science (Afternoon)

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| 1:00 – 2:00 pm | Kickoff of Sustainability & Policy Workshop (Jointly with Baker Institute for Public Policy)  
Michelle Michot Foss, Fellow in Energy, Minerals and Materials, Baker Institute — Rice University  
Rachel Meidl, Fellow in Energy and Sustainability, Baker Institute — Rice University  
Dan Heller, Bristol-Myers Squibb / James D. Robison III Faculty Chair — Memorial Sloan Kettering Cancer Center  
Mijin Kim, Asst. Prof. of Chemistry & Biochemistry — Georgia Tech  
Alex Dantzler, PhD Candidate, Chemical and Biomolecular Engineering — Rice University |
| 2:00 – 3:00 pm | “Physical” and “Financial” Sustainability Challenges  
Peter Bryant, Executive Business Strategist — Clareo  
Jack Neal, Opportunity Evaluation & Decision Quality Consultant; ret. ExxonMobil Geoscientist & Sr. Economic Consultant |
| 3:00 – 4:00 pm | Directions for Carbon Hub (Q & A Discussion)  
Peter Bryant, Executive Business Strategist — Clareo  
Jack Neal, Opportunity Evaluation & Decision Quality Consultant; ret. ExxonMobil Geoscientist & Sr. Economic Consultant |
| 4:00 – 4:30 pm | Summary and Forward Actions  
Matteo Pasquali, Director, Carbon Hub — Rice University |
| 4:30 pm | End of the Annual Meeting 2024 |

“Guided by a strategy that is holistic, transparent, and collaborative, the Carbon Hub will advance technology that provides clean hydrogen energy and valuable widespread carbon materials by fundamentally changing the way the world uses fossil hydrocarbons.”

—MATTEO PASQUALI