

Carnegie Mellon University
energyweek
cmuenergyweek.org

March 23-27, 2020

Carnegie Mellon University, Jared L. Cohon University Center (CUC) Rangos Ballrooms, 2nd floor
 5032 Forbes Avenue, Pittsburgh, PA 15213

**All events are in the Cohon University Center's Rangos Rooms and proximity, unless noted.*

Monday, March 23 (Day 1 – Pre-Programming)

| Time | Event | Panelists/Speakers/Notes | Location |
|------------|---------------------------------------|--|---------------------|
| 8am | Hackathon Registration | CMU VentureWell Energy Hackathon – Registration Opens, Day 1 Check In | Rangos Hallway |
| 8 – 8:30am | | <i>Hackathon Team Breakfast</i> | Rangos 3 |
| 8:30 – 9am | Kickoff – Hackathon | CMU VentureWell Energy Hackathon Kickoff | Rangos 3 |
| 9 – 9:30am | Hackathon | Hackathon Challenge Presentations <i>Challenge Partners present challenges to Hackathon teams, followed by Q&A.</i> | Breakout Rooms |
| 9:30am | Hackathon | Hackathon Competition Begins! | Breakout Rooms |
| 11am – 2pm | Career Fair Registration | CMU Energy Career Fair – Recruiter Check-In | Rangos Hallway |
| 12 – 2pm | Corporate Recruiter Welcome Reception | <i>Corporate Recruiter Lunch 12-2pm Hackathon Lunch 1-2pm</i> | Rangos 3 |
| 2 – 11pm | Hackathon | Hackathon Teams continue | Breakout Rooms |
| 2 – 5pm | Career Fair | CMU Energy Career Fair | Rangos 1 & 2 |
| 5 – 7pm | Happy Hour & Reception | <i>Happy Hour and Off Campus Reception</i> | The Oaklander Hotel |

Tuesday, March 24 (Day 2)

| Time | Event | Panelists/Speakers/Notes | Location |
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| 8am – 8pm | Registration | Registration OPEN for CMU Energy Week 2020 | Rangos Hallway |
| 7am | Hackathon | CMU VentureWell Energy Hackathon, Day 2 Check In | Rangos Hallway |
| 7 – 8am | | <i>Breakfast for Hackathon Participants</i> | Rangos 3 |
| 8 – 9:30am | Hackathon | Round 1 Team Presentations & Deliberations | Breakout Rooms |

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| 9:30 – 11am | Hackathon | Hackathon Final Presentations on Main Stage – The final teams present their findings to a panel of distinguished judges. | Rangos 1 & 2 |
| 11 – 11:30am | Kickoff & Brunch | CMU Energy Week 2020 Begins <i>Brunch Available in Rangos 3 – Grab a plate and join us in Rangos 1 & 2 for our first speaker.</i> | Rangos 1, 2 & 3 |
| 11:30am – 12pm | <u>Keynote</u> | Cris Eugster, COO – CPS Energy | Rangos 1 & 2 |
| 12 – 12:45pm | Kickoff & Welcome – VIPs & Government Officials | CMU Energy Week 2020 – Official Welcome and VIP, Government Official Remarks <ul style="list-style-type: none"> • Carnegie Mellon University Leadership • Mayor Bill Peduto • Councilman Corey O’Connor • Councilwoman Erika Strassburger | Rangos 1 & 2 |
| 12:45 – 1:15pm | <u>Keynote</u> | Maria T. Vargas , Senior Program Advisor, Office of Energy Efficiency and Renewable Energy – U.S. Department of Energy (DOE) | Rangos 1 & 2 |
| 1:15 – 1:45pm | <u>Keynote</u> : <i>The Future of Energy Technology</i> | Mark de Vere White , Senior VP, Global Customer and Market Experience – Itron | Rangos 1 & 2 |
| 1:45 – 2:30pm | <u>Panel</u> : The UN Sustainability Goals – Shaping Efforts Within Organizations to Elevate & Amplify the SDGs | <ul style="list-style-type: none"> • Alex Hiniker, Executive Fellow for Sustainability Initiatives – Carnegie Mellon University [moderator] • Grant Ervin, Chief Resilience Officer – City of Pittsburgh • Steve Guenther (TPR ’02), Assistant VP, Facilities Management and University Engineer – Carnegie Mellon University • Jana Lake, CEO – 3R Sustainability • Rebecca Lucore, Head of Sustainability and Corporate Social Responsibility – Covestro • Joylette Portlock, Executive Director – Sustainable Pittsburgh | Rangos 1 & 2 |
| 2:30 – 3:30pm | Break & Poster Presentations | CMU Student Research Poster Competition | Rangos 3, McKenna, Peter, Wright Rooms |
| 3:30 – 4:15pm | <u>Panel</u> : The Role of Natural Gas in a Decarbonizing Energy System | <ul style="list-style-type: none"> • Andrew Place (HNZ ’08; P: MCS ’22), Commissioner – Pennsylvania Public Utility Commission [moderator] • Denise Brinley, Executive Director – Pennsylvania Governor’s Office of Energy • Libby Edgar, CFO, GI Energy – Shell | Rangos 1 & 2 |

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| | | <ul style="list-style-type: none"> • Trip Oliver, Corporate Affairs Manager – Chevron | |
| 4:15 – 5pm | <p>Panel: Drones, AVs, & Micro Transit: The Electric Future of Multi-Modal Mobility and Delivery</p> | <ul style="list-style-type: none"> • Constantine Samaras (COE '08), Associate Professor – Carnegie Mellon University [moderator] • Taki Darakos, VP, Vehicle Maintenance & Fleet Services – PITT OHIO • Katharine Kelleman, CEO – Port Authority of Allegheny County • Sila Killcote (CFA '95; P: MCS '18, COE '22), CEO – eIQ Mobility • Stanley Young, Advanced Transportation and Urban Scientist – National Renewable Energy Laboratory (NREL) | Rangos 1 & 2 |
| 5 – 5:45pm | Keynote | Michael Dorsey , Co-Founder, Around the Corner Capital and Full Member, The Club of Rome | Rangos 1 & 2 |
| 5:45 – 6pm | Hackathon & Poster Competition – Winner Announcements! | CMU VentureWell Energy Hackathon Winners & Student Poster Competition Winners Announced | Rangos 1 & 2 |
| 6 – 7:30pm | VIP Reception & Briefnote | <p>VIP Evening Reception Briefnote: Steve Malnight, CEO, Duquesne Light Company</p> <p><i>By Invitation only. Contact Anna Siefken. asiefken@andrew.cmu.edu.</i></p> | Rangos 3 |

Wednesday, March 25 (Day 3)

| Time | Event | Panelists/Speakers/Notes | Location |
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| 8am – 8pm | Registration | Registration OPEN for CMU Energy Week 2020 | Rangos Hallway |
| 8:30 - 9:30am | | <i>Breakfast</i> | Rangos 3 |
| 9:30am | Kickoff & Welcome | Day 3 Welcome and Announcements | Rangos 1 & 2 |
| 9:45 – 10:15am | <p>Panel: Building a Modern Grid: Considerations and Planning for Energy Systems</p> | <ul style="list-style-type: none"> • Jay Apt, Professor and Co-Director of Carnegie Mellon Electricity Industry Center – Carnegie Mellon University [moderator] • George Bjelovuk, VP, Energy Solutions – Siemens • Erin Boyd, Chief Research Officer, Data Scientist; Senior Director, Distributed Energy Resources – Center for Sustainable Energy • Jason Harchick, General Manager, System Planning/Protection and Compliance – Duquesne Light Company | Rangos 1 & 2 |

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| | | <ul style="list-style-type: none"> • Patricia Hoffman, Principal Deputy Assistant Secretary, Office of Electricity – U.S. Department of Energy (DOE) • Katrina Kelly-Pitou, Urban Systems Strategist – SmithGroup <p><i>Introduction by Susan Lewis</i>, Sustainability Manager – Comcast NBCUniversal</p> | |
| 10:15 – 11:00am | Panel: Nuclear Power Generation – Present and Future | <ul style="list-style-type: none"> • Michael Ford (COE '17), Strategy Development Director, Energy and Global Security Directorate – Argonne National Laboratory (ANL) [moderator] • Rita Baranwal, Assistant Secretary, Department of Nuclear Energy – U.S. Department of Energy (DOE) • Bob Braun, SVP & COO – ARC Nuclear • Methods – Westinghouse • Cenk Guler, Manager, PWR Core • Jessica Lovering (COE '19), Fellow – The Energy for Growth Hub | Rangos 1 & 2 |
| 11:00am – 11:45am | Panel: AI & Energy – Examining the Potential to Bolster Smart Transitions beyond Cybersecurity | <ul style="list-style-type: none"> • John Failla, Founder & Editorial Director – Smart Energy Decisions [moderator] • Salam Bani-Ahmed, Lead Engineer, Power Systems Cybersecurity – Eaton • Mario Berges, Professor – Carnegie Mellon University • Sakshi Mishra (COE '15), Energy Researcher and Power Systems Engineer – National Renewable Energy Laboratory (NREL) • Praveen Palanisamy, Senior AI Engineer – Microsoft • Pete Tseronis, Founder & CEO – Dots and Bridges | Rangos 1 & 2 |
| 11:45am – 12:15pm | Keynote | <i>Special Guest Speaker to be Announced</i> | Rangos 1 & 2 |
| 12:15 – 1pm | | <i>Networking Lunch</i> | Rangos 3 |
| 1 – 1:45pm | Podcast: CMU Sunnyside Up Solar-Powered Podcast | <p>CMU Sunnyside Up Solar-Powered Podcast, in partnership with SunCast Media, hosted by Nico Johnson.</p> <p><i>Introduction by Rich Fitzgerald</i> (COE '81), County Executive, Allegheny County</p> | Rangos 1 & 2 |
| 1:45 – 2:30pm | Panel: Will Batteries Take to the Skies? Identifying the Power Needs for Electric Aviation | <ul style="list-style-type: none"> • Venkat Viswanathan, Associate Professor – Carnegie Mellon University [moderator] • Jeff Engler, CEO – Wright Electric • Ed Lovelace, Technical Fellow, High Power Electrical Systems – Aurora Flight Sciences | Rangos 1 & 2 |

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| | | <ul style="list-style-type: none"> • Ajay Misra, Deputy Director, Research & Engineering Directorate – NASA Glenn Research Center • Rakesh Radhakrishnan, Technology-to-Market Advisor – Advanced Research Projects Agency - Energy (ARPA-E) | |
| 2:30 – 3:30pm | Panel | Department of Energy National Lab Directors Roundtable | Rangos 1 & 2 |
| 3:30 – 4pm | | <i>Afternoon Break</i> | Rangos 3 |
| 4 – 4:45pm | Fireside Chat | A Conversation with Lane Genatowski (P: D '10), Director – Advanced Research Projects Agency - Energy (ARPA-E) and Ilan Gur , CEO – Activate | Rangos 1 & 2 |
| 4:45 – 5:30pm | Panel: Sparking Innovation – How DOE is Leveraging Competition to Drive New Technologies | <ul style="list-style-type: none"> • Debbie Brodt-Giles, American-Made Challenges Manager – National Renewable Energy Laboratory (NREL) [moderator] • Katherine McMahon, ORISE Science and Technology Scholar, Vehicle Technologies Office – U.S. Department of Energy (DOE) • Sean Porse, Program Manager – Geothermal Technology Office – U.S. Department of Energy (DOE) • John Smegal, Workforce Development Lead – Advanced Manufacturing Office – U.S. Department of Energy (DOE) • Rukmani Vijayaraghavan, AAAS Science and Technology Policy Fellow, Water Power Technology Office – U.S. Department of Energy (DOE) | Rangos 1 & 2 |
| 5:30 – 6pm | | <i>Transit to Mill 19 @ Hazelwood Green</i> | <i>Transportation Available</i> |
| 6 – 8pm | Reception, Briefnote & Panel: The Future of Manufacturing – Additive, Advanced, & Industrial Energy Tours of Mill 19 | <p>Special Evening Reception Event at Mill 19 @ Hazelwood Green</p> <p>Briefnote: Conner Prochaska, Chief Commercialization Officer and Director of the Office of Technology Transitions – U.S. Department of Energy (DOE)</p> <p>Panel:</p> <ul style="list-style-type: none"> • Gary Fedder, Interim CEO; Professor, Electrical and Computer Engineering – Advanced Robotics for Manufacturing (ARM) Institute; Carnegie Mellon University [moderator] • Sandra DeVincent Wolf, Director of Research Partnerships, College of Engineering – Carnegie Mellon University | Mill 19 @ Hazelwood Green |

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| | | <ul style="list-style-type: none"> • Srinivas Garimella, Global Leader, Additive Manufacturing Center of Excellence – Eaton • Haresh Malkani, Chief Technology Officer – Clean Energy Smart Manufacturing Innovation Institute (CESMII) • Petra Mitchell, President & CEO – Catalyst Connection • Audrey Russo, President & CEO – Pittsburgh Technology Council <p>Tours: Mill 19 and Advanced Robotics for Manufacturing (ARM) Institute</p> | |
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Thursday, March 26 (Day 4)

| Time | Event | Panelists/Speakers/Notes | Location |
|-----------------|---|---|-----------------|
| 9am – 6pm | Registration | Registration OPEN for CMU Energy Week 2020 | Rangos Hallway |
| 8:30 – 9:30am | | <i>Breakfast</i> | Rangos 3 |
| 9:30am | Kickoff – Investor Forum | CMU Energy + Cleantech Investor Forum | Rangos 1 |
| 9:35 – 10:15am | <u>Keynote</u> | Rich Lunak , CEO – Innovation Works | Rangos 1 |
| 10:15 – 11:15am | <u>Panel:</u> Evolving Investment in Cleantech and Energy – Five Funders | <ul style="list-style-type: none"> • Jeff McDaniel, Executive-in-Residence – Innovation Works [moderator] • Ian Adams, Managing Director – Clean Energy Trust • Josh Beck, Managing Director & Chief Investment Officer – BCI Technology • Sarah Chamberlain, Managing Director – Energy Foundry • Amy Duffuor, Principal – Prime Impact Fund • Josh Gould, Director of Innovation – Duquesne Light Company • Mark Thomas, President – Pittsburgh Regional Alliance | Rangos 1 |
| 11:15am – 12pm | | <i>Networking Lunch</i> | Rangos 3 |
| 12 – 1:30pm | Investor Forum | CMU Energy + Cleantech Investor Forum – Start-up Pitch Presentations | Rangos 1 |
| 1:30 – 2:45pm | Private Sessions | CMU Energy + Cleantech Investor Forum: One-on-One Meetings | Rangos 2 |
| 2:45 – 3pm | Investor Forum – Winner Announcements! | CMU Energy + Cleantech Investor Forum – Selection of Best Pitches & Announcements | Rangos 1 |

Working DRAFT as of 3/6/20

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| 3 – 3:30pm | Demo Day Registration | DOE American-Made Solar Prize Demo Day Team Check-In Opens | Rangos Hallway |
| 3 – 3:30pm | | <i>Afternoon Break</i> | Rangos 3 |
| 3:30 – 4:30pm | Tour | Walking Tour of Scott Hall | Meet at CMU Energy Week 2020 Registration Desk |
| 3:30 – 6pm | Law Symposium | Energy Law and Policy Symposium (<i>in partnership with the University of Pittsburgh School of Law</i>) | Rangos 1, Breakout Rooms |
| 5 – 6pm | Registration & Kickoff – Case Competition | CMU Tepper School of Business Cleantech Case Competition (TC3) in Tepper Quad begins | Tepper Quad, Floor 2 |
| 6 – 7:30pm | Reception | <i>Evening Cocktail Reception</i> | Swartz Center for Entrepreneurship at Tepper Quad |

Friday, March 27 (Day 5)

| Time | Event | Panelists/Speakers/Notes | Location |
|-------------------|----------------------------|--|-----------------|
| 8am–5pm | Registration | Registration OPEN for CMU Energy Week 2020 | Rangos Hallway |
| 7 – 9am | | <i>Networking Breakfast</i> | Rangos 3 |
| 8 – 8:30am | Kickoff – Case Competition | CMU’s Tepper School of Business Cleantech Case Competition Kickoff | Rangos 1 |
| 8:30am – 3:30pm | Case Competition | Case Competition Begins | Breakout Rooms |
| 8:45 – 9am | Kickoff – <i>Demo Day</i> | DOE American-Made Solar Prize Demo Day Kickoff | Rangos 1 |
| 9 – 11:30am | Demo Day | Demo Day – Pitch Presentations Judges: <ul style="list-style-type: none"> • Josh Beck, Managing Director & Chief Investment Officer – BCI Technology • Becca Jones-Albertus, Director, Solar Energy Technologies Office – U.S. Department of Energy (DOE) • Victor Kane, Solar Prize Lead, Energy Efficiency and Renewable Energy, Solar Energy Technologies Office – U.S. Department of Energy (DOE) • Lisa Salley, VP, Global Industry Services – American Petroleum Institute (API) • Phoebe Wang, Principal – Shell Ventures | Rangos 1 |
| 11:30am – 12:15pm | | <i>Networking Lunch</i> | Rangos 3 |

Working DRAFT as of 3/6/20

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| 12:15 – 1pm | Keynote & Case Competition – Finalist Announcements | Marlene Santos (P: CS '13), President, Gulf Power Company Tepper School of Business Cleantech Case Competition – Finalists will be announced. | Rangos 1 |
| 1 – 4:30pm | Demo Day | DOE American-Made Solar Prize – Demo Day Technology Exhibits Open. | Rangos 2 |
| 1-2:30pm | Tours | <i>Walking Tours around campus available (specific tour registration information forthcoming).</i> | Meet at CMU Energy Week 2020 Registration Desk |
| 2:30-3pm | | <i>Refreshments Available</i> | Rangos 3 |
| 3 – 5pm | Case Competition | Tepper School of Business Cleantech Case Competition – Finalist Presentations on Main Stage. | Rangos 1 |
| 5 –7:30pm | Reception | <i>Closing Evening Reception Refreshments in Rangos 3 as we wait for winner announcements, which will occur in Rangos 1.</i> | Rangos 3 |
| 5 – 5:30pm | Case Competition – Winner Announcements | Tepper School of Business Cleantech Case Competition – Winners announced on Main Stage. | Rangos 1 |
| 6 – 7:30pm | Demo Day – Winners Announcement | Demo Day Winners Announced: DOE Leadership will present up to ten winning teams with \$100,000 each for a grand total of \$1,000,000 in prizes | Rangos 1 |
| 7:30pm | | <i>End of CMU Energy Week 2020</i> | |