

Cohort 6 Virtual Finals Pitch Competition

9 A.M., TUESDAY, FEBRUARY 22

9 – 9:15 a.m. Welcome Remarks
Stephen Streiffer, Deputy Lab Director for Science & Technology
John Carlisle, Director, Chain Reaction Innovations

Session I Energy Generation & Quantum
12-minute pitch, followed by 10-minute Q/A and 3 minutes for panelists to record notes
9:15 a.m. **Ryan Goethals**, metal air harvester
9:40 a.m. **Zachary Berquist**, transparent refractory aerogels for solar energy
10:05 a.m. **John Krzeminski**, clean six-cycle, two-stroke combustion engine
10:30 a.m. **Manish Kumar Singh & Sean Sullivan**, silicon-compatible platform for quantum applications

1 – 1:05 p.m. Afternoon Welcome Remarks
John Carlisle, Director, Chain Reaction Innovations

Session II Circular Economy, Energy Storage, Materials
12-minute pitch, followed by 10-minute Q/A and 3 minutes for panelists to record notes
1:05 p.m. **Ryan Hackler & Robert Kennedy**, chemical recycling of plastic waste to higher value lubricants
1:30 p.m. **Joanne Rodriguez**, mycoremediation of waste into new materials
1:55 p.m. **Brandon Howe**, gallium oxide power electronics
2:20 p.m. **George Sadler**, magnetic induction for industrial thermal processing

9 A.M., WEDNESDAY, FEBRUARY 23

9 – 9:15 a.m. Welcome Remarks
Megan Clifford, Associate Lab Director, S&TPO
John Carlisle, Director, Chain Reaction Innovations

Session III Decarbonization and Materials
12-minute pitch, followed by 10-minute Q/A and 3 minutes for panelists to record notes
9:15 a.m. **Tae Hwan Lim**, distributed direct air capture system
9:40 a.m. **Christopher Nichols**, bio-based, acrylics from lactic acid
10:05 a.m. **Kristian Gubsch**, low-cost, low-carbon acrylonitrile
10:30 a.m. **Michelle Ruiz**, valorization of wastewater for production of nutritious food

1 – 1:05 p.m. Afternoon Welcome Remarks
John Carlisle, Director, Chain Reaction Innovations

Session IV Water Technologies,
12-minute pitch, followed by 10-minute Q/A and 3 minutes for panelists to record notes
1:05 p.m. **Vikas Nandwana**, produced water treatment
1:30 p.m. **Adam Uliana & Ever Velasquez**, membranes for water purification, metal recovery and desalination
1:55 p.m. **Thomas Horseman**, solar desalination