

#### 120 Physical Sciences Building (PSB), Cornell University

**Wednesday May 22**

**8:00 – 8:30 am Breakfast & Registration – *PSB Clark Atrium***

**8:30 – 9:00 am Welcome Remarks and Introduction – *120 PSB***

*Prof. Frank Wise, Director, CCMR; with the Symposium Organizing Committee: Profs. Yong Joo, Chemical and Biomoelecular Engineering, and Jin Suntivich, Materials Science and Engineering, Cornell University*

**9:00 – 10 am Sproull Lecture – Materials Science for Better Batteries. Achievements and New Directions**

*Prof. Jean-Marie Tarascon, Solid State Chemistry and Energy, Collège de France*

**10:00 – 10:30 am** **The Pursuit and Discovery of Vehicle Electrification Markets using Lithium-ion and/or Fuel Cell Powertrains**

[*Prof. Mark Mathias*](http://www.hajim.rochester.edu/che/people/faculty/mathias-mark/index.html)*, Chemical Engineering, University of  Rochester*

**10:30 – 10:45 am****Coffee Break & Posters – *PSB Clark Atrium***

**10:45 – 11:15 am Beyond Platinum Alloy Cathode Catalysts for Polymer Electrolyte Fuel Cells.**

*Dr. Deborah Myers, Hydrogen and Fuel Cells Materials Group, Argonne National Laboratory*

**11:15 – 11:45 am The Importance of Materials Porosity in Fuel Cell Performance at High Power and Use of Hydrogen Fuel Cells in Unmanned Air Vehicles**

*Dr. Karen Swider Lyons, Director, Laboratory for Autonomous Systems Research, US Naval Research Laboratory*

**11:45 – 1:15 pm**  **Lunch and Poster Session – *PSB Clark Atrium***

**1:15 – 1:45 pm** **Designing Electrolytes and Interphases for Lithium Batteries**

*Prof. Lynden Archer, Chemical and Biomolecular Engineering, Cornell University; and Founder and Board Member of NOHMs, Rochester, NY*

**1:45 – 2:15 pm** **How Far Can We Push the Limits of Intercalation Batteries**

*Prof. Stanley Whittingham, Chemistry and Materials Science and Engineering, SUNY at Binghamton*

**2:15 – 2:30 pm****Coffee Break & Posters – *PSB Clark Atrium***

**2:30 – 3:00 pm Safe and Highly Conductive Electrolytes: From Liquid to Solid**

*Dr. Andreas Hintennach, Group Research, Daimler AG*

**3:00 – 3:30 pm Title**

*Dr. Derek C. Johnson, Global R&D, A123 Systems, LLC*

**3:30– 3:45 pm Wrap up**

**3:45 – 5:30 pm Poster Session and Reception - Baker Portico**