



**Energy, Education and Excellence: A Symposium honoring Robert C. Armstrong**

**September 18, 2023**

**MIT Hacker Reactor E38, 7<sup>th</sup> fl | 292 Main Street, Cambridge, MA**

The symposium includes presentations and discussions on Professor Armstrong's many contributions to the fields of chemical engineering and energy, and on the future of these fields. The symposium will also be a reunion of former and current students, post-docs, academic and industrial friends, and colleagues.

**Monday, September 18**

*All times listed are in Eastern time.*

**8:30-9:00 am**      **Registration and light breakfast**

**9:00-9:15 am**      **Welcome and opening remarks**

**Paula Hammond**, Chemical Engineering Department Head and Institute Professor

**9:15-10:30 am**      **Macromolecular Hydrodynamics: A journey through rheology and mentorship**

**Moderator Gareth McKinley**, School of Engineering Professor of Teaching Innovation, MIT

- **Jeffrey Giacomin**, Editor-In-Chief of *Physics of Fluids*
- **Osman Basaran**, Burton and Kathryn Gedge Professor of Chemical Engineering, Purdue University
- **Saad Khan**, Professor of Chemical Engineering, North Carolina State University

**10:30-10:45 am**      **Break**

**10:45 am-12:00 pm**      **Macromolecular Hydrodynamics: A journey through rheology and mentorship cont.**

- **Antony N. Beris**, Arthur B. Metzner Professor of Chemical and Biomolecular Engineering, University of Delaware
- **Nina Shapley**, Associate Professor of Chemical and Biochemical Engineering, Rutgers University
- **Micah Green**, Professor and Associate Department Head in the Artie McFerrin Department of Chemical Engineering, Texas A&M University
- **Safa Jamali**, Associate Professor of Mechanical Engineering, Northeastern University
- Closing the Rheology Session with the RCA Family Tree



- 12:00-12:45 pm**      **Lunch**
- 12:45-12:50 pm**      **Introduction of MITEI**  
**Robert Stoner**, Interim Director, MIT Energy Initiative
- 12:50-1:05 pm**      **Why MITEI?**  
**Susan Hockfield**, President Emerita and Professor of Neuroscience, MIT
- 1:05-1:30 pm**      **The Making of MITEI**  
**Ernest Moniz**, Cecil and Ida Green Professor of Physics and Engineering Systems Emeritus and Special Advisor to the President, MIT
- 1:30-2:30 pm**      **Contemporary Energy Research at MIT**  
**Moderator Alan Hatton**, Ralph Landau Professor and Director of the Director David H Koch School Chemical Engineering Practice, MIT
- **Angela Belcher**, James Mason Crafts Professor and Department head of Biological Engineering, MIT
  - **Kristala Prather**, Arthur Dehon Little Professor of Chemical Engineering, MIT
  - **Yogesh Surendranath**, Professor of Chemistry and Chemical Engineering, MIT
  - **Kripa Varanasi**, Professor of Mechanical Engineering, MIT
- 2:30-3:30 pm**      **The Futures of Energy**  
**Moderator Paul Joskow**, Elizabeth & James Killian Professor of Economics and President Emeritus of the Alfred P Sloan Foundation, MIT
- **Vladimir Bulovic**, Director of MIT.nano, MIT
  - **Jacopo Buongiorno**, TEPCO Professor of Nuclear Science and Engineering, MIT
  - **Howard Herzog**, Senior Research Engineer, MIT Energy Initiative
  - **Dharik Mallapragada**, Principal Research Scientist, MIT Energy Initiative
  - **Elsa A. Olivetti**, Jerry McAfee (1940) Professor of Materials Science and Engineering, co-director of the MIT Climate and Sustainability Consortium, MacVicar Faculty Fellow, MIT
  - **Richard Schmalensee**, Professor of Economics Emeritus and Howard W. Johnson Professor of Management Emeritus, MIT



**Chemical  
Engineering**



**3:30-3:50 pm**

**Reflections on the Challenge Before Us**

**John Deutch**, Institute Professor Emeritus and Professor of Chemistry, MIT

**3:50-4:10 pm**

**Energy and Climate at MIT**

**Maria Zuber**, E A Griswold Professor of Geophysics & Vice President of Research, MIT