



Boston University Office of Research

Research on Tap

Developing Technologies for a Sustainable Future

Wednesday, December 7, 2022 | 4-6 PM | Kilachand Center

WELCOME

Gloria Waters

Vice President and Associate Provost for Research

Emily Ryan

Associate Professor, Mechanical Engineering, ENG; Associate Director, Institute for Global Sustainability

PRESENTATIONS

Fixing Carbon and Breaking Nitrogen: A Bioinorganic Chemist's Guide to Sustainability

Sean J. Elliott, PhD, Professor, Chemistry, CAS; Materials Science & Engineering, ENG

Towards a Better Future for Humankind: Intelligent Design of Novel Materials for Catalyst Design

James Chapman, PhD, Assistant Professor, Mechanical Engineering; Materials Science & Engineering, ENG

Plasmonic Nanoreactors

Björn M. Reinhard, PhD, Professor, Chemistry, CAS; Director, Nano-Bio Interface Laboratory

Atomically Thin Materials for Electrochromic Devices: Coloring with Less Energy

Xi Ling, PhD, Assistant Professor, Chemistry, CAS

Exploring & Regulating Mass Transport Across Nanopores for Sustainable Electronics and Carbon Footprint

Chuanhua Duan, PhD, Associate Professor, Mechanical Engineering; Materials Science & Engineering, ENG

Reducing CO₂ Emissions Below Zero

Sean Lubner, PhD, Assistant Professor, Mechanical Engineering; Materials Science & Engineering, ENG

Interfacial Phenomena in Energy Technologies

Emily Ryan, PhD, Associate Professor, Mechanical Engineering, ENG; Associate Director, Institute for Global Sustainability

Tailored and Architected Batteries

Jörg Werner, PhD, Assistant Professor, Mechanical Engineering; Materials Science & Engineering, ENG

Sustainable Computing (and Computing for Sustainability)

Ayşe K. Coskun, PhD, Professor, Electrical & Computer Engineering, ENG

Grid Scale Renewable Energy Storage: A Case for Reversible Solid Oxide Cells

Srikanth Gopalan, PhD, Associate Professor, Materials Science & Engineering; Mechanical Engineering, ENG

The Many Disciplines of Sustainability

Robert K. Kauffmann, PhD, Professor, Earth & Environment, CAS

Equity, Justice, and Low-Carbon Technology

Benjamin K. Sovacool, PhD, MsC, Director, Institute for Global Sustainability; Professor, Earth & Environment, CAS