Dr. Joe Cresko

Joe Cresko is the Chief Engineer and Strategic Analysis Lead in DOE's Advanced Manufacturing Office (AMO), where he leads AMO's efforts to assess the life cycle and cross-sector impacts of advanced manufacturing technologies. Joe has also served at DOE as an Engineering Sciences Fellow for the Industrial Technologies Program, and a Science & Technology Policy Fellow in the Office of Energy Efficiency & Renewable Energy.

Prior to joining DOE, Joe was the Director of the Emerging Technology Applications Center in Bethlehem, PA, where he helped manufacturers to improve their energy efficiency and environmental footprint through industrial energy efficiency assessments and applied R&D. He has expertise in the application of electrotechnologies for materials processing and manufacturing innovations, including the use of microwave, radio-frequency, induction, UV and electron beam technologies. Joe has performed research, analysis and technology transfer for the aerospace, ceramics, polymer, composites, foundry and food manufacturing industries.

Dr. Ellen Stechel

Ellen B Stechel is Co-Director of ASU LightWorks$^{\circ}$; Professor of Practice in the School of Molecular Sciences; and Senior Sustainability Scientist in the Julie Ann Wrigley Global Futures Laboratory all at Arizona State University. Her career has afforded her opportunities to build and/or coordinate research programs at a national laboratory, industry, a U.S. government agency, and now in higher education at ASU; in both basic and applied research; policy and commercialization of emerging technologies; and in multi-disciplinary, multi-organizational R&D strategy and management.

Dr. Davide Zampini

Dr. Davide Zampini, Ph.D Civil Engineering – Northwestern University (Evanston, IL).
Head of Global Research & Development at CEMEX
Research: materials engineering, cement chemistry, novel binders, construction chemicals, novel construction systems

Mr. Ron Kent

Ron Kent leads the Low Carbon Resource RD&D program at SoCalGas. LCR focuses is on developing renewable and low carbon methane and hydrogen technology pathways. This includes a portfolio of more than 30 projects involving renewable and synthetic methane, hydrogen production, carbon capture, utilization and sequestration, and significantly, two remarkable solar thermochemical projects. Today, Ron will briefly discuss some key take-aways from those projects.

Dr. Peter Pfromm

Dr. Pfromm is a Professor of Chemical Engineering at Washington State University in Pullman, Washington. He has previously served as reviewer and panelist for the National Academies, and served on a DOE BES panel on sustainable ammonia synthesis in 2016. He spent several years in industry early in his career before joining academia with basic and applied research that has been supported by DOE, NSF, USDA, and industrial companies in the pharmaceutical, pulp and paper, and other industries.

Mr. Vikas Tuteja

Vikas is the Chief Operating Officer at Heliogen, the clean energy company focused on eliminating the need for fossil fuels in all sectors of the economy.

He is an operations, finance and strategy professional with over 25 years of experience as an engineer, management consultant, investor, and operator for companies in industries as diverse as telecommunications, industrials, agriculture and cleantech.

Vikas currently manages the development and commercialization of Heliogen's novel concentrating solar technology

Dr. Philipp Furler

Philipp received his PhD in Mechanical Engineering from ETH Zurich and an Executive MBA from the University of Strathclyde. Philipp has more than ten years of experience in high-temperature solar chemistry and reactor engineering and serves as Operating Agent – Solar Chemistry Research for the International Energy Agency's technology program SolarPACES. Prior to joining Synhelion, Philipp co-founded the ETH spin-off company Sunredox, which was acquired by Synhelion in 2018.