

## **Dr. S. Julio Friedmann**

Dr. Julio Friedmann is a Senior Research Scholar at the Center for Global Clean Energy Policy at Columbia University, where he leads a new initiative in carbon management. He is also CEO of Carbon Wrangler, LLC. Recently, he served as Principal Deputy Assistant Secretary for the Office of Fossil Energy at the Department of Energy, where he held responsibility for DOE's R&D program in advanced fossil energy systems, carbon capture, and storage (CCS), CO<sub>2</sub> utilization, and clean coal deployment. His expertise includes Large-Scale Carbon Management, CO<sub>2</sub> removal, CO<sub>2</sub> recycling, Oil and Gas systems, international engagements in clean energy, and inter-agency engagements within the US government. He has also held positions at Lawrence Livermore National Laboratory, including Senior Advisor for Energy Innovation and Chief Energy Technologist, is a Distinguished Associate at the Energy Futures Initiative, and serves as a special advisor to Total SA and the Global CCS Institute. He was recently named as a Senior Fellow to the Breakthrough Institute and a Stanford Precourt Scholar.

Dr. Friedmann is one of the most widely known and authoritative experts in the U.S. on carbon removal (CO<sub>2</sub> drawdown from the air and oceans), CO<sub>2</sub> conversion and use (carbon-to-value), and carbon capture and sequestration. Dr. Friedmann received his Bachelor of Science and Master of Science degrees from the Massachusetts Institute of Technology (MIT), followed by a Ph.D. in Geology at the University of Southern California. He worked for five years as a senior research scientist at ExxonMobil, then as a research scientist at the University of Maryland.