Carbon-Negative & Dollar-Positive

GLOBAL CO2 Initiative

UNIVERSITY OF MICHIGAN

Vision and Mission

GLOBAL CO2 INITIATIVE

VISION: Identify and pursue commercially sustainable approaches that reduce atmospheric CO_2 levels by 4Gt/year.

MISSION: Transform CO_2 into commercially successful products using an accelerating system-level process of *technology assessment, technology development, and commercialization,* accomplished through convening and downstream promotion in partnership with entities around the world.

Turning CO₂ into profitable products at UM GLOBAL CO₂ INITIATIVE







Flexible concrete

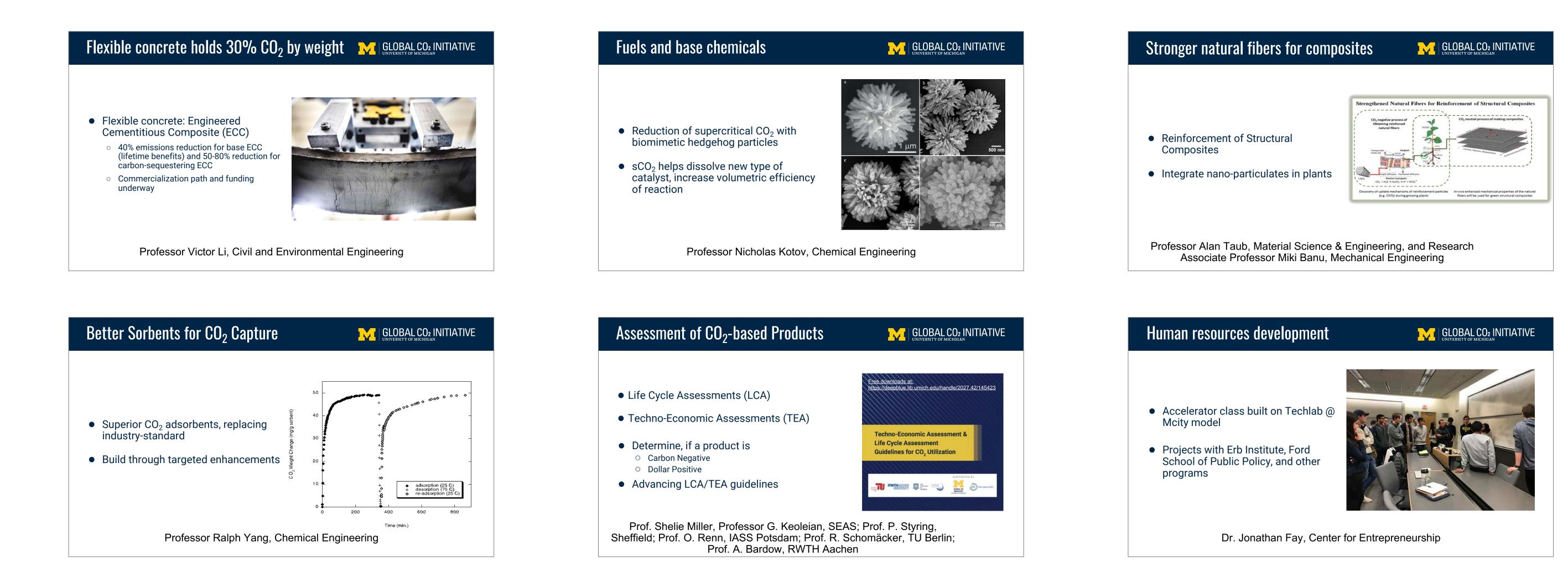


Architectural elements

Organization



Pillars of Activity	GLOBAL CO2 INITIATI UNIVERSITY OF MICHIGAN
 Global harmonization of Techno- Economic Assessment (TEA) and Life Cycle Assessment (LCA) for CO₂-based products 	<u>Free downloads at:</u> https://deepblue.lib.umich.edu/handle/2027.42/145423
 Market analysis of the prospects for CO₂- based products 	Techno-Economic Assessment & Life Cycle Assessment Guidelines for CO ₂ Utilization
 Funding and conducting research on CO₂- based products at all technology readiness levels and translation into the marketplace 	



Our Internal Team & Network	GLOBAL CO2 INITIATIVE
 College of Engineering (CoE) University of Michigan Energy Institute (UMEI) School of Environment and Sustainability (SEAS) 	Image: Sky Team
 Center for Sustainable Systems Graham Environmental Sustainability Institute (GESI) Erb Institute 	
UM Smart Infrastructure Finance	





- Business Engagement Center (BEC)
- Office of University Development (OUD)
- Ford School of Public Policy (SPP)
- College of Literature, Science, and the Arts (LSA)
- Taubman College of Architecture and Urban Planning (TCAUP)
- Institute for Social Research (ISR)
- University of Michigan Carbon Neutrality Commission



Coordinating efforts and exploring partnerships: Columbia University, Energy Futures Initiative, Carbon180, New Carbon Economy Consortium, Corporations, others

FOR MORE INFORMATION ON UPCOMING ANNOUNCEMENTS OR TO LEARN ABOUT OPPORTUNITIES TO PARTNER & COLLABORATE:

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Global CO2 Initiative

Join our growing global network as we develop and deploy critical carbon management technologies and solutions to meet the challenges and opportunities ahead. Volker Sick, Global CO₂ Initiative, Director Arthur F. Thurnau Professor, Mechanical Engineering, DTE Energy Professor of Advanced Energy Research, University of Michigan