PETER KILPATRICK is a professor of chemical and biomolecular engineering and the Matthew H. McCloskey Dean of Engineering at the University of Notre Dame. His research interests include surfactant and interfacial science, fluid microstructure, colloidal aggregates, phase equilibria, and bioseparations. He specializes in colloidal and interfacial science, with an emphasis on the colloidal and molecular properties of crude oil and on biological membranes. His work is leading to oil production and refining that is both more energy efficient and better for the environment. He is the author or co-author of more than 100 articles in scholarly journals such as ACS Applied Materials and Interfaces, Journal of Physical Chemistry B, Journal of Supercritical Fluids, Langmuir, and Soft Matter. Among his accomplishments, Kilpatrick served as founding director of the Biomanufacturing Training and Education Center, an institute dedicated to educating students about pilot-scale protein manufacturing, with the aim of providing exceptional training to the next generation of biomanufacturers. Kilpatrick teaches a course on technology and ethics and is deeply interested in how the humanities and engineering intersect.

Intellectual issue to be addressed: How can engineering contribute to a better world?