

Biographies

Jason Rauch received his M.E.Sc. from the Yale School of Forestry and Environmental Studies in 2006, after graduating from Brown University with a Sc.B. in Geology-Biology and a B.A. in Literatures in English. He has now begun studies at Yale for a Ph.D. under the tutelage of Professor Thomas Graedel. He plans to spatially model the combined technological and natural stocks and flows of the major metals utilized in human society.

Matthew Eckelman is a doctoral student in Environmental Engineering at Yale University. His dissertation research examines global models of energy use in waste management and recycling. Matthew received his B.A. in Physics, Math, and Theater from Amherst College. He has worked in government and the NGO sector in environmental design and manufacturing, and served in the Peace Corps in Nepal.

Robert Gordon is Professor of Geology and Geophysics at Yale University. His research interests have a wide range, including archaeometallurgy, laboratory analysis and interpretation of ancient and historical materials and artifacts, industrial ecology, technological cycles of metals, and mineral resources. His current teaching focuses on archaeology, archaeometallurgy, and natural resources and their sustainability.

The Center for Industrial Ecology (CIE) was established in September 1998 at the Yale School of Forestry & Environmental Studies to provide an organizational focus for research in industrial ecology. The Center brings together Yale staff, students, visiting scholars, and practitioners to develop new knowledge at the forefront of the field. Research is carried out in collaboration with other segments of the Yale community, with other academic institutions, and with international partners in Austria, China, Switzerland, and elsewhere. Faculty research interests include the theoretical basis of industrial ecology, the cycles of materials, technological change and the environment, eco-industrial urban development, industrial symbiosis, and product and producer policy issues.

Industrial Ecology is an emerging field that focuses on the twin goals of economic development and environmental quality. The concept requires that an industrial system be viewed not in isolation from its surrounding systems, but in concert with them. It is a systems view in which one seeks to optimize the total materials cycle—from virgin material, to finished material, to component, to product, to obsolete product, and to ultimate disposal. Factors to be optimized include resources, energy, and capital.

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