"Sea Change: A Paradigm Shift in Marine Science and What It Means for Management" presented by Dr. Aaron Hirsh of the University of Colorado for the Morrison Institute Winter Colloquium

Around the world, marine fish stocks have been exploited to the point of collapse: the most productive waters in the world are now nearly worthless; most large predatory fish populations have fallen below 10% of their former size; and many prized species are now commercially extinct. These massive impacts have cascaded through ocean ecosystems in unpredicted ways, precipitating a paradigm shift in marine science. The view of ocean ecology that emerges from this shift has important implications for our efforts to manage marine ecosystems.

Aaron Hirsh is chair of the Vermilion Sea Institute and a research associate in the Department of Ecology and Evolutionary Biology at the University of Colorado—Boulder. His essays have appeared in The New York Times, The Wall Street Journal, various literary journals, and The Best American Science Writing. His scientific work has been published in Science, Nature, PNAS, and a number of other journals. Hirsh was a founder of the biotechnology company InterCell and serves on the board of Roberts and Company Publishers. He lives in Boulder, Colorado.