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**CHERRY ANN MURRAY** is Professor of Physics and Director of Biosphere 2 Institute at the University of Arizona. Her current interests include policy, research, development, education, and innovation to sustain human civilization on future Earth. Dr. Murray served as the Director of the United States Department of Energy's Office of Science overseeing scientific research in the areas of advanced scientific computing, basic energy sciences, biological and environmental sciences, fusion energy sciences, high energy physics, and nuclear physics, as well as the management of ten national laboratories



**CHARLES SHANK** is Professor Emeritus of chemistry, physics, electrical engineering and computer sciences at the University of California, Berkeley. He served as Director of the Lawrence Berkeley National Laboratory. During his leadership, the lab emerged as a leader in supercomputing and joined with two other national labs to form the Joint Genome Institute, a major contributor to the human genome decoding. Prior to LBNL and Berkeley, Dr. Shank conducted research at Bell Labs, introducing the use of short laser pulses to the study of ultrafast events.