TROY CARTER is a Professor of Physics and the Director of the Plasma Science and Technology Institute at the University of California, Los Angeles. Prof. Carter is also the Director of the Basic Plasma Science Facility (BaPSF), a collaborative research facility for fundamental plasma science supported by DOE Fusion Energy Sciences and NSF. His research focuses on experimental studies of fundamental processes in magnetized plasmas and is motivated by current issues in magnetic confinement fusion energy research and in space and astrophysical plasmas including magnetic reconnection, turbulence and transport in magnetized plasmas, heating and current drive by plasma waves and the nonlinear physics of Alfvén waves. He currently serves on the DOE Office of Science's Fusion Energy Advisory Committee (FESAC). He was a co-recipient of the 2002 APS John Dawson Award for Excellence in Plasma Physics Research and is a Fellow of the APS. Prof. Carter received BS degrees in Physics and Nuclear Engineering from North Carolina State University in 1995 and a PhD in Astrophysical Sciences from Princeton University in 2001.