James Randerson

Chancellor's Professor Earth System Science at UC Irvine

Irvine, CA, US

James Randerson studies the global carbon cycle using remote sensing and in-situ measurements and different types of models.

Biography

Randerson studies the global carbon cycle using remote sensing and in-situ measurements and different types of models. Current research themes in his laboratory include climate-carbon cycle feedbacks, land use change, and the effects of fire on ecosystem function and atmospheric composition. He has conducted field work in Alaska and Siberia to assess the long-term impacts of fire on surface energy exchange and fluxes of carbon dioxide. In 2005 Randerson was the recipient of the James B. Macelwane Medal awarded by the American Geophysical Union for "significant contributions to the geophysical sciences by an outstanding young scientist." He received a Ph.D. in Biological Sciences (1998) and a B.S. in Chemistry (1992) from Stanford University. He conducted work as a postdoctoral scholar at University of California, Berkeley and University of Alaska. He is a Fellow of the American Geophysical Union and a member of the US National Academy of Sciences.

Areas of Expertise

Climate-Carbon Cycle Feedbacks, Forests, Wildfires, Climate, Plants

Affiliations

American Geophysical Union : Fellow, Ecological Society of America, American Association for the Advancement of Science, National Academy of Sciences of the United States

Education

Stanford University
PhD Biological Sciences

Stanford University
BS Chemistry

Accomplishments

Piers J. Sellers Global Environmental Change Mid-Career Award
2017 American Geophysical Union

NASA Group Achievement Award
2014
