

## Peter Fox

Professor and Tetherless World Research Constellation Chair  
Climate Variability and Solar-Terrestrial Physics  
Rensselaer Polytechnic Institute

[pfox@cs.rpi.edu](mailto:pfox@cs.rpi.edu)



### Biography and Research Areas

He joined the Tetherless World Constellation in 2008. Formerly, he was the Chief Computational Scientist at the High Altitude Observatory (HAO) of the National Center for Atmospheric Research (NCAR).

Fox's research specializes in the fields of solar and solar-terrestrial physics, computational and computer science, information technology, and grid-enabled, distributed semantic data frameworks. This research utilizes state-of-the-art modeling techniques, internet-based technologies, including the semantic web, and applies them to large-scale distributed scientific repositories addressing the full life-cycle of data and information within specific science and engineering disciplines as well as among disciplines.

Fox is currently PI for the Virtual Solar-Terrestrial Observatory (VSTO), the Semantically-Enabled Scientific Data Integration, and Semantic Provenance Capture in Data Ingest Systems projects. Since 1985 Fox has been bridging science and distributed data and information systems to support community activities utilizing use case driven design. Fox leads working groups for: Virtual Observatories for the Electronic Geophysical Year, semantic web for NASA technology infusion as well as the Earth Science Information Partnership federation, is chair of the AGU Special Focus Group on Earth and Space Science Informatics, is an associate editor for the [[Earth Science Informatics]] journal, is a member of the editorial board for [[Computers in Geosciences]] and lead editor for the AGU monograph Virtual Observatories in Geosciences currently in preparation. Fox is a member of the ad-hoc International Council for Science's Strategic Committee for Information and Data and chair of the International Union of Geodesy and Geophysics's Union Commission on Data and Information. Fox also currently serves as President for the not-for-profit Open source Project for a Network Data Access Protocol (OPeNDAP).