

Phil Rasch Biography



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Dr. Philip Rasch serves as the Chief Scientist for Climate Science at the Pacific Northwest National Laboratory (PNNL), a Department of Energy Office of Science research laboratory. In his advisory role, he provides leadership and direction to PNNL's Atmospheric Sciences and Global Change Division. Dr. Rasch provides oversight to more than 90 researchers who lead and contribute to programs within a number of government agencies and industry. These programs focus on climate, aerosol and cloud physics; global and regional scale modeling; integrated assessment of global change; and complex regional meteorology and chemistry.

Dr. Rasch is internationally known for his work in general circulation, atmospheric chemistry, and climate modeling. He is particularly interested in the role of aerosols and clouds in the atmosphere, and has worked on the processes that describe these components of the atmosphere, the computational details that are needed to describe them in computer models, and on their impact on climate. He has authored over 180 scientific papers and is a Fellow of the American Geophysical Union and the American Association for the Advancement of Science.

Rasch is a co-chair of Atmospheric Model component of the DOE's Energy Exascale Earth System Model, and is also on the council for that Project. He has served as co-chair of the Atmospheric Model Working Group activity of the Community Earth System Modeling Project, serving on its steering committee, and was a leader of the development team for the fifth version of the NCAR Community Atmosphere Model. Dr. Rasch has been a chair of the International Global Atmospheric Chemistry Program, and served in various editorial positions journals and on advisory panels for NSF, DOE, NASA and the AMS. He was a lead author for the chapter on Clouds and Aerosols for the Fifth Assessment of the Intergovernmental Panel on Climate Change, and a contributing author on other chapters and reports. He was also a lead author on the National Research Council special report on Geoengineering (2015).