

## 2014 Fellow, the American Geophysical Union



### Ed Brook

Professor,  
Geology and Geophysics

Brook has been named a 2014 Fellow of the American Geophysical Union (AGU). This year, 62 fellows representing less than 0.1 percent of overall membership were named for their scientific eminence, a major breakthrough, a major discovery, paradigm shifts and/or sustained scientific impact.

Brook is a paleoclimatologist who studies the Earth's ancient climates through examination of ice cores, specializing in the history of greenhouse gases. His studies have helped explain the processes that led to large-scale climate shifts throughout Earth's history. He has also advanced our understanding of how quickly climate can change. For example, during the last ice age climate in many parts of the world shifted from cold to warm conditions over just several decades, and sometimes faster. The mechanisms behind these abrupt shifts are only partly understood.

In 2011, he was part of a team that completed the excavation of a 10,928-foot ice core – the longest core ever drilled by United States scientists – with ice more than 67,000 years old. That year, Brook was also named one of 21 Google Science Communication Fellows in the United States, an initiative focused on improving national communication about climate change.

Brook is a Fellow of the American Association for the Advancement of Science and has authored nearly 100 peer-reviewed articles throughout his career. He earned his Ph.D. in chemical oceanography from the MIT/Woods Hole Oceanographic Institute in 1993.

Brook will be recognized on Dec. 17 at AGU's annual conference in San Francisco.



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*"Fellowship in AGU is a distinct honor because it comes from one's peers. I feel very privileged to be recognized in such an eminent group, but even more privileged to be able to pursue my scientific interests with fantastic colleagues here at OSU and around the world."*

*– Ed Brook*