

2007 AGU VGP FELLOWS

Congratulations to the 2007 Fellows of the American Geophysical Union (Volcanology, Geochemistry, and Petrology Section)!



SUSAN BRANTLEY

For her profound contributions to environmental geochemistry, her innovation and leadership in developing new initiatives, and her major impact on national geoscience education.



RODNEY C. EWING

For his many extraordinary and fundamental contributions to materials science and mineralogy that have innovative applications to nuclear waste management.



THOMAS H. HEATON

For contributions to seismology, especially in the areas of wave propagation, and earthquake source physics, and to a better understanding of earthquake hazards.



BERNARD MARTY

For outstanding contributions to the understanding of the origins of both terrestrial and extraterrestrial volatiles and their use in the interpretation of planetary-scale processes.



THOMAS F. PEDERSEN

For his insightful studies of marine sediments to understand how oceanographic conditions affect, and are affected by, changes in Earth's climate.



DAVID POLLARD

For his unsurpassed blending of field observations and mechanical modeling.



GEORGES POUPINET

For pioneering the use of earthquake doublets and for elevating the level of solid-Earth geophysics in France.



JOSEPH R. SMYTH

For his outstanding contributions to the mineral physics of the Earth and for fundamentally changing our perception of the role of water in the Earth's deep interior.



FRANK SPEAR

For his contributions to understanding the dynamic character of metamorphism and orogeny through unified field, analytical, and numerical studies.



JOHN W. VALLEY

For contributions to petrology and geochemistry, for discoveries regarding the geologic evolution of the early Earth, and for the development of analytical methods on which those discoveries are based.

HELMHOLTZ-HUMBOLDT RESEARCH AWARD TO HOLLY STEIN



Holly Stein near the village of Os in Norway

Colorado State University Senior Research Scientist Holly Stein will receive the prestigious Helmholtz-Humboldt Research Award for her groundbreaking research in ore deposit geology and geochemistry. Stein is founder and director of the AIRIE Program (Applied Isotope Research for Industry and the Environment), Department of Geosciences, a leading research group in Re-Os geochronology and tracer studies. Re-Os dating contributes critical information for understanding metallogenesis and the temporal relationship of ore deposits to geologic, metamorphic, and tectonic processes. In particular, AIRIE developed the technology to

date molybdenite. Stein draws on her experience in economic geology to contribute new insights and solve problems in other geoscience disciplines.

Recently, the AIRIE Program has turned to Re-Os dating of syn-sedimentary sulfides and organic material in black shales and migrated hydrocarbons, with applications to petroleum exploration. The work is backed by \$2.3 million from the Norwegian Research Council and petroleum industry (Eni Norge, Statoil). The project will be carried out under the auspices of the Norwegian Geological Survey, where Stein has a 50% position, Bernard Bingen and Judith Hannah are co-investigators.

The Helmholtz Association and Alexander von Humboldt Foundation grant up to six research awards annually to internationally recognized scientists. The award categories cover all disciplines of science, including energy, Earth and environment, health, technology, structure of matter, transport, and space. Nominations for the awards are made by members of the Helmholtz Association National Research Center in Germany. Awardees are scientists whose discoveries, theories, and findings have a strong influence on the immediate and broader disciplines beyond their specific research area.

Stein will receive 50,000 euros and attend a reception in Berlin hosted by the president of Germany. She will have a formal affiliation with the GeoForschungsZentrum in Potsdam, where she will work primarily with Rolf Romer on Sn-W-Mo-U metallogenesis in the renowned Erzgebirge. Stein will deliver lectures at several universities in Germany.

Stein received her BS from Western Illinois University and later received that institution Outstanding Woman Alumna Award. She received her MS and PhD from the University of North Carolina at Chapel Hill. She has been active in geologic societies and on editorial boards. Stein received the 2005 Silver Medal from the Society of Economic Geologists for excellence and original work in the geology of mineral deposits. In 2000, she received a Fulbright Research Fellowship, and in 1992 she received a Gilbert Fellowship from the USGS to work with Re-Os chemist John W. Morgan. At that time, she envisioned the broader application of Re-Os geochemistry to the understanding of metallogenesis and continental crustal processes.

TRIPLE POINT (cont'd from page 229)

In science, by contrast, the dramatic home run changes the world. Wilhelm von Röntgen discovered X-rays in 1895 and thereby opened the atomic universe to human inspection. James Watson and Francis Crick published the structure of DNA in 1953, and that one paper has fueled a revolution in molecular biology that continues to this day. The stature of these researchers in the scientific pantheon is assured by these single acts of creation because the machinery that drives a field of science can be wholly re-invented when an individual insight upends our primary assumptions.

None of which is meant to denigrate those with lofty h-indices. A value of 40 implies a remarkable production of more than one high-impact paper per year over many decades. But if your papers are struggling to find an appreciative audience, keep aiming for the far wall. You just might snag an idea hanging on the outside corner and knock our current reality out of the ballpark.

Peter J. Heaney
Penn State University