

Meet the Authors



Abdesselam Abdelouas

is an assistant professor at the École des Mines de Nantes (France). He received a PhD in geochemistry from Louis Pasteur Université, Strasbourg (France). His PhD work focused on the

corrosion of natural and nuclear glasses in salt solutions. He then joined the University of New Mexico as a postdoc and a research scientist, where he worked on nitrate and uranium bioremediation. In 2004 he completed his *habilitation* in radiochemistry at the Université de Nantes. His recent areas of interest include the biogeochemistry of radionuclides, such as technetium, iodine, and selenium, and also the effects of α , β , and γ radiations on nuclear materials, including glasses and crystalline ceramics, under aqueous conditions.



Jordi Bruno was born in Barcelona, Spain, and received his MS in analytical chemistry at the Autonomous University of Barcelona in 1977. He did his PhD in inorganic chemistry, studying the

thermodynamics and structure of Be(II) hydroxy-carbonate complexes at the Royal Institute of Technology of Stockholm (KTH), Sweden, with Prof. Ingmar Grenthe. In 1986–87 he obtained a post-doctoral position with Prof. Werner Stumm at EAWAG-ETH, Switzerland. In 1983, he had already started working on the chemistry and geochemistry of actinides, with particular emphasis on the processes controlling the stability of spent fuel under geological disposal conditions. At present he is international director of Enviro Ltd, managing director of Enviro Spain, and head of the Enresa-Enviro Sustainability and Waste Management Chair at the Technical University of Catalonia (UPC) in Barcelona, Spain.



Peter C. Burns is professor of mineralogy and chair of the Department of Civil Engineering and Geological Sciences at the University of Notre Dame. He received a BS in geology from the University of New

Brunswick, an MS from the University of Western Ontario, and a PhD from the University of Manitoba. His research interests include the structure, stability, and occurrences of low-temperature minerals, especially those containing essential uranium. He also studies the solid-state and solution chemistry of neptunium and plutonium, and factors that impact the mobility of these elements in the environment.



Rodney C. Ewing is the Donald R. Peacor Collegiate Professor and chair of the Department of Geological Sciences at the University of Michigan. He is also a professor in the Departments of Nuclear Engineering &

Radiological Sciences and Materials Science & Engineering. His research focuses on radiation effects in minerals, ion beam modification of materials, and the crystal chemistry of actinide minerals and materials. He has written extensively on issues related to nuclear waste management and is a co-editor of two volumes on this subject: *Radioactive Waste Forms for the Future* (1988) and *Uncertainty Underground* (2006). Rod is a past-president of the Mineralogical Society of America and the International Union of Materials Research Societies and currently serves on the Nuclear and Radiation Studies Board of the National Research Council.



Bernd Grambow

graduated from the Freie Universität Berlin in chemistry. He is a full professor in radiochemistry at the École des Mines de Nantes. After working for one year at Pacific North-

west National Laboratory, ten years at Hahn-Maitner Institut Berlin, and eight years at INE-FZ-Karlsruhe, Germany, he is currently head of the radiochemistry laboratory of SUBATECH, a mixed research unit in Nantes, France, operated by the École des Mines de Nantes, the IN2P3, and the Université de Nantes. He is coordinator of various European research projects in the EURATOM programme. His main research interests are in nuclear waste form alteration kinetics, the migration of radionuclides in the geosphere, actinide and fission product geochemistry and thermodynamics, and the development of a methodology for long-term performance predictions.



Amanda L. Klingensmith is a graduate student in environmental mineralogy and actinide chemistry at the University of Notre Dame. She received her BS from Miami University of

Ohio in 2002. Her research focus is the experimental investigation of the incorporation of Np(V) into the structure of uranyl minerals in the context of the performance of a geologic repository for nuclear waste.



Gregory R. Lumpkin

was born in Richmond, Virginia, and became interested in geology and mineralogy at a young age, visiting many classic mineral deposits in the eastern USA and Canada.

He obtained BSc and MSc degrees in geological sciences at Virginia Tech, then worked in the Physics Department at the University of California, Berkeley. Thereafter, he obtained a PhD in geology at the University of New Mexico and went on to work at the Australian Nuclear Science and Technology Organisation as a materials scientist. He was employed by the University of Cambridge for four years, where he worked on the solid-state chemistry and physics of high-temperature oxides, prior to moving back to Australia this year.

Cont'd from page 327

SORRY, LEVI, BUT THANKS FOR THE MEMORIES: AN ELEGY FOR A HISTORIC MINERAL COLLECTION

to make them understand that old collections contain specimens that are unique, that future directions of science are unpredictable and may hinge on the accessibility of specific materials, and that once these trusts are in private hands they no longer are objects of science.

On December 3, Penn State will be bidding online for one or two specimens from the Levi Smith suite as mementos of the collection that once graced the best part of our museum. Wish us luck.

Peter J. Heaney

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