



*Updates on friends and colleagues in the materials community*

### Rath and Spaepen Elected to U.S. National Academy of Engineering

In February, the U.S. National Academy of Engineering announced the election of 65 new members. Election to the academy is among the highest professional distinctions accorded to an engineer, and this year's class included two TMS members: Bhakta B. Rath and Frans Spaepen.

Academy membership honors those who have made outstanding contributions to "engineering research, practice, or education, including, where appropriate, significant contributions to the engineering literature" and to the "pioneering of new and developing fields of technology, making major advancements in traditional fields of engineering, or developing/implementing innovative approaches to engineering education."

Rath was elected to the academy "for leadership in advancing materials research and technology to support national security." Rath is head of the Materials Science and Component Technology Directorate and associate director of research at the U.S. Naval Research



Laboratory in Washington, D.C. He joined TMS in 1961 and was named a TMS fellow, the highest honor bestowed by the society, in 1992. Later this year, Rath will be awarded the 2008 Acta Materialia, Inc. J. Herbert Holloman Award at the Materials Science & Technology 2008 (MS&T '08) conference.

Spaepen was recognized by the academy "for contributions to the understanding of structures of melts, amorphous metals, and semiconductors." Spaepen is John C. and Helen F. Franklin Professor of Applied Physics at the School of Engineering and Applied Sciences at Harvard University in Cambridge, Massachusetts. Spaepen joined TMS in 1984 and was named a TMS fellow in 1996. According to Harvard University, Spaepen is one of the most active scientific collaborators at Harvard, has led numerous academic societies, and is currently co-editor of *Solid State Physics* and principal editor of the *Journal of Materials Research*.



succeeds Tom Barton, who served as Ames Laboratory's director from 1988 to February 2007 when he returned to teaching in Iowa State's Department of Chemistry.

"Dr. King will be an outstanding addition to the Ames Laboratory, providing leadership that will help advance the laboratory's reputation as a worldwide leader in materials and related research," said Gregory Geoffroy, Iowa State University president.

King holds a bachelor's degree in physical metallurgy from the University of Sheffield, England, and a doctorate in metallurgy and the science of materials from the University of Oxford in England.

### King Named New Director of Ames Laboratory

On January 1, Alexander King took over the role of director of the U.S. Department of Energy's Ames Laboratory at Iowa State University in Ames, Iowa. Prior to this, King was professor and head of the School of Materials Engineering at Purdue University in West Lafayette, Indiana. He has been a member of TMS since 1980.



King was selected for the position by a 14-member search committee following private and public interviews on the Iowa State campus last fall. He

### GRAY JOINS NATIONAL MATERIALS ADVISORY BOARD

George T. (Rusty) Gray III, a laboratory fellow at Los Alamos National Laboratory, has been selected to serve on the National Materials Advisory Board (NMAB) of the U.S. National Academies. Gray has been a member of TMS since 1986 and serves on the TMS Board of Directors as director and chair of publications.



Made up of individuals from industry, academia, and national laboratories, the goal of the NMAB is to provide objective, independent, and informed scientific, technological, and policy assessments of materials, processes, and applications for use by U.S. industry, government agencies, and universities.

At Los Alamos, Gray works in the dynamic properties and constitutive modeling team within the Materials Science Division. There, he has directed a research team working on investigations of the dynamic response of materials, and he conducts fundamental, applied, and focused programmatic research on materials and structures, in particular in response to high-strain-rate and shock deformation.

Gray's research is focused on experimental and modeling studies of substructure evolution and mechanical response of materials. These constitutive and damage models are used in engineering computer codes to support large-scale finite element modeling simulations of structures ranging from national defense, industry, foreign object damage, and manufacturing.

Gray holds B.S. and M.S. degrees in metallurgical engineering from the South Dakota School of Mines and Technology in Rapid City, South Dakota, and a Ph.D. in metallurgical engineering from Carnegie Mellon University in Pittsburgh, Pennsylvania.