LYNN A. BOATNER NEW FELLOW OF THE MATERIALS RESEARCH SOCIETY

Lynn A. Boatner, an adjunct professor in the University of Tennessee Department of Materials Science and Engineering, has been named a Fellow of the Materials Research Society. Boatner's citation for this recognition reads: "For pioneering, sustained, and innovative contributions to the fundamental understanding, processing and applications of single crystals, nanocomposites, rare-earth and actinide compounds, and scintillators." Lynn A. Boatner, an Oak Ridge National Laboratory Corporate Fellow, is the director of the ORNL Center for Radiation Detection Materials and Systems, and he leads the Synthesis and Properties of Novel Materials Group in the ORNL Materials Science and Technology Division. He holds a PhD degree in physics from Vanderbilt University. Boatner is a Fellow of the American Physical Society, the American Ceramic Society, the American Association for the Advancement of Science, the Materials Research Society, the Mineralogical Society of America, ASM International, and the Institute of Materials, Minerals, and Mining of the United Kingdom. He is the recipient of three IR-100 Awards (1982, 1985, 1996), the Frank H. Spedding Award for Excellence in Rare Earth Research, the Jesse W. Beams Prize of the American Physical Society Southeastern Section, the Elegant Work Prize of the Institute of Materials, Minerals, and Mining of the United Kingdom, the Francis F. Lucas Award of the American Society for Metals International, The Pierre Jacquet Gold Medal Award of the International Metallographic Society, the AACG Crystal Growth Award of the American Association for Crystal Growth, a Federal Laboratory Consortium Award for Excellence in Technology Transfer, and a U.S. Department of Defense Innovative Technology Award. He is a member of the Academy of Sciences of Mexico and has received a DOE Award for Significant Implications for Energy Technology in Solid State Physics. Boatner recently served as the chair of the Division of Materials Physics of the American Physical Society, and he is the founder and curator of the Single Crystal Growth Collection and Exhibit of the American Association for Crystal Growth. He has published over 530 scientific articles and holds 14 U.S. patents.

HIGH SCHOOL MINERALOGIST WINS INTEL TALENT SEARCH AWARD

Gabriela Farfan, a senior student of Madison West High School, won 10th place in the Intel Talent Search based on her Oregon sunstone research, carried out in the Department of Geology and Geophysics, University of Wisconsin. Under the guidance of Prof. Huifang Xu, Gabriela used optical microscopes, XRD, and SEM to identify micro- and nanoprecipitates of native copper and closely associated Fe-bearing enstatite in gem-quality labradorite phenocrysts from Lake Country, Oregon. She proposed a relationship between observed color changes in the sunstones and the crystallographic orientations of the precipitates inside the host crystals. Gabriela also presented her research results at the 2008 Goldschmidt Conference in Vancouver, Canada.

The Intel Science Talent Search, a program of Society for Science & the Public (SSP), is an annual competition that identifies the nation's most promising scientists of the future and celebrates the best and brightest young minds as they compete for one of the most esteemed honors bestowed on high school seniors in the United States.

FRANK HAWTHORNE INDUCTED INTO RUSSIAN ACADEMY OF SCIENCES

Frank Hawthorne (Department of Geological Sciences, University of Manitoba) was inducted into the Russian Academy of Sciences as a Foreign Member at the annual meeting of the Division of Earth Sciences, Russian Academy of Sciences, on December 15, 2008. He was nominated by the Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry, RAS (Academician Nikolai Bortnikov, Director). Academician Nikolai Laverov, Vice-President of the Russian Academy of Sciences, made the presentation.

Frank Hawthorne began collaborative work with Russian scientists in the late 1990s, and his work with members of the Russian scientific community in Moscow has gradually expanded since that time. His initial collaboration with Professors Vadim Kazansky and Konstantin Lobanov, IGEM RAS, on the rocks of the Kola Superdeep Borehole, was promoted by Dr. Elena Sokolova (University of Manitoba, IGEM RAS). His work is now focused on the crystal chemistry of the constituent amphiboles and micas and their relations with temperature and pressure of equilibration and variations in lithogeochemistry. Frank Hawthorne and Elena Sokolova work extensively with Leonid Pautov, Atali Agakhanov, and Vladimir Karpenko of the Fersman Mineralogical Museum, RAS, Moscow, on the minerals of the Dara-i-Pioz alkaline massif in northern Tajikistan, and with Professor Alexander Khomyakov, Institute of Mineralogy, Geochemistry and Crystal Chemistry of Rare Elements, Moscow, on the minerals of the Khibina and Lovozero massifs (Kola Peninsula).