



Press Release

Friday, August 13, 2010

Murli H. Manghnani named as Fellow in The American Ceramics Society

Honolulu, HI –Murli H. Manghnani has been named as a Fellow in The American Ceramics Society (ACerS). Manghnani is a Professor in the Hawaii Institute of Geophysics and Planetology (HIGP), School of Ocean and Earth Science and Technology, at the University of Hawaii of Manoa. He also serves as Director of the High Pressure Mineral Physics Laboratory in HIGP. He received his M.S. in Applied Geology from the Indian School of Mines, and his Ph. D in Geology from the University of Montana. After a year at the University of Wisconsin as a post-doctoral fellow in Geophysics, he joined the University of Hawaii as faculty member, where he has been engaged in research and teaching in high-pressure mineral physics and materials science.



He is a long-time member of ACerS, Fellow of the Mineralogical Society of America, Life Fellow of the Indian Geophysical Union, and has received a Guggenheim Fellowship award for synchrotron radiation research at high pressure and temperature, and other distinguished awards. He has served as Program Director of the Experimental and Theoretical Geophysics Program at NSF, has organized several international symposia in High Pressure Research in Earth Sciences, and is a co-editor of 8 monographs and books in the field and materials characterization.

Throughout his distinguished career at UH, he with his undergraduate and graduate students and post-doctoral researchers, has been active nationally and internationally in interdisciplinary aspects of high pressure-temperature research, involving the elasticity, equation of state, atomic structure, phase transitions, thermal and transport properties, and microstructure of materials, utilizing the state-of-art techniques. Some of these techniques include ultrasonic interferometry, synchrotron x-ray diffraction and absorption, Raman and Brillouin scattering, optical and electrical resistivity measurements, and scanning acoustic microscopy. Together with his students and collaborators, his research work (incorporated in 200+ published papers) has focused on gaining fundamental understanding of the physico-chemical and thermodynamic properties and the composition-structure-property systematic in Earth materials (hydrous mantle minerals, core materials); ceramics (oxides, silicates and their polymorphs); thin films of hard materials; silicate glasses and melts; metals (Ti, Zr, Hf, V, Cr, Mo, and their alloys) and the Fe-Ni-S and Fe-Ni-Si melts under in-situ high pressure/temperature environments. His contributions have had a profound impact in high-pressure mineral physics, armor ceramics, silicate glasses and melts.

For more information, please see <http://ceramics.org/acers-community/award-winners-resources/?bio=15918>

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