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Scientific Evening Talk

Tuesday, May 27th, 2014, 6:30 p.m.
Magnus-Haus Berlin, Am Kupfergraben 7, 10117 Berlin

Ward Plummer, Ph.D, Professor of Physics
Louisiana State University, Baton Rouge (USA)

Materials for the 21st Century: A Revolutionary, Not an Evolutionary, Approach

The discussion will be chaired by
Prof. Dr. Wolfgang Eberhardt
Scientific Director of the Magnus-Haus Berlin

'Nachsitzung' with food and drinks in the 'Remise' sponsored by the WE-Heraeus-Foundation.

To attend the Scientific Evening Talk please register:
http://www.dpg-physik.de/dpg/magnus/formulare/formular_2014-05-14/anmeldung-2014-05-27.html

Person
Ward Plummer is a world renowned scholar in materials sciences with a BA in Math and Physics from Lewis and Clark College, Portland, Oregon (1962) and a PhD in Physics from Cornell University (1967). Following a staff appointment at NBS he became a Professor of Physics at the University of Pennsylvania in 1973. In 1983 he received the Davisson Germer Prize of the APS. In 1993 he accepted a joint appointment as professor at the University of Tennessee, Knoxville, and Oak Ridge Nat.-Lab. In 2001 he received the Medard W. Welch Award from the AVS. In 2009 he joined the faculty at LSU in Baton Rouge. He is the author of more than 370 papers and was elected a member of the National Academy of Sciences (2006). He has mentored more than 85 young scholars as graduate students and postdoctoral fellows.

Abstract:
The 20th century witnessed a dramatic change in our standard of living, in many cases due to significant advancement in materials and materials design. Inhabitants of the 21st century will undoubtedly see even more startling discoveries and applications of materials, changing our way of life. This lecture will focus on the societal pressure in the 21st century for new materials, driven by our need for energy, preserving our environment, and competing in a global economy – the Perfect Storm. The time frame associated with this storm requires a revolutionary – not evolutionary approach to the design and discovery of new materials. A wonderful crystal ball will be used to forecast novel materials development in the 21st century, related to environmentally friendly sources of energy or ways to reduce our waste of energy.