Studying the Future of Nanotechnology: Establishing Empirical and Conceptual Foundations

2006-07 CNS-ASU SPEAKER SERIES

All Presentations will be in the Biodesign Auditorium, 11 a.m. – 12:30 p.m.

15 September. "Thinking Longer Term about Technology," Christine Peterson. Peterson is a founder of Foresight Nanotech Institute, the leading nanotech public interest group in the US. She writes, lectures and briefs the media on coming powerful technologies, especially nanotechnology. She is Vice President of Public Policy at Foresight, whose mission is to ensure the beneficial implementation of nanotechnology. Foresight educates the public, technical community and policymakers on nano-technology and its long-term effects.

6 October. **"Nano-ethics through the Writing of Science Fiction." Rosalyn Berne.** Dr. Berne believes that the use of science fiction writing is potentially a powerful and illuminating pedagogical tool for engaging the multiple dimensions of nanotechnology ethics. In this talk she will explain the theoretical basis for that assertion, and describe the Nano-Science Fiction Writing Project she now directs, to engage global participation in the creative formulation and exploration of nanotechnology ethics. She is the author of *Nanotalk* (2005).

17 November. Griffith A. Kundahl, Feinstein Kean Healthcare/Ogilvy PR Worldwide (Vice President, Convergence Group) and NanoBusiness Alliance (Board of Directors; former General Counsel and Vice President Western Region). Kundahl provides nanotechnology strategic counsel and communications services. He is co-author of *The Handbook of Nanotechnology Business, Policy, and Intellectual Property Law* (Wiley & Sons, 2004) and is an Associate Editor of *Nanotechnology Law & Business*.

15 December. Meyya Meyyappan. Meyyappan is NASA's Director and Senior Scientist at Ames' Center for Nanotechnology in Moffett Field, CA. He is in charge of all the technical aspects of his team's work, providing vision and determining what kind of projects to work on. As the senior scientist, he is also involved in technical work. **A**reas of focus include nanoelectronics and computing, developing nanotechnology-based sensors and detectors, and utilizing nanotechnology in gene sequencing. His project is primarily on nanoscale materials, primarily carbon nanotubes.

19 January, 2007. **Ulrich Fiedeler.** Fiedeler is a member of the Institute for Technology Assessment and Systems Analysis (ITAS). He has studied the development of nanotechnology from a variety of prospective approaches including Vision Assessment and Roadmapping as a tool for Technology Assessment. Areas of focus include the role of Nanotechnology in Chemical Substitution, Social Issues of Neuronal Implants, and Naturalness and Neuronal Implants.

23 February 2007. Arie Rip. Rip is NanoNed Technology Assessment program coordinator. He is a chemist who has always had broader interests in philosophy and in the role of science and technology in society. He specialized in the social aspects of science and technology assessment in Leiden University then worked on the dynamics of science and technology at the University of Amsterdam before joining University of Twente in 1987.

30 March, 2007. Ahmad Soueid. Soueid is Principal/SVP of HDR Architecture, Inc. and focuses exclusively on the design and construction of advanced technology facilities. He is an internationally known leader in the design of nanotechnology facilities, such as the NIST Advanced Measurement Laboratory, Birck Nanotechnology Center at Purdue, and Center for Functional Nanomaterials at Brookhaven National Lab. Soueid also served as nanotechnology facilities advisor to Centro Nacional de Metrología in Mexico and National Physical Laboratory (UK) and was co-chair of the Buildings for Advanced Technology Workshop I and II (January 2003 and 2004) sponsored by Arizona State University.