

**TUESDAY**

**TPM-C – SPECIAL SESSION: NANOTECHNOLOGY AND RADIATION PROTECTION**

**Tuesday, 17 July 2018**

**Room 4**

**2:30 – 5:00 p.m.**

**Chair(s): Mark Hoover**

**TPM-C.1 NANOTECHNOLOGY AND RADIATION PROTECTION: HPS NANOTECHNOLOGY SECTION ACTIVITIES AND OPPORTUNITIES** *Hoover MD, Marceau-Day ML, Cash LJ, Davis J, Hay T, Holiday S, Walker LS II; National Institute for Occupational Safety and Health; LSU Scientist Emerita; Los Alamos National Laboratory; Oak Ridge Associated Universities; Washington State Department of Health; Nuclear Regulatory Commission; Consultant*

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This panel discussion in the special technical session on Nanotechnology and Radiation Protection will provide HPS members with the opportunity to hear key updates and participate in open discussions with members of the HPS Nanotechnology Section and the audience. The key updates and discussions will focus on important emerging issues, activities, and opportunities to make it easier for everyone to get the right things done right to build and sustain leaders, cultures, and systems with all the tools, training, and experience needed to advance nanotechnology for safety, health, well-being, and productivity. The format is geared to generate a lively discussion of the current topics of Nanotechnology, advanced materials, and advanced manufacturing and how they impinge on the practice of Health Physics. The session supports the mission of the HPS Nanotechnology Section to ensure our Society's role as the source of expertise in radiation safety for existing and emerging nanotechnologies by providing relevant and reliable information about radiation safety to

health protection professionals, developers and users of nanomaterials and nano-enabled products, government officials, the media, and the public. Content of the session will include highlights of how the rapid development of nanotechnology is spanning a wide breadth of scientific disciplines for many technical, medical, nano-4-environmental remediation, and other applications. Opportunities where the HPS and its members can and are providing important local, national and global leadership on nanotechnology-related issues include providing input and support to HPS sections, HPS committees, and local chapters; fostering education and training programs for members and partner organizations; and collaboration with key partners such as DOE, EPA, ICRP, IAEA, NCRP, NIOSH, NIST, NRC, OSHA, and the National Nanotechnology Coordination Office. This will be the 10th consecutive annual meeting nanotechnology special session.

**TPM-C.2 CHALLENGES REGULATING RADIOACTIVE NANOPARTICLES FROM A REGULATOR'S POINT OF VIEW** *Hay TR, Washington Department of Health Radiation Protection*

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The field of nanotechnology is growing and with that growth comes new regulatory challenges for regulators to be prepared to oversee the use of radioactive nanoparticles in the laboratory, medical, and industrial settings. The challenges for a regulator include lack of knowledge about radioactive nanoparticles, lack of experience working with radioactive nanoparticles, and a lack of guidance regarding radioactive nanoparticle licensing and regulation. It is important for regulators to identify the potential regulatory shortfalls so they can be capable of providing adequate oversight for the safe use and handling of radioactive nanoparticles.