

Engineering at MIT. Since 2011, he has been serving as co-director of the MIT Computation for Design and Optimization Program. In 2004, Buehler received the MRS Graduate Student Gold Award. In 2011, he received numerous honors,

including the Thomas J.R. Hughes Young Investigator Award, the Alfred Noble Prize, and the Leonardo Da Vinci Award. Buehler serves as editor or on the editorial board of numerous publications. He serves MRS in a number of

capacities, including judge and chair of the MRS Graduate Student Award subcommittee, as a volunteer writer for *MRS Bulletin*, and as a lead organizer of several symposia at MRS Meetings.



## John Pendry to give plenary address on metamaterials at 2012 MRS Spring Meeting

**J**ohn Pendry of Imperial College London will give the plenary address at the 2012 Materials Research Society Spring Meeting to be held April 9–13 in San Francisco. The plenary session will be held Wednesday, April 11, at 6:30 p.m. in the San Francisco Marriott Marquis.

In his presentation, Pendry will describe recent developments and future prospects in the area of metamaterials. The properties of a metamaterial depend on its interatomic structure rather than on the composition of the atoms themselves. In collaboration with a team of scientists at Duke University, Pendry has devel-

oped the concept of “transformation optics,” which prescribes how electromagnetic lines of force can be manipulated at will. This enabled a proposed recipe for a cloak that can hide an arbitrary object from electromagnetic fields, and has also many applications at optical frequencies to the study of plasmonic systems.



At the Imperial College London, Pendry has been head of the Condensed Matter Theory Group since 1981. He began his career in the Cavendish Laboratory, Cambridge, followed by six years at the Daresbury Laboratory where he headed the theoretical group. Among his honors are the Royal Medal from the Royal Society of London and the European Union’s Descartes Prize. Pendry received his PhD degree from the University of Cambridge.



## Thomas P. Russell to present Kavli lecture on nanoscience at 2012 MRS Spring Meeting

**T**homas P. Russell, the Silvio O. Conte Distinguished Professor of Polymer Science and Engineering at the University of Massachusetts, Amherst, has been selected for the Fred Kavli Distinguished Lectureship in Nanoscience. He will give a presentation at the 2012 Materials Research Society Spring Meeting to be held April 9–13

in San Francisco. The award recognizes both his pioneering research on polymer/nanoparticle composites and block copolymer thin films and his service to the materials community.

Russell has pioneered the analysis of polymeric thin films and the interfacial behavior of polymers and nanoparticles by neutron scattering and hard and soft

small-angle x-ray scattering and diffraction. He has also focused on understanding and improving nanopatterning through self-assembly in block copolymer thin films. His achievements in the vertical alignment of block copolymer microdomains and large-area homogeneous nanopatterns are major milestones in block copolymer self-assembly.

Among Russell’s honors is election to the National Academy of Engineering, and he is a fellow of the American Physical Society, the American Association for the Advancement of Science, the Neutron Scattering Society of America, the Polymer Division in the American Chemical Society, and the Materials Research Society. He also served on the MRS Board of Directors. Russell received his PhD degree from the University of Massachusetts, Amherst.

