



Chen honored as Fellow of The Optical Society

December 15, 2017

The board of directors of The Optical Society (OSA) has elected Hou-Tong Chen of the Laboratory's Center for Integrated Nanotechnologies as a Fellow. The OSA cited Chen for "seminal contributions to the field of metamaterials, including active metamaterials and the realization of novel electromagnetic structures at terahertz frequencies."

As a fellow, Chen joins the ranks of members who have served OSA and the optics and photonics community with distinction. The number of Fellows is limited to be no more than 10 percent of the total OSA membership, and the number elected each year is limited to approximately 0.5 percent of the current membership total.

Chen's achievements

Chen earned a Ph.D. in physics from Rensselaer Polytechnic Institute and joined the Laboratory in 2005. He investigates metamaterials, particularly the development of advanced metamaterial structures and integration of functional materials for efficient control and manipulation of electromagnetic waves ranging from microwave to visible light.

Chen works closely with the Center for Integrated Nanotechnologies (CINT) users to develop new capabilities, such as ultrafast terahertz spectroscopy and near-field microscopy, which serve the user community. CINT is a DOE Office of Basic Energy Sciences user facility jointly operated by Sandia National Laboratories and Los Alamos National Laboratory.

Chen is an international leader in the field of metamaterials. The journals *Nature*, *Science*, *Nature Photonics*, *Physical Review Letters* and *Optics Express* have published his discoveries. He is an American Physical Society Fellow, holds two patents and has received the Laboratory's Fellows Prize for Outstanding Research.

About The Optical Society

The OSA is a professional organization for scientists, engineers, students and business leaders who make discoveries, create applications and accelerate achievements in the field of light. The society aims to promote the generation, application, and archiving of knowledge in optics and photonics.

For more science news, see the [Science Highlights](#).

Caption for image below: Hou-Tong Chen conducts experiments in his laboratory.

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