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How the Metalens Will Transform Lens Technology and Everyday Devices

Wednesday, May 09, 2018 1:00 PM - 2:00 PM EDT

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About This Webinar

Presented by Federico Capasso, considered the father of the quantum cascade laser, this webinar will discuss monochromatic and achromatic metalens design and applications and the differences between metalens and conventional lens technology.

Metalenses - ultrathin planar lenses - represent a revolutionary step in lens design and fabrication. Metalenses have the potential to replace bulky refractive lenses using the same fabrication technology, stepper lithography, as computer chips. In this webinar you will be introduced to the Capasso Group's work in the area of metalens design and fabrication, including milestones in the group's research and applications on which the group is currently working.

The webinar will discuss metalenses' advantages over conventional lens technology, including aberration control, dispersion engineering, ease of system integration and optical alignment - and last but not least, the metalens' multifunctionality. Capasso will discuss applications for flat lens technology that his group is currently working on, including a collaboration with Massachusetts General Hospital, and the Capasso Group's future plans for this game-changing technology.

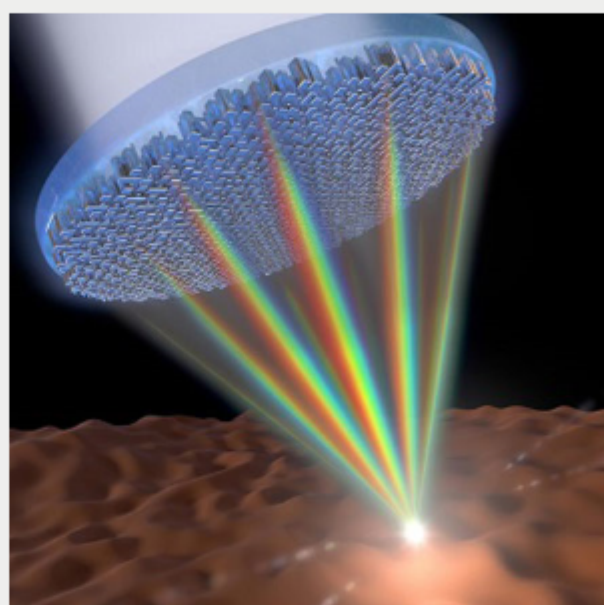
About the presenter:

Federico Capasso is the Robert Wallace Professor of Applied Physics and Vinton Hayes Senior Research Fellow in Electrical Engineering at Harvard University, which he joined in 2003 after 27 years at Bell Labs, where his career advanced from postdoctoral fellow to vice president for physical research.

He is a recipient of the 2016 International Balzan Prize for his work in the quantum design of new materials, which led to the realization of the Quantum Cascade Laser, and for his major contributions in plasmonics and metamaterials. His other awards include the IEEE Edison Medal, the American Physical Society Arthur Schawlow Prize in Laser Science, the King Faisal Prize, the SPIE Gold Medal, the AAAS Rumford Prize, the IEEE Sarnoff Award, the Materials Research Society Medal, the Franklin Institute Wetherill Medal, the European Physical Society Quantum Electronics Prize, the Rank Prize in Optoelectronics, the Optical Society Wood Prize, the Berthold Leibinger Future Prize, the Julius Springer Prize in Applied Physics, the Institute of Physics Duddell Medal, the Jan Czocharlski Award for lifetime achievements in Materials Science, and the Gold Medal of the President of Italy for meritorious achievement in science. He holds honorary doctorates from Lund University, Diderot University and the Universities of Bologna and Roma II (Tor Vergata). He is a member of the National Academy of Sciences, the National Academy of Engineering, a fellow of the American Academy of Arts and Sciences (AAAS) and a foreign member of the Accademia dei Lincei.

Who should attend:

Optics engineers, designers, researchers and educators, and anyone who is interested in learning about new developments in lens technology and how they could impact future products and applications.



Mark Your Calendar

Date: Wednesday, May 09, 2018

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