

IQSE AMO QO Seminar Series

Tuesday, November 8th, 11:30 am ZOOM &
IQSE seminar room (MPHY 578)

Pizza will be served for IQSE members at 11:00 am. The talk will start around 11:30 am

Dr. J. G. Eden

(University of Illinois)

Fractal laser modes, speckle-free optical imaging, water optics, and other fascinating topics in optical physics and engineering

EVENT DETAILS: Recent experiments at Illinois have generated fundamental and higher-order laser fractal modes and literally thousands of microlaser beams from a single microresonator. The application of this rather unusual optical source to speckle-free imaging of *Drosophila* (the common fruit fly) and other fast-moving objects will be described. Photolithography at 172 nm, first demonstrated several years ago, has opened the door to a new world of optical components and devices, including water optics and phase forks. These and other delightful developments, such as the realization of plasma photonic crystals operating in the 100-300 GHz region of the electromagnetic spectrum, will be presented.

ZOOM information:

<https://tamu.zoom.us/j/98156251523?pwd=QVdSdGxtL1UyY0g1L083SU5QR0QrUT09>

Meeting ID: 981 5625 1523

Passcode: 297578

One tap mobile

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