



LIQUID CRYSTAL MATERIALS
RESEARCH CENTER
SPECIAL SEMINAR SERIES

**Improving the performances and functionalities of
photonics devices with subwavelength structures
and nanoparticles**

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Electronics circuits keep shrinking in dimensions, according to Moore's law. In contrast, photonic circuit elements and waveguides have lateral dimensions typically in the order of the wavelength. A key to make photonics have an electronics-like development is a drastic reduction of size. To reduce the size and improve the functionalities of photonic devices, we use high-index materials (e.g. Si), plasmonics, nano-structured artificial materials and nanoparticles. We will present our recent results along this direction for the applications in e.g. telecommunications and bio-imaging/sensing.

Monday, February 9th at 12:00 p.m.
Duane Physics Room G1B31



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