

ECE 600 Seminar
May 2, 2011, 3:45 – 4:45PM, EH 1800

Title: Adaptive Liquid And Liquid Crystal Photonic Devices

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Abstract:

Tunable-focus liquid and liquid crystal lenses offer attractive advantages for compact optical imaging systems and 3D displays. Some new adaptive liquid lenses based on membrane, electro-wetting, mechanical-wetting, and dielectrophoresis effects will be presented. The operation principles and performance characteristics of these tunable photonic devices will be described.

Short Bio:

Shin-Tson Wu is a Pegasus professor at College of Optics and Photonics, University of Central Florida. Prior to joining UCF in 2001, he was with Hughes Research Laboratories (Malibu, California) for 18 years. He received his Ph.D. in quantum electronics from the University of Southern California and BS in physics from National Taiwan University. He is a Fellow of the IEEE, SID, OSA, and SPIE, and the recipient of 2011 SID Slottow-Owaki prize, 2010 OSA Joseph Fraunhofer award/Robert M. Burley prize, 2008 SPIE G. G. Stokes award, and 2008 SID Jan Rajchman prize. He was the founding Editor-In-Chief for the IEEE/OSA Journal of Display Technology.