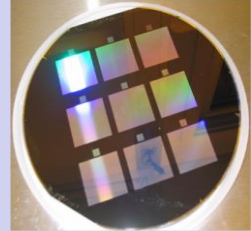


SHORT COURSE SERIES IN ELECTRO-OPTICS 2015



Principal EO Faculty

Imad Agha, Physics
Partha Banerjee, EO
Andy Chong, Physics
Bradley Duncan, EO
Joseph Haus, EO
Andrew Sarangan, EO
Mikhail Vorontsov, EO*
Qiwen Zhan, EO
*WBI Endowed Chair

EOP at UD is the flagship graduate program in the university with 15 faculty from EO, Physics and ECE, including an endowed chair, and 10 technical staff; LOCI, the laser center; over 60 MS and PhD students, and with over \$2M in annual research expenditures.

Associated EO Faculty

Vijay Asari, ECE
Monish Chatterjee, ECE
Cong Deng, EO
Matt Dierking, AFRL
Dean Evans, AFRL
Shekhar Guha, AFRL
Russ Hardie, ECE
Kiego Hirakawa, ECE
Jay Mathews, Physics
Paul McManamon, EO
Rita Peterson, AFRL
Ernst Polnau, EO
Guru Subramanyam, ECE
Thomas Weyrauch, EO
Ed Watson, UDRI
Perry Yaney, Physics

QUANTUM OPTICS July 6-10, 2015

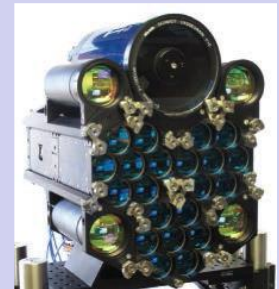
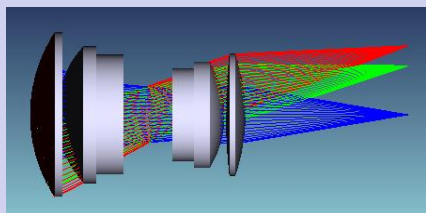
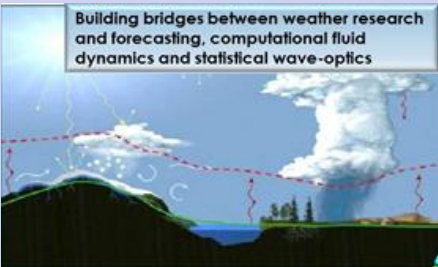
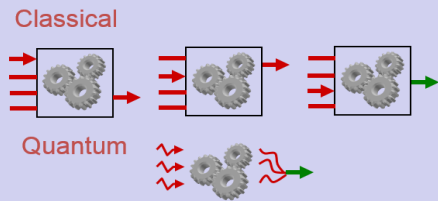
Introduction to quantum photonics and quantum information processing. Photons and quantum states of light; qubits and their manipulation via quantum gates and circuits; quantum information models; quantum computing; quantum cryptography. Pre-requisites: undergraduate-level electromagnetic theory, basic quantum mechanics. Instructor: Dr. Imad Agha

INTRODUCTION TO ATMOSPHERIC OPTICS July 13-17, 2015

Fundamentals of atmospheric physics, global and macro optical effects; atmospheric optical turbulence and its impact on imaging systems; atmospheric optical systems modeling and performance analysis; laser beam propagation in atmosphere, mitigation and exploitation of atmospheric effects. Instructor: Dr. Mikhail Vorontsov

OPTICAL DESIGN WITH ZEMAX July 20-24, 2015

Introduction to ZEMAX and development of fundamental skills for designing practical optical systems. Project design with ZEMAX, using database of sample files; discussion of several real typical design projects. Includes discussions and help on students' ongoing projects, two-month access to ZEMAX (Premium Version), and follow-up discussions. Instructor: Dr. Cong Deng



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