



New course in Electro-Optics: Spring 2014

EOP 695

Introduction to Atmospheric Optics

MW 4:30-5:45 @ Riverside Research*

149 km free space laser beam propagation between Hawaii and Maui islands

Lead Instructor

Dr. Mikhail Vorontsov (UD)

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with

Dr. Steven Fiorino (AFIT)

Dr. Michael Roggemann (Mich. Tech)

Dr. Olga Korotkova (U. Miami)

Dr. David Voelz (New Mexico State U.)

Dr. Sukanta Basu (North Carolina State U.)

Topics

- *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*

Prerequisites: BS in Physics/ECE; Physical/Fourier Optics; Statistics/Statistical Optics

*2640 Hibiscus Way, Room 110, Beavercreek, OH 45431