



THE UNIVERSITY OF ARIZONA

Wyant College  
of Optical Sciences

# INDUSTRIAL AFFILIATES WORKSHOP

## FACULTY SPEAKER PROFILE



### MIROSLAV KOLESIK, PROFESSOR OF OPTICAL SCIENCES

Tuesday, February 15, 2022 | 10:56 a.m.

*Title: "Nonlinearity and Turbulence in Long-wavelength Infra-red Pulses: Competition or Synergy?"*

**Abstract:** We study the interplay between the optical turbulence and nonlinearity in long-wavelength infrared pulsed beams. Contrary to the intuition, we find that in certain regimes turbulence acts in synergy with the self-focusing nonlinearity, and aids in the nonlinear self-trapping of the beam.

**Bio:** M. Kolesik is a professor at the Wyant College of Optical Sciences. His research interests are in the area of computational nonlinear optics.



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