

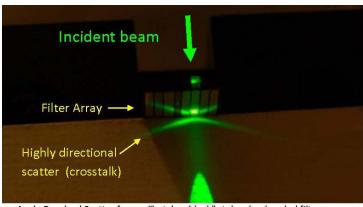
## Meeting Announcement

April 13, 2011

## Angle Resolved Scattering from Optical Filters for Space Applications

Peter Fuqua, The Aerospace Corporation

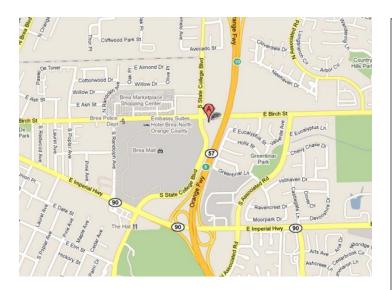
Multi-spectral imaging systems commonly use edge-bonded filter arrays (also called butcherblocks) for spectral selection. These arrays are built from small filter "sticks" that are diced from coated substrates and then bonded together. Depending on substrate preparation and deposition conditions, some filters exhibit Angle Resolved Scattering (ARS) that leads to reduced out-of-band rejection or optical Both effects can degrade system crosstalk. performance. This talk will present a case study of how ARS contributed to optical cross-talk in an imaging payload and how design choices



Angle Resolved Scatter from a "butcher-block" style edge-bonded filter array.

and materials processing parameters contribute to the magnitude of optical cross talk.

About our speaker: **Peter Fuqua** is a Senior Scientist in the Space Materials Laboratory at The Aerospace Corporation in El Segundo, CA. He has supported numerous space programs and is the author of over 50 papers on topics including scatter in coatings, silver mirror durability, space environmental effects, nanosatellite propulsion, and nonlinear optical materials. Dr. Fuqua has been awarded 6 patents.



## Wednesday, April 13, 2011

Reception: 6:00; Dinner: 7:00; Talk: 8:00

Meal: Buffet Style

**Cost: \$20.00 (OSSC Student Members are Free!)** 

Osaka Seafood Buffet 200 South State College Blvd. Brea, CA 92821 (714) 529 – 1998

On-line Registration: <a href="www.ossc.org">www.ossc.org</a> or Contact: <a href="mailto:Katherine St. John">Katherine St. John</a>, <a href="mailto:Ossc.org">OSSC</a> Arrangements Chair, <a href="mailto:Events@ossc.org">Events@ossc.org</a>, 951 200-0147 Please Register by April 11, 2011

Please post this notice and invite your friends & colleagues to attend!