

Agenda of the 12th North American OptiLayer Workshop

Optical Coatings for Modern Applications

Organized by OptiLayer GmbH and Coherent Technologies

November 7-9, 2017

MP3 meeting room of the Explora Science Center and Children's Museum

1701 Mountain Road NW, Albuquerque, NM 87104

Tuesday, November 7 (Beginner's day)

- | | |
|--------------|--|
| 9:00 | Opening remarks |
| 9:10 | Core expertise and basic principles of OptiLayer software |
| 9:55 | Exercises |
| 10:40 | Coffee break |
| 11:10 | Basics of designing |
| 11:55 | Design class |
| 12:40 | Lunch |
| 13:40 | Import and export of data in OptiLayer software |
| 14:25 | Exercises |
| 15:10 | Coffee break |
| 15:40 | Basics of optical characterization and reverse engineering |
| 16:25 | Characterization and reverse engineering class |
| 17:10 | Day concludes |

Wednesday, November 8

- 9:00 General purpose design techniques and practical aspects of designing.
- 9:45 Production-friendly designs (thin layer removal, design cleaner, random optimization)
- 10:30 Coffee break**
- 11:00 Advanced OptiLayer tools: stacks, cone angles, line widths, optimization of absorption, robust synthesis, floating constants in targets, integral targets, sensitivity-directed refinement, taper function
- 11:45 Advanced OptiLayer tools (part II)
- 12:30 Lunch**
- 13:30 Color evaluation and design of coatings for color applications
- 14:15 Design of multilayers for ultrafast applications
- 15:00 Coffee break**
- 15:30 Design of WDM and narrow band pass filters
- 16:15 Overview of monitoring techniques for optical coating production
- 17:00 Questions and problems on the fly
- 17:30 Day concludes**
- 18:00 Workshop reception (dinner will be provided)**

Thursday, November 9

- 9:00 Pre-production error analysis and simulation options
- 9:45 Advanced characterization on the basis of spectral photometric and spectral ellipsometric da
- 10:30 Coffee break**
- 11:00 Advanced OptiRE options and its applications including automation support
- 11:45 OptiLayer in modern design-production chains. OptiReOpt library for production control with broad band optical monitoring.
- 12:30 Closing remarks**