Langbein Thelen Consulting

Agenda of the 22nd European OptiLayer workshop

Optical Coatings for Modern Applications

Organized by OptiLayer GmbH and Langbein&Thelen Consulting

April 17-19, 2018
Schott Suisse SA, Rue Galilée 2, CH-1401 Yverdon-Les-Bains, Switzerland

Tuesday, April 17 (beginner's day)

9:00	Opening remarks
9:10	Basic principles of OptiLayer software, evaluation of coatings
9:55	Exercises
10:40	**Coffee break**
11:00	Design techniques
11:45	Exercises
12:30	**Lunch**
13:30	Import and export of data in OptiLayer software
14:15	Exercises
15:00	**Coffee break**
15:20	Optical characterization
16:05	Exercises
17:00	**Day concludes**

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Wednesday, April 18

9:00	General-purpose design techniques and practical aspects of designing.
9:45	Production-friendly design techniques (thin layer removal, design cleaner, random optimization, variator)
10:30	**Coffee break**
10:50	Advanced design/evaluation tools: stacks, cone angles, line widths, optimization of absorption, robust synthesis, floating constants in targets, integral targets, sensitivity-directed refinement, taper function
11:35	Color evaluation, design of coatings for color applications and architecture glass.
12:20	**Lunch**
13:20	Design of multilayers for ultrafast applications
14:05	Design of WDM, narrow band pass filters, and high reflectors
14:50	**Coffee break**
15:10	Demonstrations of OptiLayer design tools / Advanced design class
15:55	Demonstrations of OptiLayer design tools / Advanced design class
16:40	Questions and problems on the fly / Advanced design class
17:30	**Day concludes**
18:00	**Workshop reception (dinner will be provided)**

Thursday, April 19

9:00	Advanced production characterization of single layers on the basis of spectral photometric and spectral ellipsometric data
9:45	Post-production characterization of multilayer optical coatings.
10:30	**Coffee break**
10:50	Advanced post-production characterization of multilayer coatings (quasi-random errors, colors, U- and g-values, variator, multi-scan data processing, evolutionary algorithm, vacuum materials)
11:45	Overview of monitoring techniques for optical coating production (generation of monitoring spreadsheets)
12:20	**Lunch**
13:30	Pre-production error analysis and simulation options
14:15	Implementation of OptiRE into design-production chains (COM automation)
15:00	**Coffee break**
15:20	OptiReOpt library for control of production with broadband optical monitoring
16:05	**Closing remarks**