



Langbein Kolb  
Consulting

## OTF Studio Workshop

### 22.05.2024-24.05.2024, Tegernsee, Germany

#### Preliminary Agenda

**OTF Studio Workshop** organized by OTF Studio GmbH and Langbein Kolb Consulting is an excellent chance to get insights into the main principles of the OTF Studio Thin Film Software software and get practical, hands-on experience with the software.

**Location:** The hotel "Terrassenhof" in Bad Wiessee is located directly at the lake shore of **Tegernsee**, which is a beautiful lake in the Bavarian Alps, approximately 50 kilometers southeast of Munich. The location offers convenient transportation options.

#### Important:

- Please bring your laptops with you. The software should be either installed in advance or you need to have administrative permission to install the software before the workshop starts.
- Please book the hotel room yourself!

#### Who should attend:

The workshop is tailored for optical coatings engineers, scientists, students, PhD students, and technicians who are engaged in the design, characterization, monitoring, production, and development of optical thin films. No deep knowledge of mathematics or physics is required.

#### What will you learn:

- OTF Studio main principles, interface, design, characterization, and reverse engineering algorithms
- Opportunities to harness OTF Studio and taReo in your real design-production environment.
- Multiple examples and demonstrations related to OTF Studio features and algorithms.

#### More:

- We are there to help with all your design, characterization, automatization, and reverse engineering challenges.
- Your feedback and requests for new features are valuable to us, and we would be delighted to receive them.



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## Highlights:

Our guest speaker: Mr. Bram Vingerling, bvTechCon <https://www.bvtechcon.de>, Technical Consulting, Precision Optics and Thin Films

## Take-home Materials:

Trial license in the case of interest; training materials (presentations, examples).

**Last but not least:** You can look forward to dinner, lunch, and coffee breaks, providing excellent opportunities to engage in discussions about potential collaborations with OTF Studio, share feature requests, and enjoy insightful conversations with fellow participants.

The preliminary agenda is provided below, subject to potential modifications.

## Time schedule

Wednesday, 22.05.2024	
9:00-9:10	Welcome and Introduction
9:10-10:30	<ul style="list-style-type: none"><li>• Overview and general concept of OTF Studio Software</li><li>• User interface</li><li>• Data storage, operations with projects, catalogs</li><li>• Analysis options of OTF Studio</li></ul>
10:30 - 11:00	Coffee Break
11:00 - 12:30	<b>Training:</b> operating projects, setting up input parameters, evaluation options
12:30 - 14:00	Lunch
14:00 – 15:30	<ul style="list-style-type: none"><li>• Design algorithms of OTF Studio (incl. target definition, design from scratch, starting designs, production-friendly tools)</li><li>• Design of various types of optical coatings</li></ul>
15:30-16:00	Coffee break
16:00 – 17:30	<b>Training:</b> design examples, synthesis of various types of coatings; synthesis of coatings for various spectral ranges Questions
18:00	Dinner at the hotel (incl. in workshop fee)
Thursday, 23.05.2024	
9:00-10:30	Tools <ul style="list-style-type: none"><li>• In-Memory editor</li><li>• Analysis on-the-fly</li><li>• Settings, plots, panels, charts, tooltips, compare designs, Monte-Carlo simulations, exchange between projects</li></ul>
10:30 -11:00	Coffee break
11:00 – 12:00	<ul style="list-style-type: none"><li>• Color evaluation, integrated spectral characteristics.</li><li>• Combination of target, combined design problems</li><li>• <b>Training</b></li></ul>



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12:00 - 12:30	<b>Invited talk:</b> Limiting practical process aspects, impacting optical coating production yield ( <b>Bram Vingerling</b> )
12:30-14:00	Lunch
14:00 – 15:30	<ul style="list-style-type: none"> <li>• Characterization algorithms, options, and tools of OTF Studio</li> <li>• Choice of thin film model</li> <li>• Import/export options of OTF Studio</li> <li>• Demonstrations using multiple practical examples.</li> </ul>
15:30-16:00	Coffee break
16:00-17:30	<ul style="list-style-type: none"> <li>• Reverse engineering algorithms, options, and models of OTF Studio</li> <li>• <b>Training:</b> characterization and reverse engineering problems</li> </ul>
18:00	Dinner at the Restaurant of Terrassenhof (incl. in workshop fee)
Friday, 24.05.2024	
9:00-10:30	Monitoring options; <b>Training</b>
10:30-11:00	Coffee break
11:00-12:30	Development of own projects using OTF Studio and taReo tools: <ul style="list-style-type: none"> <li>• Programming with OTF</li> <li>• Support of the production of optical coatings</li> <li>• Potentials of taReo for offline use</li> </ul>
12:30-13:30	Lunch
13:30-15:00	Designing of coatings for ultrafast applications
15:00 – 16:00	<ul style="list-style-type: none"> <li>• Development trends</li> <li>• Questions, suggestion, feedback for further development of the software</li> </ul>