

Optical Coating Design & Technology Workshop

WHEN: April 21-23, 2026

WHERE: Savanorių pr. 235, Vilnius, 02300 Vilniaus m. sav., Lithuania

Join us for an educational session of Advances in Optical Coating Technology, presented by Dr. James Oliver of Vacuum Innovations at FTMC. This workshop explores today's key challenges and solutions in optical coating design, deposition uniformity, thin-film stress control, and modern deposition processes—delivering practical insight into how materials, processes, and manufacturing decisions impact real-world optical performance, reliability, and scalability. One full day features OTF Studio software training, led by Dr. Tatiana Amochkina, offering applied tools for advanced coating design and analysis.

DAY 1 - Optical Coating Design

Day 1 of this workshop covers the fundamentals of optical coating design, including coating materials and substrate selection, refractive index, dispersion, and absorption. Topics include thin-film theory, multilayer design concepts, and the design of antireflection, high-reflector, and filter coatings, with an emphasis on understanding performance trade-offs through spectral modeling and simulation tools.

DAY 2 - OTF Studio

Day 2 of this session offers a hands-on introduction to thin-film design, covering core design and analysis tools, efficient optimization workflows, and application-driven challenges such as laser, ultrafast, and filter coatings. Using the OTF Studio design toolset, participants will tackle practical design and reverse-engineering problems in an interactive setting that encourages active discussion and shared problem solving.

DAY 3 - Specialty Topics

Day 3 is designed to expand your knowledge with focused lectures on practical challenges in optical coatings, including deposition uniformity and its impact on film thickness, laser-induced damage in high-power applications, thin-film stress and mitigation to prevent distortion and failure, and key characterization and testing methods used to verify optical performance, stress, and damage thresholds.

**With any questions or to purchase tickets please contact
moliver@vacuuminnovations.com or call (585)694-0651**

