



TechCon Tutorial Schedule

You do not have to register for the TechCon or be a member of SVC to attend tutorials.

Anyone can take advantage of the practical problem-solving tutorials developed by the SVC. Taught by some of the most respected professionals in the vacuum coating industry, these tutorials cover every aspect of vacuum coating and complement the technical conference sessions and Exhibit. Twenty-six tutorials will be offered, including six new tutorials. Discounted fees are available for full time students.

Saturday, April 28

- V-204** Vacuum Systems, Materials and Operation (*O'Hanlon*)
- C-103** An Introduction to Physical Vapor Deposition (PVD) Processes (*Shah*)
- C-311** Thin Film Growth and Microstructure Evolution (*Greene*)
- C-332** **NEW!** Zinc Oxide-Based and Other TCO Alternatives to ITO: Materials, Deposition, Properties and Applications (*Bright*)

Sunday, April 29

- C-203** Sputter Deposition (*Greene*) - Day 1 of 2-Day Tutorial
- C-301** Optical Coating Design (*Willey*)
- C-335 (AM)** **NEW!** Understanding Solar Cells (*Martin*)
- C-330 (PM)** Introduction to Thin Film Photovoltaic Technologies (*Sittinger & Schlatmann*)
- C-323** High Power Impulse Magnetron Sputtering (*Ehiasarian & Anders*)

Monday, April 30

- C-211** Sputter Deposition onto Flexible Substrates (*McClure*)
- C-322** Characterization of Thin Films (*Christensen*)
- C-302** Practical Aspects of Optical Coatings (*Morton*)
- C-203** Sputter Deposition (*Greene*) - Day 2 of 2-Day Tutorial

Tuesday, May 1

- C-210 (PM)** Introduction to Plasma Processing Technology (*Baránková & Bárdos*) .
- C-318 (AM)** Nanostructures: Strategies for Self-Organized Growth (*Greene*)
- C-208** Sputter Deposition in Manufacturing (*Glocker*)
- C-333 (AM)** **NEW!** Practice and Applications of High Power Impulse Magnetron Sputtering (HIPIMS) (*Bandorf & Ehiasarian*)
- M-102 (AM)** **NEW!** Introduction to Ellipsometry (*Hilfiker*)
- C-328 (PM)** Properties and Applications of Tribological Coatings (*Matthews*)
- C-326 (PM)** Manufacture of Precision Evaporative Coatings (*Oliver*)

Wednesday, May 2

- C-212** Troubleshooting for Thin Film Deposition Processes (*Ash*)
- V-207** Practical Aspects of Vacuum Technology: Operation and Maintenance of Production Vacuum Systems (*Langley*)
- C-331** **NEW!** Industrial Ion Sources (*Zhurin*)
- C-317** Practice of Reactive Sputtering (*Sproul*)

Thursday, May 3

- C-320 (AM)** Diamond Like Carbon Coatings – from Basics to Industrial Realization (*Schuelke, van de Kolk, & Bewilogua*)
- C-324 (AM)** Atmospheric Plasma Technologies (*Baránková & Bárdos*)
- C-316 (AM)** **NEW!** Introduction to Atomic Layer Deposition (ALD) Processes, Chemistries and Applications (*Willis*)

Tutorial Classification System

The tutorial codes provide the prospective attendee with some guidance as to whether the emphasis in the tutorial is primarily on vacuum technology (V code), or vacuum deposition coating processes and technology (C code), or other miscellaneous topics (M code). The tutorial number indicates the level of tutorial specialization—the lower numbers refer to basic or introductory tutorials, and the higher numbers refer to tutorials that offer a more specialized treatment of a specific topic. Tutorials are full day (8:30 a.m. to 4:30 p.m.) unless noted as AM or PM for half-day courses.

For details on all tutorials in the SVC portfolio, including the description, topical outline, tutorial syllabus and biographical sketches of the instructors, explore the Education button at www.svc.org. Register on-line or contact the SVC at 505/856-7188 or by E-mail to svcinfo@svc.org.

Here's what a few previous students have said about SVC's Tutorials

"Fantastic session. The instructor was very engaging and he explained the topics very well. He took great care to answer clearly and thoroughly. I took four classes this week and this was by far the most informative and helpful."
– A. Larnece C-208

"Excellent tutorial. Good balance of technical and practical information."
– C. Dixon C-208

"The instructor made the course material easy to understand and related it to practical applications by giving real world examples."
– E. Urbanski C-212

"The instructor made the course both educational and entertaining."
– A. Morrish C-322

"I thoroughly enjoyed the class and look forward to putting the knowledge into practice."
– J. Nall C-328

"Very good teacher with loads of knowledge in both theoretical and practical issues."
– H. Frederiksen C-326