

# TechCon Tutorial Schedule – December 15, 2022

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Saturday, May 6, 2023

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- C-103 [An Introduction to Physical Vapor Deposition \(PVD\) Processes](#) *Shah* 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- C-204 [Basics of Vacuum Web Coating](#) *Simmons* **AM** 9:30AM - 1:00PM  
**Professional with Conference: \$410, Professional Tutorial Only: \$470**  
**Student/Young Member with Conference: \$160, Student/Young Member Tutorial Only: \$180**
- C-205 [Introduction to Optical Coating Design](#) *Sargent* 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- C-208 [Sputter Deposition for Industrial Applications – Session 1](#) *Glocker* 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- C-230 [PVD Processing of Plastics for Better Protection, Reflection, and Decoration](#) *Vergason* **AM** 9:30AM - 1:00PM  
**Professional with Conference: \$410, Professional Tutorial Only: \$470**  
**Student/Young Member with Conference: \$160, Student/Young Member Tutorial Only: \$180**
- C-333 [Practice and Applications of High Power Impulse Magnetron Sputtering](#) *Ehiasarian/Bandorf* 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- VT-201 [High Vacuum Systems and Operation](#) *O'Hanlon* (Includes Textbook) 9:30AM - 5:30PM  
**Professional with Conference: \$690, Professional Tutorial Only: \$815**  
**Student/Young Member with Conference: \$355, Student/Young Member Tutorial Only: \$405**

Register for both VT-201 and VT-203 and you will receive a \$125 discount on the combined cost of both courses!

# TechCon Tutorial Schedule – December 15, 2022

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Sunday, May 7, 2023

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- C-212 [Troubleshooting for Thin Film Deposition Processes – Session 1](#) Miller 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- C-218 [Advanced Design of Optical Thin Films](#) Willey (Includes Textbook) 9:30AM - 5:30PM  
**Professional with Conference: \$665, Professional Tutorial Only: \$790**  
**Student/Young Member with Conference: \$330, Student/Young Member Tutorial Only: \$380**
- C-323 [Fundamentals of High Power Impulse Magnetron Sputtering \(HIPIMS\)](#) Ehasarian 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- C-334 [Manufacture of Precision Evaporative Coatings](#) Oliver 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- C-337 [ITO and Alternative TCO: From Fundamentals to Controlling Properties](#) Bright 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- VT-203 [Residual Gas Analyzers and Analysis](#) O'Hanlon (Includes Textbook) 9:30AM - 5:30PM  
**Professional with Conference: \$690, Professional Tutorial Only: \$815**  
**Student/Young Member with Conference: \$355, Student/Young Member Tutorial Only: \$405**

Register for both VT-201 and VT-203 and you will receive a \$125 discount on the combined cost of both courses!

# TechCon Tutorial Schedule – December 15, 2022

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Monday, May 8, 2023

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- C-338 [Application of Reactive Sputtering](#) *Bandorf/Gerdes* 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- M-230 [Nanoscale Heat Transfer in Thin Films and Interfaces](#) *Hopkins* **New!** 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- VT-240 [Practical Elements of Leak Detection](#) *Deluca* **New!** 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**

# TechCon Tutorial Schedule – December 15, 2022

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Tuesday, May 9, 2023

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- B-140 Export Control *Jacobson* **New!** Syllabus coming soon! 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- C-217 [Practical Production of Optical Thin Films](#) *Willey* (Includes Textbook) 9:30AM - 5:30PM  
**Professional with Conference: \$665, Professional Tutorial Only: \$790**  
**Student/Young Member with Conference: \$330, Student/Young Member Tutorial Only: \$380**
- C-220 [Introduction to Two-Dimensional Materials](#) *Muratore* **AM** 9:30AM - 1:00PM  
**Professional with Conference: \$410, Professional Tutorial Only: \$470**  
**Student/Young Member with Conference: \$160, Student/Young Member Tutorial Only: \$180**
- C-320 [Diamond-Like Carbon Coatings – From Basics to Industrial Realization](#) 9:30AM - 1:00PM  
*Savva/Haubold/Keuneck/Stein/Petzold* **AM**  
**Professional with Conference: \$410, Professional Tutorial Only: \$470**  
**Student/Young Member with Conference: \$160, Student/Young Member Tutorial Only: \$180**
- M-102 [Introduction to Ellipsometry](#) *Hilfiker* **AM** 9:30AM - 1:00PM  
**Professional with Conference: \$410, Professional Tutorial Only: \$470**  
**Student/Young Member with Conference: \$160, Student/Young Member Tutorial Only: \$180**
- M-210 [Introduction to Solid-State Thin Film Batteries](#) *Gaines* **AM** 9:30AM - 1:00PM  
**Professional with Conference: \$410, Professional Tutorial Only: \$470**  
**Student/Young Member with Conference: \$160, Student/Young Member Tutorial Only: \$180**

## TechCon Tutorial Schedule – December 15, 2022

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Wednesday, May 10, 2023

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- C-208 [Sputter Deposition for Industrial Applications – Session 2](#) *Glocker* 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- C-210 [Introduction to Plasma Processing Technology](#) *Baránková/Bárdos* **AM** 9:30AM - 1:00PM  
**Professional with Conference: \$410, Professional Tutorial Only: \$470**  
**Student/Young Member with Conference: \$160, Student/Young Member Tutorial Only: \$180**
- C-306 [Non-Conventional Plasma Sources and Methods in Processing Technology](#) 2:00PM - 5:30PM  
*Baránková/Bárdos* **PM**  
**Professional with Conference: \$410, Professional Tutorial Only: \$470**  
**Student/Young Member with Conference: \$160, Student/Young Member Tutorial Only: \$180**
- C-316 [Introduction to Atomic Layer Deposition \(ALD\) Processes, Chemistries, and Applications](#) *Biyikli* 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- M-120 [Design of Experiments for R&D](#) *Grace* 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- M-201 [Flexible Electronics](#) *Muratore* **AM** 9:30AM - 1:00PM  
**Professional with Conference: \$410, Professional Tutorial Only: \$470**  
**Student/Young Member with Conference: \$160, Student/Young Member Tutorial Only: \$180**

## TechCon Tutorial Schedule – December 15, 2022

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Thursday, May 11, 2023

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- C-212 [Troubleshooting for Thin Film Deposition Processes – Session 2](#) *Miller* 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- C-214 [Thin Film Deposition Optimization](#) *Willey* **AM New!** 9:30AM - 1:00PM  
**Professional with Conference: \$410, Professional Tutorial Only: \$470**  
**Student/Young Member with Conference: \$160, Student/Young Member Tutorial Only: \$180**
- C-322 [Characterization of Thick Films, Thin Films and Surfaces](#) *Christensen* 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**
- C-329 [Properties and Applications of Tribological and Decorative Coatings](#) *Doll/Matthews* 9:30AM - 5:30PM  
**Professional with Conference: \$565, Professional Tutorial Only: \$690**  
**Student/Young Member with Conference: \$230, Student/Young Member Tutorial Only: \$280**