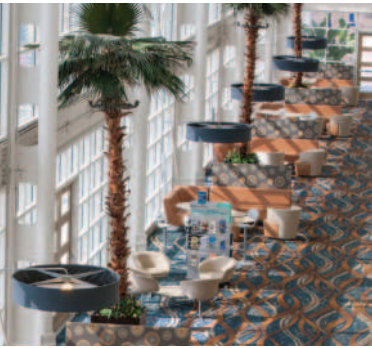




# TechCon 2026 Long Beach

69<sup>th</sup> Annual SVC Technical Conference • April 25 – 30, 2026  
Long Beach Convention Center, Long Beach, California, USA



Scan to see the latest pictures from the 2026 Techcon

# Final Program and Exhibit Guide



SVC TechCon  
Co-Sponsor



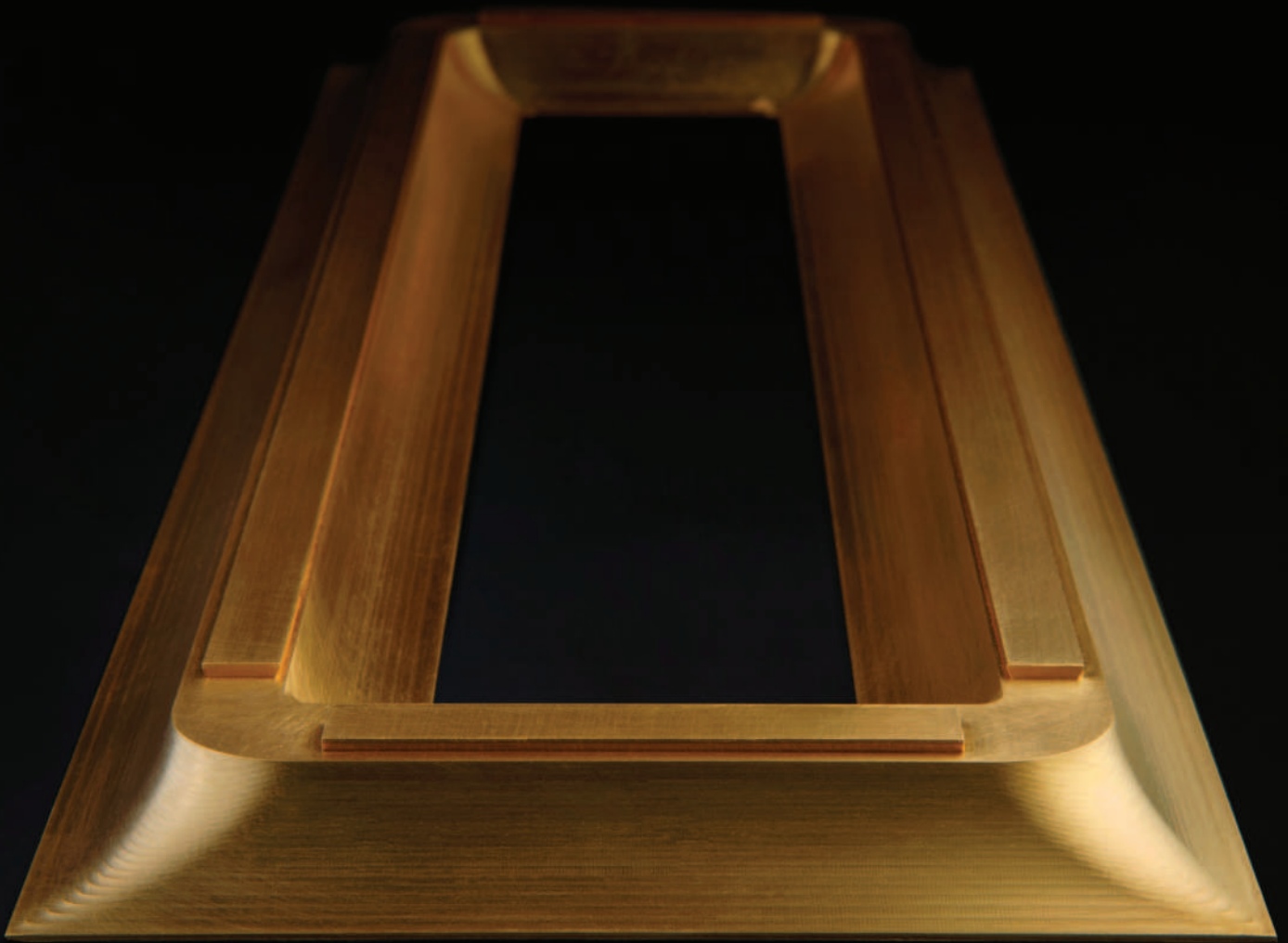
## The Largest Expo and Conference Dedicated to Vacuum Coating Technologies

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Our RETICLE® ion beam sputter deposition systems are engineered to create **precise optical films of the highest purity, density, and stability.**

- antireflective (AR) coatings
- highly reflective (HR) coatings
- coatings for laser diode bars
- telecom optical filters
- vanadium oxide deposition

**Single Substrate**  
up to Ø300 mm

**Load Locks**  
up to Ø300 mm

**Batch Coating**  
4 x up to Ø300 mm



# About Our Venue

## Long Beach Convention Center, Long Beach, California, USA

The 2026 TechCon will be held in the “Center” of Southern California... the Long Beach Convention & Entertainment Center. Located in the heart of Long Beach, the Convention Center is an urban waterfront destination. The building has an impressive architectural design, modern enhancements, and eye-catching décor. The glass dome of the Atrium provides illumination by sunlight in daytime and by colorful LED lights in the evening. The exhibit hall and meetings rooms are perfectly suited for the TechCon and our emphasis on networking and technical exchange. Overlooking bustling Rainbow Harbor, Queen-sway Bay, and Pacific Ocean beachfront, the Center sits in the middle of Long Beach’s downtown waterfront, within walking distance to first-class accommodations, shopping, dining, attractions, sightseeing along picturesque bays, and 5 1/2 miles of sandy beach. Long Beach is convenient to Los Angeles International, Long Beach, and Orange County Airports.

Room blocks and discounted rates have been organized for TechCon attendees. These accommodations are available at:

- \$309 USD (double occupancy) - Hyatt Regency Long Beach Hotel, 200 S. Pine Avenue, Long Beach, CA 90802

Located on a premier waterfront spot in the heart of downtown, Hyatt Regency Long Beach is the only 4 Diamond Award-winning Long Beach, California, hotel with all 531 rooms and suites offering ocean or harbor views. The Hyatt Regency Long Beach is connected directly to the Long Beach Convention Center and will house the majority of the TechCon’s social events as well as meeting space/classrooms for the TechCon TFB and tutorial programs.

- \$319 USD (double occupancy) - Hyatt Centric The Pike Long Beach Hotel, 285 Bay St, Long Beach, CA 9080

Hyatt Centric The Pike Long Beach pays homage to the fascinating history of The Pike, an amusement park founded in 1902 that was a thriving destination for its bathhouse, wooden roller coaster, arcades and exciting family fun until 1979. This luxe hotel possesses a rooftop pool and bar with 360° panoramic views, places you in the middle of the neighborhood action so you can explore Long Beach’s bustling shopping areas, non-stop nightlife and the rolling surf of California’s Pacific Ocean. The hotel is a two-minute walk from the Long Beach Convention Center.

**Important note!** Discounted room rates are available **exclusively** on the dedicated hotel pages that will be accessible on the SVC 2026 TechCon registration site. **The SVC does not engage with any third-party companies to provide hotel accommodations.** Be aware that in all cases, organizations representing themselves as affiliated with the SVC when it comes to hotel accommodations for the TechCon are likely to have malicious motives leading to a nefarious outcome if you rely on them.



# Exhibit Floor Plan

## Exhibit Dates and Hours

### Tuesday, April 28

11:00 a.m. to 6:00 p.m.

### Wednesday, April 29

10:00 a.m. to 4:00 p.m.

## Booth Set-Up Hours

### Monday, April 27

1:00 p.m. to 6:00 p.m.

### Tuesday, April 29

7:00 a.m. to 9:00 a.m.

## Booth Tear-Down Hours

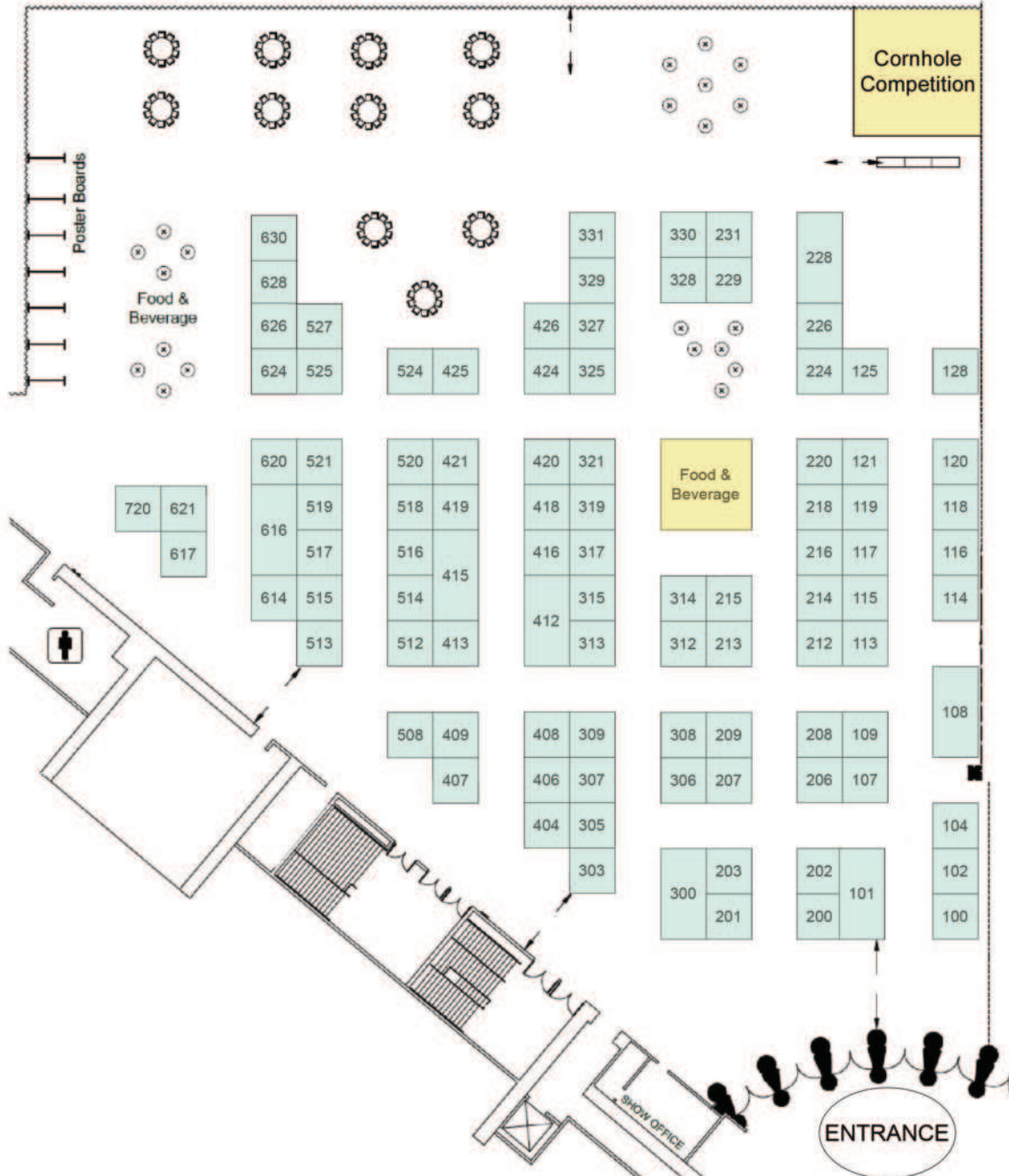
### Wednesday, April 30

4:00 p.m. to 8:00 p.m.

### Thursday, April 31

7:00 a.m. to 10:00 a.m.

**Note:** The Welcome Reception will be held on Tuesday, April 28, in the Exhibit Hall from 5:00 p.m. to 6:00 p.m.!



# Networking Opportunities at the 2026 TechCon



## Make Connections

The TechCon is packed with networking events designed to connect vacuum coating and surface engineering professionals with the global SVC community. Each technical and social networking event provides a different forum for invaluable face-to-face interactions and the opportunity to collaborate with technical experts.



## Technology Forum Breakfasts

Vacuum coating technology spans multiple applications and processes. Join a discussion group focused on a topic that's important to you. Enjoy the conversation over breakfast before the start of the technical program Monday, Tuesday and Thursday. Late afternoon sessions are currently under development for Monday and Thursday.

## To all of our SVC Stakeholders:

The [Technology Forum Breakfasts](#) have emerged as one of the most significant networking events at the TechCon. These breakfasts, held from 7:30 a.m. to 8:30 a.m. during the TechCon are "loosely" organized around a specific topic where we provide a moderator, a continental breakfast, plenty of seating, and an opportunity for free form discussion to take place. In the TFBs problems are solved, new ideas are vetted, relationships are made and rekindled; all in the spirit of camaraderie that has made the SVC the most unique technical conference in our field. This year we are expanding the program even further with early evening Sunset sessions from 5:20 - 6:20 PM on Monday, April 27, and from 6:00 - 7:00 PM on Thursday, April 30. Please be sure to check the daily schedule (the TFBs are offered on Monday, Tuesday, and Thursday of the TechCon) to find those topics that interest you! And remember, we are always looking for new topics as well as moderators to get the discussion going. Good luck and have fun!

— Frank Zimone, Executive Director



## Exhibit Networking

Enjoy more opportunities than ever to visit the Exhibit Hall.

- Welcome Snacks and Cocktail Hour are two separate events held in the exhibit hall during the first day of the technical exhibition.
- Poster Session ■ Beer Blast

## Additional Networking:

- Technical Program Keynote Presentations
- Exhibitor Innovator Showcase
- Colloquium Round Table Discussions

## SVC Foundation Networking Events

### CASINO NIGHT

Come and join us for an evening of fun and networking, all to help a great cause at the Annual SVC Foundation Casino Night on Monday, April 27, 2026. *Additional Casino Night tickets can be purchased on-line during TechCon registration or at the TechCon. This is a wonderful opportunity to entertain friends and customers who may not be registered for the conference.*

### RUN FOR A CAUSE!

Register for the Annual 5K Fun Run and support the scholarship efforts of the SVC Foundation. Bib pickup is tentatively scheduled for 5:30 a.m. on Wednesday, April 29, 2026, outside the Convention Center entrance.



# Networking Opportunities at the 2026 TechCon



## 2026 SVC Awards Ceremony and Welcome Reception

Date: **Tuesday, April 28, 2026**  
(8:40 - 9:20 a.m.)

*Everyone is invited to attend*

The **Awards Ceremony** will introduce and recognize the Nathaniel Sugarman Memorial Award recipient, SVC Fellow-Mentor Award recipients, and Sponsored Student awardees.

The **Welcome Reception** is a popular networking event at the TechCon. It offers a relaxed venue to meet friends and colleagues and provides the opportunity to make new connections. In 2026 the Welcome Reception will be break for snacks at 1:30 p.m. and a cocktail hour at 5:00 p.m.; all held in the exhibit hall.



## 2026 SVC TechCon Farewell Social

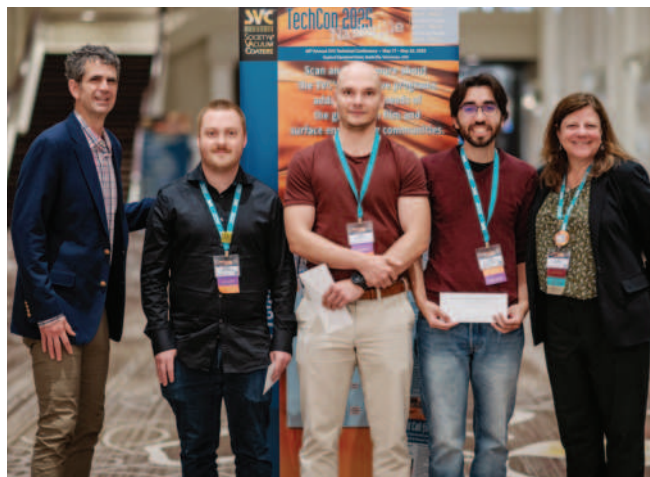
Date: **Thursday, April 30, 2026** (7:20 - 8:50 p.m.)

*Everyone is invited to attend*

The **Farewell Social** will be the last networking event of the TechCon and will commemorate what promises to be the most successful TechCon yet! Come join us as we celebrate our Young Members and all the new connections that were made after a densely packed four day program.

## Job Board

There will be a Job Board in the exhibit hall adjacent to the poster session. Open positions as well as resumes of those looking for a position can be posted. Messages for interested parties, either potential employer or employee, can also be posted on the board.



## Sustainability and Life Cycle Thinking as Innovation Drivers for Surface Engineerings

(Monday, April 27, 2026 – 9:30 AM)

**Christoph Herrmann**

*Fraunhofer Institute for Surface Engineering and Thin Films IST and TU Braunschweig, Braunschweig, Germany*

Surface technologies are fundamental to a wide range of industrial applications and are typically integrated within comprehensive process chains comprising both upstream and downstream activities. Achieving sustainable development demands that engineered solutions operate within the Earth's biophysical limits and adhere to established environmental boundaries. This necessitates the identification of challenges throughout circular value chains and emphasizes the importance of practical, application-oriented research into sustainable product and process innovations. Concurrently, it is crucial to ensure that micro-level engineering decisions are consistent with macro-level sustainability frameworks, such as planetary boundaries, which recognize the finite capacities of global climate and ecosystems. This presentation will outline a systematic methodology

designed to identify and prioritize mitigation strategies, thereby providing valuable insights for engineering initiatives. Relevant case studies from the field of surface engineering will illustrate the effective implementation of this approach..



**Prof. Dr.-Ing. Christoph Herrmann** is university professor for Sustainable Manufacturing & Life Cycle Engineering and co-director of IWF, Institute of Machine Tools and Production Technology, Technische Universität Braunschweig as well as director of the Fraunhofer Institute for Surface Engineering and Thin Films IST since November 2018. Prof. Herrmann serves on different boards, including the Open Hybrid LabFactory (Wolfsburg), the Hydrogen Campus Salzgitter, and the Battery LabFactory Braunschweig. He currently acts as the Spokesperson of the Fraunhofer Center for Energy Storage and Systems (ZESS) in Braunschweig. Since July 2025, he is also the chairman of the Fraunhofer Group for Production. Prof. Herrmann has conducted various industry and research projects in the context of life cycle engineering and sustainable manufacturing on national and international level. He has published more than 500 papers and book publications as author, co-author and editor. Prof. Herrmann is member of the German Academic Association for Production Technology (WGP) and the International Academy for Production Engineering (CIRP).

## Plasma Technologies for Precision and Large-Scale Surface Engineering

(Thursday, April 30, 2026 | 8:40 AM)

**Elizabeth von Hauff**

*Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technologies FEP and TU Dresden, Dresden, Germany*

Fraunhofer Society's mission is to bridge the gap between fundamental and applied research by partnering with industry to translate laboratory results into real-world applications. Fraunhofer FEP in Dresden specializes in electron-beam and plasma technologies for large-scale and precision coatings, alongside advanced surface engineering. By integrating process and hardware development, we deliver technical solutions across a broad range of fields, including energy technologies, architectural glazing, semiconductors, optics, sustainable packaging, and environmental and biomedical applications. Our collaboration models span from feasibility studies to pilot-scale production, accelerating knowledge transfer and reducing risk for industry, with a focus on overcoming bottlenecks in cost, reliability, and performance to deliver scalable, robust solutions. In this talk, I present our latest results in precision coatings for optics and power electronics, and in large-scale, flexible coatings for photovoltaic and battery technologies. We also highlight advances in plasma-chemical processes and discuss

how tailored hardware platforms and integrated process chains can reduce material usage, lower energy consumption, and eliminate toxic precursors, without compromising performance. The focus is on strategies that combine process design, equipment engineering, and system integration to enable cleaner, more efficient solutions.



**Elizabeth von Hauff** studied Physics at the University of Alberta in Edmonton, Canada. Her PhD and Habilitation work was performed at the University of Oldenburg, Germany in experimental physics. In 2011 Elizabeth accepted a joint appointment between the Institute of Physics, University of Freiburg and the Fraunhofer Institute for Solar Energy Systems (ISE). From 2013 – 2021 Elizabeth was an Associate Professor in Physics at the VU Amsterdam. In 2020 she was appointed as a special Chair in Chemistry at the University of Amsterdam. In 2021, she accepted an appointment as director of the Fraunhofer FEP and Professor in Electrical Engineering at the TU Dresden. Her research interests lie in fundamental questions in physics and chemistry within the context of real applications.

# Speakers for the 2026 TechCon

## Fano-Resonant Optical Coatings and Applications

(Wednesday, April 29, 2026 | 8:40 AM)

### Chunlei Guo

*University of Rochester, Rochester, NY*

Despite being a century-old technology, optical coating comprises only a handful of types. Here, I introduce a new class of optical coatings exhibiting photonic Fano resonance, termed Fano-resonant optical coatings (FROCs). FROCs consist of just four thin layers, yet they outperform coatings that require orders of magnitude more layers and thickness. I will also discuss a range of applications enabled by FROCs' superior properties, including beam splitter filters that transmit and reflect the same color, full-gamut high-purity structural colors, and efficient solar energy harvesting systems.



**Chunlei Guo** is a Professor in The Institute of Optics and Physics at University of Rochester, where his research spans femtosecond laser-matter interactions to nanophotonics. His work at Rochester led to the discovery of a range of highly functionalized materials, including the so-called black and colored metals, super-hydrophilic/-hydrophobic surfaces, and advanced coatings. These discoveries have gained extensive public interest, including 4 features in The New York Times. He is a Fellow of the American Physical Society, Optica, and Int'l Academy of Photonics and Laser Engineering. He served as the Editor-in-Chief for the recently released 2nd edition of the CRC Handbook of Laser Technology and Applications, which serves as the most comprehensive handbook in the field of lasers to date.

## From Poisoned Targets to Healthy Models: The Quest for Parameters

(Monday, April 27, 2026 | 1:10 PM)

### Diederik Depla

*Ghent University, Ghent, Belgium*

The conceptual simplicity of reactive magnetron sputtering facilitates the description of global trends in process curves characteristic of reactive magnetron sputtering. However, achieving a quantitative description of these trends through simulations remains far more challenging, as the critical bottleneck of every modelling effort lies in the determination of accurate input parameters. Following a brief introduction to the RSD model, this paper provides an overview of several experimental methodologies designed to extract the parameters essential for its implementation. A central parameter in any thin-film deposition technique is the deposition rate. While its determination in metallic mode is relatively straightforward, the task becomes substantially more complex in poisoned mode due to the limited availability of sputter yield data for oxides. Our experiments reveal that in poisoned mode sputter yields exhibit a pronounced dependence on process conditions. Monte Carlo simulations, moreover, uncover a remarkable material-independent correlation between reported partial yields for oxides and experimentally measured yields in poisoned mode. Another crucial quantity, the ion-induced electron yield, can only be reliably determined experimentally, even for metals. By employing empirical scaling laws, however, it becomes feasible to estimate these yields under poisoned-mode conditions. The strong influence of chemisorption on the

electron yield explains the discharge voltage behaviour in metallic mode. The influence of chemisorption on target poisoning emerges as the next major challenge, particularly as a novel strategy to control the reactive sputtering process exposes discrepancies between the current formulation of the model and experimental observations. Nevertheless, this measuring strategy provides compelling evidence that the RSD model's prediction of double hysteresis behaviour is fundamentally correct.



**Diederik Depla** has received his Master Degree in Chemistry in 1991 at Ghent University (Belgium). In 1996 he promoted with a PhD thesis in Solid State Chemistry on spray drying of precursors for superconductors. After a short period as senior scientist in the Department of Solid State Sciences, in 1999 he became assistant professor. As full professor, he is now head of the research group "Dedicated research on advanced films and targets (DRAFT)" in the same physics department. Two fundamental research questions has driven his research up until now. The first question is how deposition conditions influence film growth, while the second question probes for the impact of reactive gas addition on the magnetron process. Under his guidance, the research group has distinguished itself from the traditional, technological approach, and has set an own course seeking for answers on the two above mentioned fundamental questions, translated in the mission statement of the group: "At DRAFT we want to become the recognized leader in the understanding of thin film growth by reactive magnetron sputtering, and to enjoy research by experiments and simulations." This "target on growth" approach has resulted in several publications in peer reviewed papers. He authored the book "Magnetrons, reactive gases and sputtering." He co-initiated in 2000 the successful RSD conference series. He received the Bill Sproul Award from AVS for "his persistence to unravel the fundamental processes during reactive magnetron sputtering." More details on his research can be found on [www.draft.ugent.be](http://www.draft.ugent.be).

**Advanced Multifunctional Coatings: Integrating Vacuum and Electrochemical Deposition for Sustainable Energy, Surface Protection, and Biomedical Innovation**



*Advanced Active and Inactive Coating Technologies to Improve Life and Safety of Lithium-Ion Batteries for Automotive and Grid Applications*

**Khalil Amine**  
Argonne National Laboratory, Argonne, IL



*Powder Atomic Layer Deposition at the Commercial Scale for Batteries and Other Applications*

**Christopher Gump**  
Forge Nano, Thornton, CO

**Advances in Thin Film Sensor Technologies: Materials Design and Applications**



*Self-Assembled Oxide-Metal and Nitride-Metal Nanocomposite Thin Films for Metamaterials and Optical Sensing Applications*

**Di Zhang**  
University of Texas at Arlington, Arlington, TX

**Atomic Layer Processing (ALP)**



*Directional Atomic Layer Etching of Lithium Niobate Using Bromine Plasma Chemistry*

**Austin Minnich**  
California Institute of Technology, Pasadena, CA



*Hydrazine-Enabled Atomic Layer Deposition of TiN for High Performance DRAM Electrodes*

**Walter Hernandez<sup>1</sup>, Adrian Alvarez<sup>1</sup>, Lorenzo Diaz<sup>1</sup>, Amy Ross<sup>2</sup>, Andrew Kummel<sup>2</sup>**  
<sup>1</sup>RASIRC, Inc., San Diego, CA  
<sup>2</sup>University of California, San Diego, San Diego, CA

**Characterization, Testing, and Failure Analysis of Thin Films, Coatings, and Engineered Surfaces**



*New Developments in Spectroscopic Ellipsometry*

**James N. Hilfiker**, Nina Hong, Rafał Korlacki, Jeffrey S. Hale, Joel Mohrmann, Jeremy Van Derslice

J.A. Woollam Company, Lincoln, NE



*Surface Coating, Treatment, and Analysis of Materials for Medical Devices*

**Bernard Li**  
Medtronic Neuromodulation, Minneapolis, MN

**Coatings and Processes for Biomedical Applications**



*From Telecom to Biotech—Closing the Loop with Thin Films*

**Matthias Wagner**  
Cambridge, MA

**Coatings for Energy Conversion and Related Processes**



*Yttrium Oxyhydride-Based Photochromic Coatings for Window Applications: From Lab Scale Films to Large Scale Roll-to-Roll Production*

**S. Zh. Karazhanov**  
Institute for Energy Technology, Kjeller, Norway and University of Latvia, Riga, Latvia

**Digital Transformation through Artificial Intelligence, Machine Learning, Simulation, and Data Science in the Thin Film Industry**



*Navigating Digital Transformation in an Established Industrial Environment: Data, Simulation, and the Strategic Road Ahead*

**Alexander Ebner**, Stephan Trassl, Martin Egginger  
Hueck Folien GmbH, Baumgartenberg, Austria

# Invited Speakers



## **Vacuum Barrier Coatings for Mono-Material Films: Developments in Equipment and Process Technology for SiO<sub>x</sub> and AlO<sub>x</sub>**

Markus Piwko, Jörg Faber, Carsten Deus, Andreas Steinbach  
VON ARDENNE GmbH, Dresden, Germany

## **High Power Impulse Magnetron Sputtering – HIPIMS**



### **Beyond Traditional High Power Impulse Magnetron Sputtering**

U. Heydenreich<sup>1</sup>, D. A. L. Loch<sup>1</sup>, A. W. Oniszczyk<sup>2</sup>, R. Bandorf<sup>3</sup>, A.P. Ehasarian<sup>4</sup>, W. Gajewski<sup>2</sup>

<sup>1</sup>Trumpf Hüttinger GmbH + Co. K.G, Freiburg, Germany

<sup>2</sup>Trumpf Huettinger Sp. z.o.o., Warszawa, Poland

<sup>3</sup>Fraunhofer Institute for Surface Engineering and Thin Films IST, Braunschweig, Germany

<sup>4</sup>Sheffield Hallam University, Sheffield, United Kingdom



### **Towards Reactive-Gas-Less Sputtering of Functional Nitrides – The Role of Metal Ions in Plasma-Activated Reactive Environments**

Tetsuhide Shimizu<sup>1</sup>, Caroline Hain<sup>2,3</sup>, Yuji Oshida<sup>1,2</sup>, Eva Vogt<sup>2</sup>, Thomas Nelis<sup>2,3</sup>, Johann Michler<sup>2</sup>

<sup>1</sup>Tokyo Metropolitan University, Tokyo, Japan

<sup>2</sup>Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland

<sup>3</sup>Bern University of Applied Sciences, Biel/Bienne, Switzerland

## **Large Area Advanced Packaging and Integrated Photonics**



### **PVD Driven Innovations in Advanced Packaging: Enabling Next Generation Heterogeneous Integration**

Manuela Junghähnel

Fraunhofer IZM-ASSID, Moritzburg, Germany

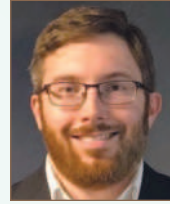


### **Optical Engines and Thin Film Nanophotonics**

Mohamed ElKabbash

University of Arizona, Tucson, AZ

## **Large Area Coatings**



### **Mass Production of Inorganic and Organic Coatings for Display Cover Glass**

Brian S. Holsclaw

Corning, Inc., Corning, NY

## **Optical Coatings**



### **State of the Art of Amorphous IBS Coatings Improvements for the Gravitational Wave Detectors and Other Applications**

L. Pinard, C. Michel, B. Sassolas, J. DeGallaix, D.

Forest, M. Granata, L. Mereni, J. Teillon

Laboratoire des Matériaux Avancés – CNRS,

Villeurbanne, France



### **Recent Innovations in Optical Coating Design Software**

Michael Trubetskov<sup>1,2</sup>

<sup>1</sup>OTF Studio GmbH, Garching, Germany

<sup>2</sup>Max Planck Institute of Quantum Optics, Garching, Germany

## **Organic and Perovskite Electronics**



### **Achieving Compositional Tunability in Perovskite Thin Films by Physical Vapour Deposition**

Jay B. Patel

King's College London, London, United Kingdom

## **Photonically-Induced Transformations of Thin Films and Surfaces**



### **Laser Spike Annealing of Thin Films for Neuromorphic Device Applications**

Drake R. Austin

AV Incorporated/U.S. Air Force Research Laboratory, Wright-Patterson AFB, OH



### **Process-Based Programming of Spatially Varying Nanocarbon Properties by Laser Writing for Multifunctional Flexible Devices**

Mostafa Bedewy

University of Pittsburgh, Pittsburgh, PA

## Photonically-Induced Transformations of Thin Films and Surfaces *cont'd*



**Engineering Thin-Film Optoelectronic and Ferroelectric Materials via High-Throughput Laser Processing**

**Brian Everhart, Drake Austin, Jose Flores, Michael Newburger, Deep Jariwala, Troy Olsson, Nicholas Glavin**

AV Incorporated/U.S. Air Force Research Laboratory, Wright-Patterson AFB, OH



**Photonic Post-Processing of Printed Inks on Flexible Substrates**

**Mark Poliks**

SUNY Binghamton University, Binghamton, NY



**Additive Nanomanufacturing and Dry Printing Electronics and Functional Devices**

**Masoud Mahjouri-Samani**

Auburn University, Auburn, AL

## Plasma Processing and Diagnostics



**Continuous PVD Roll-to-Roll Precoated Material for Fuel Cells: Towards Volume Production of Metallic Bipolar Plates and Interconnects for PEM/SOFC Applications**

**G. Sjöblom**

Alleima, Sandviken, Sweden

## Process Monitoring, Control, and Automation



**Beyond Ion Gauges: Wide-Range, Maintenance-Free Vacuum Sensing for Modern Coating Systems**

**Caspar Ask Christiansen, Ole Wenzel**

Sens4 A/S, Hellebaek, Denmark



**Transforming Process Innovation through Advanced Chamber Pressure Control**

**Pedro Reyero Santiago, Preston Ernst, Dominic Mayrhofer**

VAT Vakuumventile AG, Haag, Switzerland

## Protective, Tribological, and Decorative Coatings



**PVD Coatings for Tribological Applications – Known Paths and New Perspectives**

**K. Bobzin, C. Kalscheuer**

RWTH Aachen University, Aachen, Germany



**Target Microstructure and Coated Tool Lifetime**

**Christos Pernagidis<sup>1</sup>, Marian Harsani<sup>2</sup>, Anas Ghailane<sup>1</sup>**

<sup>1</sup>Avaluxe International GmbH, Fürth, Germany

<sup>2</sup>Staton, srl, Turany, Slovakia

## Quantum Computing



**Complete Hamiltonian Control with Multi-Mode Superconducting Circuits**

**Vivek Maurya, Daria Kowsari, Kumar Saurav, Rajamani Vijayaraghavan, Daniel Lidar, Eli Levenson-Falk**

University of Southern California, Los Angeles, CA

## Thin Film Contributions for the Hydrogen Economy



**Hydrogen: Boon or Bane? Opportunities and Challenges in Coating Solutions for Industrial Scale-Up**

**Nazlim Bagcivan**

Schaeffler Technologies AG & Co. KG, Herzogenaurach, German

## WebTech Roll-to-Roll Technologies and Innovation



**Optimizing Barrier Performance in Formed Flexible Bags**

**Todd Fayne**

Pepsi Co, Plano, TX

The modern SVC era has been the most intense period of innovation, member engagement, event management, and technology focus in the SVC's sixty-nine year history. The SVC is completely focused on our stakeholders, developing an inclusive culture of listening, adopting, refining, and improving approaches that enhance the unique networking and problem solving culture that sets the SVC apart from all other professional organizations. In the spirit of this culture, we are proud to announce, "Colloquium at the TechCon"; a series of focused, technical conversations that address critical industrial needs. This meeting format was first introduced at the 2022 TechCon in Long Beach and based on the extremely positive feedback, we are bringing it back yet again in 2026!

Each topical workshop will be anchored by a technical presentation or series of presentations that will frame a follow-on roundtable discussion. Subject matter experts will be acting as moderators to facilitate discussions and promote interaction and networking between the attendees. As part tutorial, part problem solving, and part networking, the "Colloquium at the TechCon" represents the vanguard of the SVC's efforts to enhance and redefine the technical conference experience. These workshops will be open to all of our conference attendees and exhibitors.

The time and location of all Colloquium @ TechCon will be posted in the Final Program; stay tuned!



Monday April 27, 2026 | Sponsored by the SVC's Large Area Coatings Technical Advisory Committee

### Giving New Life to Old Coaters: Modernization of Coaters for New Demands

**Moderator: Aneliia Wäckerlin** (Deputy Head R&D, Glas Trösch)

**Event Description:** Retrofitting existing coaters is an attractive approach to upgrade process capabilities to modern standards while avoiding the significant capital expenditure of replacing an entire coater platform. Retrofit projects, however, require careful planning and expertise in order to deliver the expected results.



Aneliia Wäckerlin

This interactive event offers a perfect opportunity to learn, discuss and hear perspectives on your specific question. We will start with three concise presentations where our panelists will share their individual perspectives on the following critical topics:

- End user experience on upgrading equipment and considerations for adapting a new coating process
- Running more complex products with higher throughput and uptime on aging coater equipment
- ROI of upgrading hardware based on uptime and throughput

We will then open the discussion to questions and perspectives from the audience. Bring your challenging questions with you, and we will do our best to find the answers together!

**Panelists:**

— **Kyle Schuberg**  
Coating Process Engineering Manager  
Gentex Corporation



Kyle Schuberg

— **Wilmert De Bosscher**  
Chief Technology Officer  
Soleras Advanced Coatings BV



Wilmert De Bosscher

— **Ken Nauman**  
Director of Global Business Development  
Sputtering Components



Ken Nauman



## The Challenge of Transitioning to Sustainable Surface Engineering Practices

**Moderator: Jochen M. Schneider** (Professor of Materials Chemistry, RWTH Aachen University) research focuses on the quantum-guided design of thin film materials, including sustainability-relevant aspects. He has held academic appointments in Germany, the UK, the USA, and Sweden, and has received numerous awards and fellowships. Throughout his career, he has served in several international advisory roles and supervised more than 40 Ph.D. students.



Jochen M. Schneider

**Event Description:** The Sustainable Surface Engineering Colloquium, held as part of TechCon 2026 of the Society of Vacuum Coaters (SVC), will serve as a dedicated forum for researchers, engineers, technologists, and industry leaders to examine and advance the state of the art in environmentally responsible surface technologies. This event aims to highlight not only emerging technical innovations but also the broader systems-level thinking required to make surface engineering processes more resource-efficient, resilient, and aligned with global sustainability goals.

The session will open with an impulse talk by Prof. Christoph Herrmann of Fraunhofer IST, Braunschweig, Germany, whose research focuses on life-cycle engineering and sustainable manufacturing. His presentation will provide a conceptual and analytical foundation for understanding how sustainability metrics, process modeling, and circular-economy principles can be applied within the field of vacuum coating and surface modification.

Following this keynote impulse, four concise pitch presentations will be delivered by distinguished panel members, each representing a different segment of the international surface engineering community:

- **André Anders** (Plasma Engineering LLC, USA)
- **Klaus Böbel** (Oerlikon, Liechtenstein)
- **Tetsuya Takahashi** (Kobelco, Japan)
- **Christoph Schiffrers** (CemeCon AG, Germany)

These short pitches will introduce diverse perspectives—from plasma process innovation and industrial coating solutions to equipment design and sustainable production strategies—thereby establishing a multidisciplinary springboard for further discussion.

The subsequent interactive dialogue between the audience and the panel, moderated by Jochen Schneider of RWTH Aachen University, will delve deeply into the opportunities and challenges associated with transitioning toward more sustainable surface engineering practices. Topics will include actionable pathways for reducing energy consumption, strengthening sustainability education across stakeholder groups, integrating circular-economy concepts, and improving the environmental footprint of coating technologies across their full life cycle. Through this collective exchange, the colloquium aims to underline the crucial role of continuous research, cross-sector collaboration, and forward-looking innovation in shaping a more sustainable future for the global surface engineering community.

### Panelists:

— **Christoph Herrmann** *Fraunhofer Institute for Surface Engineering and Thin Films (IST):* is Director of the Fraunhofer Institute for Surface Engineering and Thin Films (IST) in Braunschweig and a full professor for Sustainable Production & Life Cycle Engineering at the Technische Universität Braunschweig. He leads work on sustainable manufacturing, life-cycle and surface technologies, integrating ecological, economic, and production-engineering perspectives.



Christoph Herrmann

— **André Anders** *Plasma Engineering LLC:* investigates plasmas and has developed plasma-based coating processes for many years. He worked in Berlin (Germany), Berkeley (California), was an Institute Director and Professor of Applied Physics in Leipzig (Germany), and he is now again in California as the Founder/CEO of Plasma Engineering LLC. André was elected as one of the Directors of AVS for the 2026/27 period.



André Anders

# Colloquium 2.4

— **Klaus Böbel** *Oerlikon:*

is an R&D Portfolio Manager at Oerlikon, where he drives innovation in surface, plasma, and coating technologies. Prior to joining Oerlikon, he spent more than two decades advancing plasma and PVD/DLC coating solutions in senior R&D roles at Bosch Manufacturing Solutions. His current work integrates sustainability considerations into technology development, contributing to Oerlikon's efforts toward more energy- and resource-efficient surface solutions.



Klaus Böbel

— **Tetsuya Takahashi** *Kobe Steel, Ltd. (KOBELCO):*

is a senior engineer at Kobe Steel, Ltd. (KOBELCO), Japan, specializing in plasma-based coating technologies and advanced materials. He earned his doctorate in engineering from RWTH Aachen University in Germany. While his main expertise is in hard coatings, he is currently exploring novel applications of vacuum deposition technologies as part of new business creation initiatives.



Tetsuya Takahashi

— **Christoph Schiffers** *CemeCon AG:*

has been with CemeCon AG, the pioneer of HiPIMS coatings for cutting tools, for more than 15 years. HiPIMS has become the new standard in the cutting tool world because of the dense coating structure, the super smooth surface, and the enormous flexibility. The tremendous HiPIMS success story in the cutting tools industry suggests that HiPIMS will replace traditional techniques for high value products within a few years. Christoph holds a Dr.-Ing. in mechanical engineering from RWTH Aachen University.



Christoph Schiffers



# Colloquium 2.4

## The Innovation Spiral of HIPIMS Towards Industrialization

**Moderator: Ton Hurkmans** (Chief Technology Officer (CTO), IHI Ionbond Group)

**Event Description:** High Power Impulse Magnetron Sputtering (HIPIMS) has emerged as a transformative technology in the field of thin film deposition, driving a dynamic industrial innovation spiral starting from advanced manufacturing tools and expanding into architectural glass, semiconductor and spreading into antimicrobial and sensor applications as more companies and research groups engage with the technology each year. The industrialization of HIPIMS is characterized by iterative advancements in plasma physics, power supply engineering, process control, and design of thin film and coating materials which enabled the realization of dense, adherent coatings with tailored properties, surpassing the limitations of conventional sputtering techniques.



Ton Hurkmans

A panel of experts with long track record in plasma science, industrial production and applied research will engage with the audience in an active discourse on current topics ranging from latest academic advances in plasma, process and materials science, and deployment in process development to latest industrial trends and hot topics. We are currently filling the panel seats with renowned experts from academia, applied research, and industry.

### Panelists:

- **Ralf Bandorf**  
Head of Group, Optical and Electrical Systems  
*Fraunhofer IST*
- **Arutiun Ehasarian**  
Head of National HIPIMS Technology Center  
*Sheffield Hallam University*
- **Uwe Heydenreich**  
Key Account Manager  
*TRUMPF Hüttinger GmbH + Co.*
- **Daniel Loch**  
Application Engineer  
*TRUMPF Hüttinger GmbH + Co.*
- **Dermot P. Monaghan**  
Managing Director  
*Gencoa Ltd*
- **Tetsuhide Shimizu**  
Associate Professor  
*Tokyo Metropolitan University*



Ralf Bandorf



Arutiun Ehasarian



Uwe Heydenreich



Daniel Loch



Dermot P. Monaghan



Tetsuhide Shimizu



## A Manufacturer's Guide to Coatings for High Power Lasers

**Moderators:** **Jay Anzellotti** (IDEX, Inc.); **Colin Harthcock** (Lawrence Livermore National Laboratory (LLNL)); **David Sanchez** (Materion Electronic Material)

**Event Description:** Markets for high LIDT (Laser-Induced Damage Threshold) coatings are expanding rapidly, driven by critical applications in medical lasers, industrial lasers, laser fusion R&D, semiconductor fabrication and metrology, and high-energy defense systems. As these technologies scale, coatings inevitably face damage and require replacement, creating an urgent need for manufacturers to develop methods that extend coating lifetime while managing costs.

Key factory processes will be at the center of our dialogue, including substrate cleaning, cleanroom design and protocol, chamber design and maintenance, deposition dynamics, and post-coating handling and packaging. Each of these steps plays a vital role in achieving coatings that withstand high-energy environments and deliver consistent performance over time.

We invite you to join us and share your challenges in meeting technical specifications and scaling production. This colloquium will bring together experts, innovators, and manufacturers to discuss these challenges in an open forum. The event will consist of several short presentations by a team of experts, followed by a facilitated round-table discussion.

### Moderators:

- **Jay Anzellotti** spent his early career as a hands-on engineer depositing optical coatings for high power lasers. He then held coating development roles in various areas including industrial lighting, optical communications, fluorescence instrumentation, and semiconductor inspection tools. Jay is currently the Director of Filter Design and Coating Engineering in the Optical Filters business at IDEX, Inc. Jay has a BS from the University of Rochester.
- **Colin Harthcock** is currently a group lead at Lawrence Livermore National Laboratory (LLNL). He previously served as a staff scientist and before that a postdoctoral fellow. Colin's work has focused on understanding defect causes in coatings and optical materials for the NIF program, which is pushing the boundaries of laser power to achieve nuclear fusion. Colin has a PhD in chemical physics at Oregon State University.
- **David Sanchez** has been Chemical Engineer and Materials Scientist for 29 years. He was motivated by firsthand use of advanced thin film optics and technologies in the US Marine Corps. He completed his dual BS degree in California and went to work at OCLI/Flex in 1996 as a Process Engineer. He was classically trained in thin film technology from the best in the emerging field. David has leveraged his experience and built a wide range of skills as a materials and applications scientist and engineer. For more than 28 years he has led many efforts to develop key materials and now supports the complete line of specialty inorganic materials, precious metals, and rare metals for Materion Electronic Material's PVD, energy and semiconductor customers.



Jay Anzellotti



Colin Harthcock



David Sanchez

# Colloquium 2.4

## Decorative PVD Coatings - Trends and Challenges

**Moderator: Dr.-Ing. Martin Engels** (Global Process Engineer Deco & Sports, IHI Ionbond Group)

**Event Description:** Decorative Physical Vapor Deposition (PVD) coatings have been a growing market for decades and the number of applications, as well as the request for new colors, are still growing. The markets which are being addressed range from sanitary parts to automotive interior/exterior or luxury articles like watches or golf clubs, and of course numerous other articles which can be coated.



Martin Engels

The application of a decorative PVD coating not only gives parts a special appearance but also improves the wear resistance and therefore durability significantly. In the past, interest and availability were mainly focused on grey scale colors ranging from light silver to deep black or bright colors in the range of light gold to copper or brass. Nowadays, additional to the classic features of decorative PVD coatings, the interest of customers is expanding to more special colors like blue, green, dark brown, etc. Other than that, there is a significantly rising demand for additional properties like corrosion protection as well as easy-to-clean or anti-fingerprint behavior. However, new colors and coating properties are also arising with new challenges for the production of a decorative PVD coating. These might range from the need for novel process technology like HiPIMS to additional process steps.

In order to give the TechCon participants a deeper insight into the unique world of decorative coatings and their trends and challenges as well as ideas to address them, we have gathered a team of experts, who will cover a range from coating machine manufacturers, process simulation, and job coaters. Our panelists will start with a brief introduction of themselves and their companies. This will be followed by insights on the history of decorative PVD, the present state of the art and their vision about the future of decorative coatings. The audience is highly welcome to interactively discuss questions and to share experiences with our panelists and will have the unique opportunity to connect with the experts for further cooperations and knowledge exchange.

### Panelists:

— **M.Sc. Bryce Anton** (Director of Technology) *Vapor Technologies, Inc.*

26 years of experience in PVD thin film development, primarily in decorative coatings for various consumer product industries (home products, automotive, sporting goods, etc.). Currently holds 11 patents in this field.

— **Dr. Ton Hurkmans** (Chief Technology Officer - CTO) *IHI Ionbond Group*

Key person in the use of PVD coatings for decorative applications since mid-90's. From pioneering to first applications and the full integration of new PVD production lines at in-house coating facilities. Currently responsible for all coating innovations across all business segments.

— **Brian T. Nevill** (President & Owner) *West Coast PVD, Inc.*

40 years experience in the vacuum coating industry including IVD and PVD technology for decorative & functional applications. Owner and operator of PVD coating centers for 25 years.

— **Adam Obrusnik, PhD** (CEO, head of consulting, co-founder) *PlasmaSolve s.r.o.*

More than 10 years of experience in plasma-based processes, especially PVD, as well as plasma simulation and diagnostics. Worked as independent consultant before co-founding PlasmaSolve company, which amongst others focusses on simulation of decorative PVD processes.

— **M.Sc. Chinmay Trivedi** (Process Technology Manager) *IHI Hauser Techno Coating B.V.*

Over a decade of experience in decorative applications with a strong understanding of the essential steps for successful technology integration, including conventional sputtering, Arc, PACV and HiPIMS processes.



Bryce Anton



Brian T. Nevill



Adam Obrusnik



Ton Hurkmans



Chinmay Trivedi



## Rigidly Flexible - Exploring the Middle Ground in R2R Substrate Applications

**Moderator: Liz Josephson** (VP of Commercial Operations, INTELLIVATION LLC)



Liz Josephson

**Event Description:** Roll-to-Roll (R2R) coating promises “economy of scale” for a myriad of high-volume applications, whether it is barrier layers for food packaging or flexible electronics. In many cases, the end use does not actually require “flexibility” – think of displays – nor a start-to-finish roll-to-roll process – think of sheet-based chip attached for hybrid electronics – to still make R2R a convincing manufacturing approach. However, experience and detailed knowledge is required to avoid costly failures and reap the full benefits of this powerful yet sometimes “mysterious” manufacturing methodology.

This Colloquium will examine the opportunities and challenges of R2R manufacturing processes, and will touch on substrate considerations, coating material options (vacuum- or wet-coating), issues like multi-pass, lamination and singulation operations and other critical topics that are crucial to successful production.

The interactive nature of this moderated panel discussion welcomes questions from the audience that may be addressed by a panel of subject matter experts, or in discussion with other practitioners in the audience.

We invite you to bring your questions, challenges or success stories that help take the “mystery” out of this powerful high-volume manufacturing methodology!

### Panelists:

- **Andy Jack**  
Sales Director  
*Emerson & Renwick Ltd*
- **Joe Papalia**  
President  
*DTI Films*
- **Mike Simmons**  
President & CEO  
*INTELLIVATION LLC*
- **Chris Stoessel**  
Innovation Consultant and Partner  
*Stoessel Consulting/SputterTek LLC*



Andy Jack



Joe Papalia



Mike Simmons



Chris Stoessel

# Colloquium 2.4



# Technical Advisory Committees (TAC)

## Advanced Multifunctional Coatings: Integrating Vacuum and Electrochemical Deposition for Sustainable Energy, Surface Protection, and Biomedical Innovations

*(Joint Session with The Electrochemical Society)*

### Session Organizers (ECS):

**Luca Magagnin**, Politecnico Milano 1863, luca.magagnin@polimi.it

**Wei Tong**, Lawrence Berkeley National Laboratory, weitong@lbl.gov

### Session Organizers (SVC):

**Jones Alami**, Mohammed VI Polytechnic University, jones.alami@um6p.ma

**Mohammed Makha**, Mohammed VI Polytechnic University, mohammed.makha@um6p.ma

**Chris Stoessel**, Stoessel Consulting, cstoessel@stoesselconsulting.net

## Advances in Thin Film Sensor Technologies: Materials Design, and Applications

### TAC Co-Chairs:

**Jason Hrebik**, Kurt J. Lesker Company, jasonh@lesker.com

**Jacob Lee**, University of Texas at Arlington, seunghyun.lee@uta.edu

**Binbin Weng**, University of Oklahoma, binbinweng@ou.edu

## Atomic Layer Processing (ALP)

### TAC Co-Chairs:

**Sara Harris**, Forge Nano, Inc., sharris@forgenano.com

**Ivan Maximov**, Lund University, ivan.maximov@ftf.lth.se

**Craig Outten**, Universal Display Corp., coutten@verizon.net

**Matt Weimer**, Forge Nano, Inc., mweimer@forgenano.com

## Characterization, Testing and Failure Analysis of Thin Films, Coatings and Engineered Surfaces

### TAC Co-Chairs:

**Matthew Linford**, Brigham Young University, mrlinford@chem.byu.edu

**Dehau Yang**, Ebatco, dyang@ebatco.com

**Oleg Zabeida**, Polytechnique Montréal, oleg.zabeida@polymtl.ca

## Coatings and Processes for Biomedical Applications

### TAC Co-Chairs:

**Jeff Hettinger**, Rowan University, hettinger@rowan.edu

**Natalie Page**, Lila Sciences, npage@lila.ai

**Gregory Taylor**, Lawrence Livermore National Laboratory, taylor275@llnl.gov

**Chinmay Trivedi**, IHI Hauzer Techno Coating B.V., ctrivedi@hauzer.nl

## Coatings for Energy Conversion and Related Processes

### TAC Co-Chairs:

**Volker Sittinger**, Fraunhofer IST, Germany, volker.sittinger@ist.fraunhofer.de

**Roel Bosch**, IHI Hauzer Techno Coating B.V., RBosch@hauzer.nl

**Ric Shimshock**, General Atomics, ric.shimshock@ga.com

**Stefan Saager**, Fraunhofer FEP, stefan.saager@fep.fraunhofer.de

## Digital Transformation through Artificial Intelligence, Machine Learning, Simulation, and Data Science in the Thin Film Industry

### TAC Co-Chairs:

**Holger Gerdes**, Fraunhofer IST, holger.gerdes@ist.fraunhofer.de

**Paul Nizenkov**, boltzplatz - numerical plasma dynamics GmbH, nizenkov@boltzplatz.eu

## Electron Beam Processes

### TAC Chair:

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**Chris Punshon**, Cambridge Vacuum Engineering, cpunshon@camvaceng.com

**Jason Van Sluytman**, Honeywell, Jason.VanSluytman@honeywell.com

## Emerging and Translational Technologies and Applications

### TAC Chair:

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**Lad Bardos**, Uppsala University, ladislav.bardos@angstrom.uu.se

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**Jörg Neidhardt**, Fraunhofer FEP, joerg.neidhardt@fep.fraunhofer.de

**Frank Papa**, GP Plasma, frank@gpplasma.com

## Exhibitor Innovator Showcase

### Session Organizers:

**Jason Hrebik**, Kurt J. Lesker Company, jasonh@lesker.com

**Frank Zimone**, Society of Vacuum Coaters, frank.zimone@svc.org

## High-Power Impulse Magnetron Sputtering – HIPIMS

### TAC Chair:

**Ralf Bandorf**, Fraunhofer IST, ralf.bandorf@ist.fraunhofer.de

**Arutun P. Ehasarian**, Sheffield Hallam University, a.ehasarian@shu.ac.uk

**Frank Papa**, GP Plasma, frank@gpplasma.com

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**Brian Jurczyk**, Starfire Industries, bjurczyk@starfireindustries.com

**Ivan Fernandez**, Nano4Energy, ivan.fernandez@nano4energy.eu

# Technical Advisory Committees (TAC)

## Large Area Advanced Packaging and Integrated Photonics

### TAC Chair:

**Patrick Morse**, Arizona Thin Film Research LLC, pmorse@azthinfilm.com

## Large Area Coatings

### TAC Chair:

**Aneliia Wäckerlin**, Glas Trösch, a.waeckerlin@glastroesch.ch

### Assistant TAC Chairs:

**Brent Boyce**, Guardian Industries Corp., bboyce@guardian.com

**Marcus Frank**, Bühler Group, marcus.frank@buhlergroup.com

**Brian Holsclaw**, Corning Inc., holsclawb@corning.com

**Ken Nauman**, SCI /Bühler, knauman@sputteringcomponents.com

**Kyle Schuberg**, Gentex, kyle.schuberg@gentex.com Optical Coatings

## Optical Coatings

### TAC Co-Chairs:

**Jay Anzellotti**, IDEX Health & Science, janzellotti@idexcorp.com

**Vivek Gupta**, Meta/Facebook, guptavivek23@fb.com

**Nadja Felde**, Fraunhofer IOF, nadja.felde@iof.fraunhofer.de

**Rajiv Pethe**, Vital Chemicals USA, Rajiv.Pethe@VitalChemUSA.com

## Organic and Perovskite Electronics

### TAC Co-Chairs:

**Mike Miller**, Angstrom Engineering Inc.,

mmiller@angstromengineering.com

**John Naylor**, Kurt J. Lesker Company, johnn@lesker.com

**Paul Sullivan**, Kurt J. Lesker Company, paulsu@lesker.com

**Akhil Vohra**, Angstrom Engineering Inc., avohra@angstromengineering.com

## Photonically-Induced Transformations of Thin Films and Surfaces

### TAC Co-Chairs:

**Christopher Muratore**, University of Dayton, cmuratore1@udayton.edu

**Jörg Neidhardt**, Fraunhofer FEP, joerg.neidhardt@fep.fraunhofer.de

## Plasma Processing and Diagnostics

### TAC Chairs:

**Hana Baránková**, Uppsala University, hana.barankova@angstrom.uu.se

**Oleg Zabeida**, Polytechnique Montréal, oleg.zabeida@polymtl.ca

### Assistant TAC Chairs:

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**Craig Outten**, Universal Display, coutten@verizon.net

## Processing Monitoring, Control, and Automation

### TAC Chair:

**Martynas Audronis**, Nova Fabrica Ltd., martynas@novafabrica.biz

### TAC Co-Chairs:

**Gun Hwan Lee**, Korea Institute of Materials Science, ghlee@kims.re.kr

**Edmund Schuengel**, VAT Vakuumventile AG, e.schuengel@vat.ch

## Protective, Tribological, and Decorative Coatings

### TAC Co-Chairs:

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**Juan Manuel Gonzalez Carmona**, Centro de Ingenieria y Desarrollo

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**Jolanta Klemberg-Sapieha**, Polytechnique Montréal, jsapieha@polymtl.ca

**Christoph Schiffers**, CemeCon, christoph.schiffers@cemecon.de

**Christian Stein**, Fraunhofer IST, christian.stein@ist.fraunhofer.de

## Quantum Computing

### TAC Co-Chairs:

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**John Naylor**, Kurt J Lesker Company, johnn@lesker.com

**Akhil Vohra**, Angstrom Engineerin Inc., avohra@angstromengineering.com

## Thin Film Contributions for the Hydrogen Economy

### TAC Co-Chairs:

**Ralf Bandorf**, Fraunhofer IST, ralf.bandorf@ist.fraunhofer.de

**Herbert Gabriel**, PVT Plasma und Vakuum Technik GmbH,

h.gabriel@pvtvacuum.de

**Lucia Mendizabal**, Tekniker, lucia.mendizabal@tekniker.es

## WebTech Roll-to-Roll Technologies and Innovation

### TAC Chair:

**Chris Stoessel**, Stoessel Consulting, cstoessel@stoesselconsulting.net

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**Hazel Assender**, University of Oxford (Begbroke),

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**Robert Malay**, Intellivation, rmalay@intellivation.com

**Michael Mücke**, Bühler/Leybold Optics, michael.muecke@buhlergroup.com

**Joe Papalia**, Deposition Technology Innovations, jpapalia@dtifilms.com

**Jerry Wu**, Enpack Composite, wufujw@163.com

# Technical Program

## DAYS AT A GLANCE

SUNDAY • APRIL 26 | MONDAY • APRIL 27 | TUESDAY • APRIL 28

### Sunday At A Glance

#### Special Events

- **SVC Board of Directors/Committee Chairs Meeting** 2:30 PM – 5:30 PM **Hyatt Shoreline A/B**
- **Moderators Training Session** 5:30 PM – 6:00 PM  
**LBCC Room 104B**
- **SVC Board of Directors Meet and Greet** 7:00 PM – 8:00 PM  
**Hyatt Seaview Rotunda** (invitation only)
- **Young Members Meeting** 6:30 PM – 10:00 PM  
**Hyatt Shoreline A/B**

### Monday At A Glance

#### Special Events

- **Technology Forum Breakfasts** 7:30 AM – 8:30 AM
  - Atmospheric Plasma Technology **LBCC Room 102A**
  - Coatings and Surface Engineering for Medical Applications **LBCC Room 102B**
  - High Power Impulse Magnetron Sputtering (HIPIMS) **LBCC Room 102C**
  - Photonically Induced Surface and Thin Film Processing **Hyatt Seaview A**
  - Durability Evaluation of Thin Film Coatings: Testing Methods and Practical Implications **Hyatt Seaview B**
  - Transparent Conductive Materials (TCM) **Hyatt Seaview C**
- **Sunset Meeting Forums** 5:20 PM – 6:20 PM
  - Advanced Deposition Coating Hardware **LBCC Room 102A**
  - Advanced Multifunctional Coatings: Integrating Vacuum and Electrochemical Deposition **LBCC Room 102B**
  - Materials for PVD Processes **LBCC Room 102C**
  - Characterization, Testing, and Failure Analysis of Thin Films, Coatings and Engineered Surfaces **Hyatt Seaview B**
  - Large-Area Advanced Packaging and Integrated Photonics **Hyatt Seaview C**
- **SVC Annual Business Meeting** 8:40 AM – 9:10 AM  
**LBCC Room 104B**
- **SVC 2026 TechCon Conference Introduction** 9:20 AM – 9:30 AM  
**LBCC Room 104B**
- **Colloquium: Giving New Life to Old Coaters: Modernization of Coaters for New Demands** 10:30 AM – 11:50 AM **LBCC Room 104A**
- **Colloquium: The Challenge of Transitioning to Sustainable Surface Engineering Practices** 2:00 PM – 3:20 PM **LBCC Room 101B**
- **Colloquium: The Innovation Spiral of HIPIMS Towards Industrialization** 3:40 PM – 5:00 PM **LBCC Room 101A**
- **Women in the SVC Meeting** 6:30 PM – 8:00 PM **LBCC Room 104B**
- **SVC Foundation Casino Night** 8:00 PM – 10:00 PM  
**Hyatt Beacon A/B**

### Technical Sessions

- **Keynote Speaker Christoph Herrmann** Plasma Technologies for Precision and Large-Scale Surface Engineering 9:30 AM – 10:10 AM **LBCC Room 104B**
- **Large Area Coatings** AM/PM **LBCC Room 104A**
- **Characterization, Testing, and Failure Analysis of Thin Films, Coatings, and Engineered Surfaces** AM/PM **LBCC Room 104B**
- **Plasma Processing and Diagnostics** AM/PM **LBCC Room 104C**
- **High Power Impulse Magnetron Sputtering (HIPIMS)** AM/PM **LBCC Room 101A**
- **Advanced Multifunctional Coatings: Integrating Vacuum and Electrochemical Deposition for Sustainable Energy, Surface Protection, and Biomedical Innovations** (Joint Session with ECS) AM **LBCC Room 101B**
- **Donald Mattox Tutorial Speaker Diederik Depla** From Poisoned Targets to Healthy Models: The Quest for Parameters 1:20 PM – 2:00 PM **LBCC Room 104B**
- **Coatings and Processes for Biomedical Applications** PM **LBCC Room 104C**
- **Quantum Computing** PM **LBCC Room 104C**
- **Photonically-Induced Transformations of Thin Films and Surfaces** PM **LBCC Room 101B**

### Tuesday At A Glance

#### Special Events

- **Technology Forum Breakfasts** 7:30 AM – 8:30 AM
  - Leak Detection - Issues and Practices **LBCC Room 102A**
  - Industrial Challenges: Uptime, Yield, and Consistency **LBCC Room 102B**
  - Magnetron Sputtering **LBCC Room 102C**
  - Process Monitoring and Control **Hyatt Seaview A**
  - Energy Conversion and Storage **Hyatt Seaview B**
  - ALD for Optics **Hyatt Seaview C**
- **Awards Ceremony** 8:40 AM – 9:20 AM **LBCC Room 104B**
- **B2B Exhibitor Coffee Hour** (closed event) 10:00 AM – 11:00 AM  
**LBCC Exhibit Hall A**
- **Exhibit Hall Open** 11:00 AM – 6:00 PM **LBCC Exhibit Hall A**
- **Specialty Coffee Hour** 11:00 AM – 12:00 PM **LBCC Exhibit Hall A**
- **Welcome/Exhibit Snacks** 1:30 PM – 2:15 PM **LBCC Exhibit Hall A**
- **Welcome/Exhibit Reception** 5:00 PM – 6:00 PM  
**LBCC Exhibit Hall A**

### Technical Sessions

- **Advanced Multifunctional Coatings: Integrating Vacuum and Electrochemical Deposition for Sustainable Energy, Surface Protection, and Biomedical Innovations** (Joint Session with ECS) AM **LBCC Room 101B**
- **Organic and Perovskite Electronics** AM **LBCC Room 104B**
- **Process Monitoring, Control, and Automation** AM **LBCC Room 104C**

# Technical Program

## DAYS AT A GLANCE

TUESDAY • APRIL 28 | WEDNESDAY • APRIL 29

- **High Power Impulse Magnetron Sputtering (HIPIMS)** AM **LBCC Room 101A**
- **Thin Film Contributions to the Hydrogen Economy** AM **LBCC Room 101B**
- **Exhibitor Innovator Showcase** AM **LBCC Room 104A**
- **Poster Session** 2:30 PM – 4:30 PM **LBCC Exhibit Hall A**

### Wednesday At A Glance

#### Special Events

- **Technical Advisory Committee Breakfast Meetings**  
7:00 AM – 8:30 AM
  - (1) Large Area Coatings and (2) Large Area Advanced Packaging and Integrated Photonics **LBCC Room 102A**
  - (1) High Power Impulse Magnetron Sputtering, (2) Protective, Tribological and Decorative Coatings and (3) Thin Film Contributions for the Hydrogen Economy **LBCC Room 102B**
  - (1) Plasma Processing and Diagnostics and (2) Atomic Layer Processing (ALP) **LBCC Room 102C**
  - (1) Emerging and Translational Technologies and Applications and (2) WebTech Roll-to-Roll Technologies and Innovation **LBCC Room 103A**
  - (1) Optical Coatings and (2) Photonically-Induced Transformations of Thin Films and Surfaces **LBCC Room 103B**
  - (1) Coatings for Energy Conversion and Related Processes and (2) Electron Beam Processes **Hyatt Seaview A**
  - (1) Advanced Multifunctional Coatings and (2) Advances in Thin Film Sensor Technologies **Hyatt Seaview B**

- (1) Digital Transformation through Artificial Intelligence, Machine Learning, Simulation, and Data Science in the Thin Film Industry and (2) Process Monitoring, Control, and Automation **Hyatt Seaview C**
- (1) Characterization, Testing, and Failure Analysis of Thin Films and (2) Coatings and Processes for Biomedical Applications **Hyatt Shoreline A**
- (1) Organic and Perovskite Electronics and (2) Quantum Computing **Hyatt Shoreline B**
- **Exhibitor Meeting** (closed event) 9:00 AM – 10:00 AM **LBCC Exhibit Hall A**
- **Exhibit Hall Open** 10:00 AM – 4:00 PM **LBCC Exhibit Hall A**
- **Beer Blast** 2:00 PM – 4:00 PM **LBCC Exhibit Hall A**
- **Announcement of 5k and Best Poster Winners** 3:00 PM **LBCC Exhibit Hall A**
- **Program Committee Meeting** 5:30 PM – 7:30 PM **Hyatt Shoreline A/B** (invitation only)

#### Technical Sessions

- **Keynote Speaker Chunlei Guo** *Fano-Resonant Optical Coatings and Applications* 8:40 AM – 9:20 AM **LBCC Room 104B**
- **Exhibitor Innovator Showcase** AM **LBCC Room 104A**
- **Emerging and Translational Technologies and Applications** AM **LBCC Room 104B**
- **Process Monitoring, Control, and Automation** AM **LBCC Room 104C**
- **Optical Coatings** AM **LBCC Room 101A**
- **Large Area Advanced Packaging and Integrated Photonics** AM **LBCC Room 101B**



### THURSDAY • APRIL 30

#### Thursday At A Glance

##### Special Events

- **Technology Forum Breakfasts** 7:30 AM – 8:30 AM
  - Surface Engineering for the Hydrogen Economy **LBCC Room 102A**
  - Protective, Reflective, and Decorative Coatings **LBCC Room 102B**
  - Digital Transformation of Industrial Deposition Processes **LBCC Room 102C**
  - Optical Thin Film Design **Hyatt Seaview A**
  - Aligning Deposition Process Requirements with Vacuum System Layout and Design **Hyatt Seaview B**
  - Electron Beam Processes **Hyatt Seaview C**
- **Sunset Meeting Forums** 6:00 PM – 7:00 PM
  - Post-Processing of Vacuum-Coated Roll-to-Roll Products **LBCC Room 102A**
  - Thin Film Sensors **LBCC Room 102B**
  - Tribological and Diamond-Like Coatings **LBCC Room 102C**
  - Fabrication and Performance of Optical Coatings **Hyatt Seaview A**
  - Coatings for Thin Film Photovoltaics **Hyatt Seaview B**
  - CVD and ALD Processing **Hyatt Seaview C**
- **Colloquium: A Manufacturer's Guide to Coatings for High Power Lasers** 11:10 AM – 12:30 PM **LBCC Room 101A**
- **Colloquium: Decorative PVD Coatings – Trends and Challenges** 1:10 PM – 2:50 PM **LBCC Room 101B**

- **Colloquium: Rigidly Flexible – Exploring the Middle Ground in R2R Substrate Applications** 2:50 PM – 4:10 PM **LBCC Room 104A**
- **Young Members Group/Farewell Social** 7:20 PM – 8:50 PM **Hyatt Pool Area**

##### Technical Sessions

- **Keynote Speaker Elizabeth von Hauff** Plasma Technologies for Precision and Large-Scale Surface Engineering 8:40 AM – 9:20 AM **LBCC Room 104B**
- **Electron Beam Processes** AM **LBCC Room 104A**
- **Atomic Layer Processing** AM **LBCC Room 104B**
- **Digital Transformation of Industrial Deposition Processes** AM **LBCC Room 104C**
- **Optical Coatings** AM/PM **LBCC Room 101A**
- **Protective, Tribological, and Decorative Coatings** AM/PM **LBCC Room 101B**
- **Photonically-Induced Transformations of Thin Films and Surfaces** PM **LBCC Room 104A**
- **Advances in Thin Film Sensor Technologies: Materials Design and Applications** PM **LBCC Room 104B**
- **Coatings for Energy Conversion and Related Processes** PM **LBCC Room 104C**
- **WebTech Roll-to-Roll Coatings for High-End Applications** PM **LBCC Room 104A**



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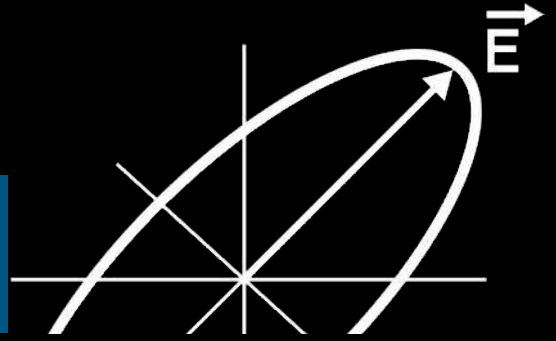
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**Angstrom Sciences, Inc.** 220  
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**Apex Measurement Systems** 518  
<https://www.apexmeasurementsystems.com/>

Apex Measurement Systems is a Sales and Service distribution company specializing in quality control and process analytics. Core technology is spectroscopy, XRF, UV/Vis, NIR and IR; and sheet resistance. This includes spectrometer systems from Carl Zeiss Spectroscopy: color, coating thickness measurements, as well as bulk measurements.

**Arzuffi PVD srl** 218  
<https://www.arzuffisrl.it/en>

For over 30 years, Arzuffi has been designing and manufacturing custom PVD and PECVD plants for high vacuum coatings. We offer high productivity solutions, ideal for complex materials and geometries, with advanced technologies such as sputtering, evaporation, and plasma, for sectors such as automotive, cosmetics, and design.

**Association for Roll-to-Roll Converters** 508  
<https://www.rolltoroll.org>

The Association for Roll-to-Roll Converters (ARC), formerly AIM-CAL, serves as the global forum for the flexible metallizing, coating and laminating industry by providing resources, services and information. ARC collects and distributes information to increase industry knowledge, while fostering an environment that builds relationships and a spirit of cooperation between member companies worldwide.

**Avaluxe International GmbH** 319  
<https://en.avaluxe.de/>

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**boltzplatz - numerical plasma dynamics GmbH** 421  
<https://boltzplatz.eu/>

boltzplatz is an engineering service provider, offering numerical simulations of rarefied gas and plasma dynamics. These reduce the need for costly prototypes and extensive testing, saving both time and cost. Potential applications include the prediction of the performance of vacuum pumps, determination of the gas and plasma distribution in vacuum coating equipment, and the characterization of electron and ion beam properties.

**Bricada, Inc.** 418  
<https://www.bricada-inc.com>

Bricada, Inc. provides high-vacuum wafer-transfer loadlocks, UHV chambers, and precision magnetic manipulators for semiconductor and thin-film applications. We offer custom engineering, UHV-grade fabrication, assembly, and testing, as well as maintenance and refurbishment services. With deep vacuum expertise and responsive support, Bricada delivers reliable, tailored solutions for OEMs, research labs, and advanced manufacturing environments.

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**California Nanotechnologies, Inc.**

109

<https://www.calnanocorp.com>

California Nanotechnologies helps engineers and scientists turn advanced powders into fully dense parts and custom alloy targets for PVD and other coating processes. We specialize in powder processing, diffusion bonding, and developing novel compositions for high-performance applications. From R&D to scalable production, we accelerate innovation in coatings, aerospace, defense, energy, and semiconductors. Stop by our booth to see real examples and discuss your toughest materials challenges.

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CemeCon is recognized worldwide as the industry leader in HiPIMS and diamond coatings. Providing cutting tool manufacturers with the coating service, coating equipment, process technology, and training needed for success. CemeCon is well-positioned to support customers almost anywhere in the world with facilities in the United States, Europe, and Asia.

**China Ningbo Sen Ao Target Technology Co., Ltd**

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Coastal Instruments is a North Carolina based company started in 1980. We are a service oriented company, dedicated to developing long term partnerships with our customers throughout the world. Our technology, reliability and integrity have made us the recognized leader in the calibration of flow and pressure measurement devices.

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<https://covalent.com/>

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## E+R Group 113

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Combining our engineering knowledge from machinery build and substrate handling, we offer vacuum machinery coating platforms expertly designed to the application – meeting and surpassing our customers' needs.

These platforms include pilot scale vacuum coaters for R&D purposes or small-scale production, through to matched production machinery for customers looking to expand the width and productivity of an application with market potential.

This equipment offers higher productivity rates, lower costs, plus differentiating specifications and apps.

## Ebara Technologies, Inc. 519

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EBARA is a global innovator and local provider of vacuum pumps and advanced exhaust management solutions for the vacuum coating, semiconductor, photovoltaic, thin-film, and R&D industries. Our offerings include dry vacuum pumps, turbomolecular pumps, point-of-use abatement systems, precision chillers, field services, and parts cleaning services.

## Ebatco 226

<https://www.ebatco.com>

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## Ecoclean, Inc. 202

<https://ecoclean-group.us/>

Ecoclean meets relevant industry quality standards and cleaning objectives with its individually configurable part cleaning systems – whether the aim is to clean mass-produced items in bulk, precision parts arranged in defined position, or large-size components made of metal, plastics or ceramics.

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<https://www.edwardsvacuum.com>

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**European Society of Thin Films - EFDS** 119  
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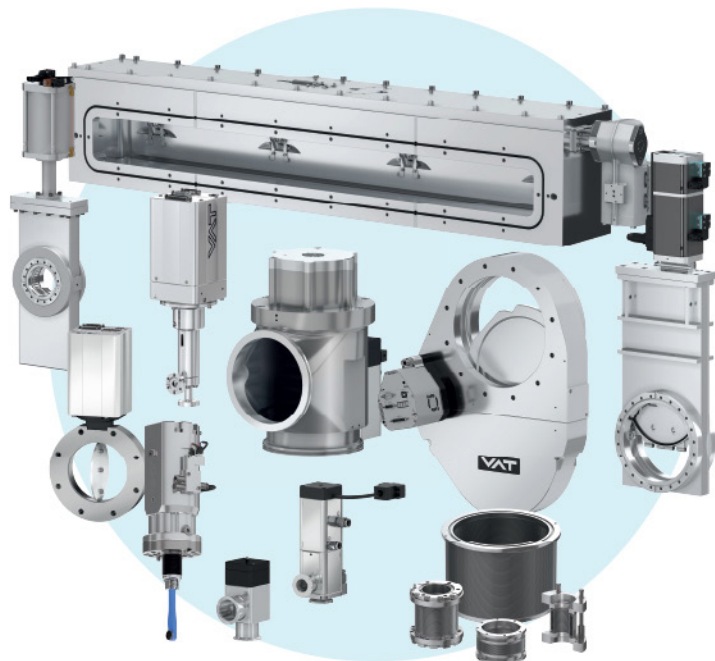
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**Geowell Vacuum Co, Ltd.** 118

<https://www.geowellscroll.com>

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**GfE Fremat GmbH** 228

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**GP Plasma** 108

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**Guangdong Huasheng Nanotechnology Co., Ltd** 329

<https://www.hscoat.com/>

Guangdong Huasheng Nanotechnology Co., Ltd. is a leading coating solution supplier in China. We specialize in the research, development, production, and sales of cutting-edge vacuum coating equipment. Our expertise also extends to the application and innovation of coating processing technology, providing professional services and technical support for essential industrial equipment such as cutting tools, parts, and electronic components worldwide.

**Guangdong Huicheng Vacuum Technology Co., Ltd.** 527

<https://www.hcvacuum.com/>

Guangdong Huicheng Vacuum Technology Co., Ltd. (Stock Code: 301392.SZ) is a professional supplier of vacuum coating equipment and magnetron sputtering systems, providing advanced thin-film solutions for glass, automotive, electronics, and photovoltaic industries.

With strong R&D capabilities and patented technologies, Huicheng delivers reliable and high-performance coating solutions to global customers.

**HEMO Cleaning Systems USA Inc.** 420

<https://www.hemo-usa.com>

Manufacturer of cleaning and degreasing systems prior to the coating process.

**Hine Automation LLC** 214

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**HORIBA Instruments, Inc.** 404

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**HVA, LLC** 308  
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**IHI Hauzer Techno Coating BV** 231  
<https://www.hauzertechnocoating.com/en/>

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**Intellivation** 314  
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Intellivation is a leading manufacturer of vacuum web coating systems featuring innovative design and powerful automation. Our products serve high tech application areas including flexible electronics, thin film batteries, superconductors, solar, optical coatings, medical devices, defense, biosensors and more. Our on-site application laboratory is equipped with an R2R600 and an R2R330 roll-to-roll coater enabling us to provide thin film coating development services on flexible substrates.

**Ionautics** 525  
<https://www.ionautics.com>

Ionautics is the leading provider of High-Power Impulse Magnetron Sputtering (HiPIMS) technology and process know how. Our latest industrial power supply HiPSTER-25, a state-of-the-art HiPIMS unit featuring advanced process control capabilities, including integrated multi-unit synchronization, efficient arc suppression, constant peak-current mode, burst mode, and constant-power operation. All our HiPSTER series can be equipped with our recent reactive HiPIMS process control.

**Ionbond - IHI Group** 209  
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Ionbond provides advanced, eco-friendly coatings using PVD,

PACVD, and CVD technologies. Serving industries like aerospace, medical, automotive, and tooling, we deliver reliable solutions for high and low-volume production. With 30+ global centers across Europe, North America, and Asia, we combine local accessibility with global expertise. As part of the IHI Group, a leading Japanese industrial company, we benefit from extensive R&D in energy, industrial machinery, and aircraft engines, driving innovation and quality.

**J.A. Woollam** 201  
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J.A. Woollam offers a wide range of spectroscopic ellipsometers for non-destructive materials characterization, including thin film thickness of single and multilayer films, refractive index, optical constants n&k, alloy composition, in-situ growth/etch rates, and more. We have instruments available for research and manufacturing metrology. J.A. Woollam instruments include table-top, in-line, and in-situ models covering spectral ranges from the vacuum ultraviolet to far infrared.

**Kaufman & Robinson** 107  
*TECHCON SPONSOR*

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KRI can assist you with your film depositions, etching processes, and material modifications. We manufacture a wide range

## Plasma Enhanced Spatial Atomic Layer Deposition/Etch Systems

Kurdex Corporation introduces PE-SALD10 for production of 200 mm wafer. This will add to Kurdex PE-SALD line of Plasma Enhanced Atomic Layer Deposition systems include: ALD4, ALD6, ALD8, ALD9 and ALD10 for 100mm, 200mm, 300 mm wafers, 14" x 20" substrates and 300 mm wide Roll-to-Roll web processors. Kurdex ALD Systems are offered with Vortex Deposition Technology for high deposition rate of up to 10 A/Sec at low temperatures down to room temperature. These Systems are also capable of depositing precise multi layer optical film stacks. High degree of flexibility, small foot print, coupled with user friendly control system, makes Kurdex SALD systems ideal for exploring amazing world of ALD films at angstrom level precision.



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**Kurdex**  
Corporation  
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**KURDEX CORPORATION**  
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SUNNYVALE, CA 94089  
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of ion/plasma sources, electron neutralizers and power supply controllers. KRI's product technology includes high current grid-less plasma sources, filamentless RFICP gridded sources, low energy electron sources and automated power supply controllers. Over 40 years of experience, makes us the source you can trust.

**Kolzer** 120  
<https://www.kolzer.us>

Kolzer is a global manufacturer of advanced PVD (Physical Vapor Deposition) coating systems, with more than 70 years of experience in vacuum coating technologies. Our equipment is designed to deliver high performance coatings that enhance surface durability, appearance and functional properties across a wide range of industrial applications.

Kolzer systems are engineered to meet the rigorous demands of modern manufacturing, combining robust mechanical design, high productivity and energy efficient operation.

**Korvus Technology** 229  
<https://www.korvustech.com>

Korvus Technology manufactures highly modular thin film deposition PVD systems. The company's HEX series offers an unmatched level of user control and customization. designed to incorporate the latest thin film technologies and performance into single chamber and cluster systems.

With over 20 years experiences and 200+ installations world-

wide, HEX systems are utilized in academic and industry settings to advance research into novel thin film materials.

**Kurdex Corporation** 116  
*Gold Corporate Sponsor* <https://www.kurdex.com>

Supplier of Large Area Vacuum Deposition and Etch Equipment for R&D, Pilot and High-Volume Manufacturing. Products include Sputtering, Evaporation, PECVD, Spatial ALD, ARC-CVD, and Plasma Etch Tools. Standard and Custom Systems configured for In-Line, Cluster and R2R with Full Automation. Substrates sizes up to 2300MM Rigid or Flex, Wafers, Glass Sheets or Roll of Flexible Materials. Applications Lab for Contract Coating Services, DOE and Technology Development.

**Kurt J. Lesker Company** 101  
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We are on the cutting edge of thin film technology and innovation, while offering unparalleled customer support. R&D and Production automated PVD and ALD thin film deposition tools for the optical, photonics, and photovoltaic industries. Chambers; thin film deposition sources; pure targets & materials; R&D circular and production linear sputter sources; pumps and oils; vacuum valves.

**LabVac** 614  
*TECHCON SPONSOR* <https://www.labvac.com>

Labvac is focused on meeting your vacuum system needs and specializes in servicing labs, research centers, and general vacuum.

**Leybold Vacuum** 415  
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We are the pioneers in vacuum innovations. Since 1850, we have been at the forefront of technological breakthroughs that have been at the heart of our competencies. Our comprehensive product line makes us one of the most successful suppliers of vacuum technology to the world market.

**Lightwind** 327  
<https://www.lightwindcorp.com>

Lightwind provides spectroscopy solutions for manufacturing, delivering real-time chemical analysis for CVD, ALD, plasma etch, and other vacuum processes. The Lightwind L Series uses OES instead of fragile RGA filaments, enabling reliable monitoring of corrosive chemistries. Applications include leak detection, ALD precursor tracking, etch endpoint, chamber matching, and general vacuum diagnostics.

**Luxel Corporation** 617  
<https://luxel.com/>

Built on Luxel's 50 years of free-standing nano- and micro-thin film expertise, the RADAK® furnace is a precision thermal evaporation source engineered for high-purity, highly uniform deposition. With temperature control from below 100 °C to 1500 °C, RADAK® furnaces support CIGS photovoltaics, OLED devices, organics, metals, and other cutting-edge materials research across

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- Mobility
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IHI GROUP

# Exhibitors-At-A-Glance

R&D, pilot, and production vacuum systems.

**Magnum Steel Works** 412  
<https://www.magnumsteelworks.com>

A high-tech, large capacity, metal fabricator who specializes in vacuum chambers and other welding and machining for the coating industries.

**Megatech Limited** 419  
<https://www.megatech.com>

Megatech Limited is the largest independent supplier of equipment and services to the semiconductor and thin film industries in the UK. Established in 1973, the company has built a well-founded reputation for the supply of quality products, in-depth technical expertise, and excellent customer service.

**Midwest Tungsten Service** 102  
*Silver Sustaining Corporate Sponsor* <https://www.tungsten.com>

Midwest Tungsten Service manufactures a wide variety of vacuum evaporation sources including filaments, boats, electron beam and ion beam sources from tungsten, molybdenum and tantalum. MTS also supplies tungsten, molybdenum and tantalum raw material and custom machines parts from these metals. MTS offers its own brand of silicone diffusion pump fluid and TIG welding electrodes. We carry an extensive inventory to assure prompt delivery.

**MKS Inc.** 309  
*Silver Sustaining Corporate Sponsor* <https://www.mks.com>

MKS Inc. (NASDAQ: MKSI) enables technologies that transform our world. We deliver foundational technology solutions to leading edge semiconductor manufacturing, electronics and packaging, and specialty industrial applications. We apply our broad science and engineering capabilities to create instruments, subsystems, systems, process control solutions and specialty chemicals technology that improve process performance, optimize productivity and enable unique innovations for many of the world's leading technology and industrial companies. [www.mks.com](http://www.mks.com)

**Moorfield & Teer Coatings** 720  
<https://www.teercoatings.co.uk>

Visit us to see a route from thin-film process development to real-world coating performance.

Moorfield designs and manufactures compact PVD deposition, Etch and process systems for academia, R&D and pilot-scale work supported globally and cited in over 500 publications.

Teer Coatings offers a range of PVD coating equipment, using patented closed-field technology, as well as specialising in clusterbeam technology, to support the needs of R&D through to large industrial scale demand.

**Moretec Inc.** 331  
<https://www.moretec-inc.com/>

Headquartered in Japan, Moretec Group specializes in magnetic fluid feedthroughs (Ferrofluidic seals), offering high-quality

products with fast delivery. Leveraging advanced equipment and analysis technologies, we ensure cleanliness, durability, and reliability in ferrofluid feedthroughs, audio ferrofluids, and mesh materials. Our solutions are trusted in demanding fields like semiconductor manufacturing and vacuum coating industries, where precision and performance are critical.

**Mustang Vacuum Systems** 406  
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At Mustang, we provide our customers with the best coatings solutions for your specific needs. As experts in PVD (Physical Vapor Deposition) thin-film deposition technology, we build some of the best vacuum coating equipment on the planet, and provide vacuum metallizing and other coating services. Our superior coatings, including DLC (Diamond-Like Carbon) hard coatings and our proprietary SP4 high performance tribological coating, help our customers stand out in their fields.

**NANOVEA** 128  
<https://nanovea.com/>

NANOVEA manufactures surface characterization and mechanical testing instruments for advanced materials, coatings, and thin films.

Portfolio includes 3D Optical Profilometers, Nanoindentation Systems, Tribometers, and Scratch Testers for measuring thickness, adhesion, wear, friction, hardness, and surface roughness. Supporting PVD, CVD, ALD, and vacuum coatings.

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**NAVAC, Inc**

412

<https://navacvacuum.com>

NAVAC is the global leader in rotary vane vacuum pump manufacturing. With a legacy of over three decades at the forefront of technological advancements in vacuum pumps, NAVAC has consistently set the industry standard for innovation and quality. As the world's largest rotary vane pump manufacturer, we take pride in empowering our customers in perfecting their systems with cutting-edge vacuum technology.

**Nova Fabrica Ltd.**

114

<https://www.novafabrica.biz/>

Nova Fabrica develop, manufacture and provide critical subsystems, components, metrology services and personnel training to OEM vacuum coating, thin-film, plasma processing system manufacturers and end-users alike.

Our products include plasma emission monitoring systems, reactive gas control systems, residual and process gas analysis systems, deposition rate measurement systems, optical and sheet resistance measurement systems, plant-wide supervisory process control system and related components

**Oerlikon**

620

<https://www.oerlikon.com/balzers/us/en/>

Oerlikon (SIX: OERL) is a global leader in surface technologies and advanced materials. With a unique portfolio spanning surface engineering, high-performance materials, coating equipment and components, we make products better by enhancing performance, efficiency and sustainability. Oerlikon serves a wide range of industries, including aerospace, automotive, defense, energy, medical, luxury and semiconductors.

**Osaka Vacuum USA**

621

<https://www.osakavacuum.co.jp/en>

Manufacturer of vacuum pumps and systems. Products include turbo molecular, dry, oil-sealed rotary, liquid ring and roots vacuum pumps, ejectors and vacuum equipment. Applications include general vacuum exhaust, deuterate, defoam, suction, forming, sterilization, freezing, drying, etching, heat processing, gas replacement, distillation, packaging, polymerization and leak detecting. Markets served include semiconductor, solar, iron and steel, textile, food, oil and atomic energy.

**Pfeiffer Vacuum+Fab Solutions**

524

<https://www.pfeiffer-vacuum.com/us/en/>

Pfeiffer Vacuum+Fab Solutions provides specialized vacuum solutions that ensure precise control over thin film coating, minimizing contamination and enabling accurate control of thickness, uniformity, and material properties for high-quality coatings. We can offer you solutions that includes all you need, like backing pumps, turbopumps, gauges, leak detectors and chambers.

**Plansee**

215

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Strong Metals for Strong Products: Plansee is the world's largest manufacturer of powder metallurgically produced high performance components. We are the leading provider of products and solutions for a wide range of applications. Since 1939, Plansee USA has been our centre of excellence and our hub for the production and distribution of semi-finished molybdenum and tungsten products in North America. Founded in 1921 in Reutte, Plansee is now a global company with 12 manufacturing sites.

**Plasma Process Group, Inc.**

305

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<https://www.plasmaprocessgroup.com>

ION BEAM SOLUTIONS

Established in 2003, Plasma Process Group provides the highest quality equipment and service to the ion beam sputter (IBS) coating industry. We offer solutions ranging from pragmatic to innovative. Our industry standard products are widely used in the vacuum coating world. We have been helping customers with their ion beam equipment for over 20 years.

**Process Materials, Inc.**

213

*Silver Sustaining Corporate Sponsor*

<https://www.processmaterials.com>

At Process Materials Inc, we believe our future rests on our corporate values and company culture. Earning a global reputation for our commitment to quality and service, we have maintained these values as part of our daily operations since 1997.

Process Materials Inc. is a leading supplier of consumable materials serving the thin film industry. Products include planar & cylindrical sputtering targets, backing plates and many other e-beam materials.

**Protec Surface Technologies Srl**

216

<https://www.protectim.com>

Founded in 1996, Protec Surface Technologies has become a benchmark in the field of high vacuum deposition systems, specializing in both Physical Vapour Deposition (PVD) and Plasma Enhanced Chemical Vapour Deposition (PECVD). With three decades of experience, the company has consistently pushed the boundaries of surface coating technologies, delivering advanced solutions that cater to a diverse range of industries.

**ProTech Materials, Inc.**

306

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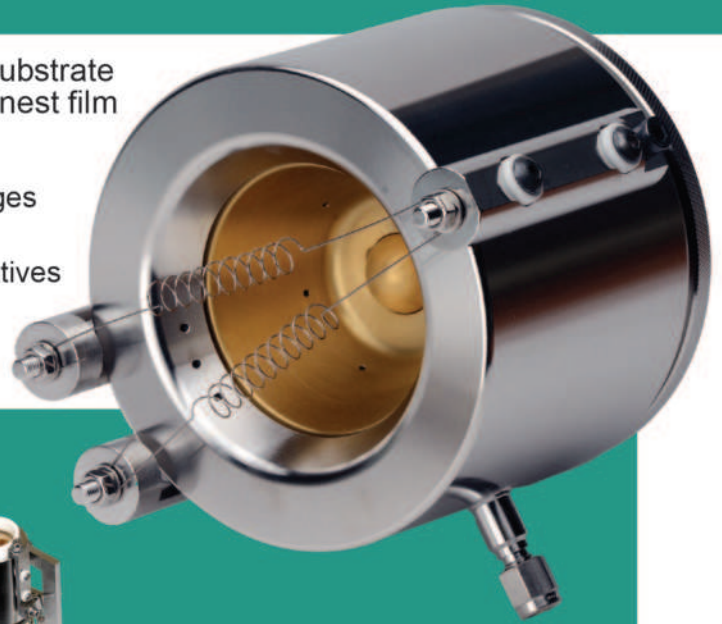
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Protech Materials supports a wide range of applications with precision-engineered materials and scalable manufacturing capabilities. From early development through full production, our team provides reliable quality, technical expertise, and responsive support to help you meet performance requirements with confidence.

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Real-time thin film thickness and deposition rate monitoring and control. Reliable and economical instrumentation, sensors, and quartz crystals



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Fast pump down, with the efficient trapping of water vapor in the chamber, is a key requirement for maximum efficiency in thin film coating. Telemark has a large selection of water vapor cryochillers.

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 PTB was established in 1995 and is a leading North American provider of refurbished vacuum pumps and vacuum pump repair services to the semiconductor fabrication, PV solar, nano-technology, MEMS, vacuum coating, aerospace and defense, research and development and general industrial industries. Founded on our guiding principle of "What YOU Need, When YOU Need It!" we have established a track record of being there when our customers need support in a timely manner and at a reasonable price.
- R. D. Mathis Company** 513  
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- Rocky Brook Associates, Inc** 307  
<https://www.rockybrookinc.com>  
 Founded in 1973 by the Sawyer family, and now under 3rd generation family leadership, Rocky Brook Associates, Inc. (RBA) is a vertically integrated manufacturer of high-purity materials for vacuum coating and base metals for gold-filled bonded products. Specializing in 99.995%+ OFE copper, RBA produces backing plates, sputtering targets, tile assemblies, crucible liners, and custom components with complete in-house manufacturing from raw material through finished machining.
- RSC - Reliable Silver Corporation** 317  
*Silver+ Corporate Sponsor* <https://www.reliablecorp.com>  
 RSC manufactures and sells a broad range of specialty metal sputter targets and evaporation pellets made from gold, silver, platinum, palladium, nickel, and metal oxide materials, all in the USA. Our PVD related products play a critical role in depositing thin film coatings on low-E glass, flexible web coatings, medical coatings, semiconductors, and newer technologies focused on fusion energy and the hydrogen economy.
- RUBIG Industrial Furnaces** 424  
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 RUBIG Industrial Furnaces has been producing customized heat treatment plants since 1992. The know-how reflected in the construction of the furnaces has been gained in the in-house job shop. With the new brand generations MICROPULS® and GASCON, RUBIG has reached new heights in nitriding and coating. RUBIG is supplying big automotive companies, the aviation industry as well as small commercial job shops in more than 40 countries.
- SCI Engineered Materials** 413  
<https://sciengineeredmaterials.com/>  
 SCI Engineered Materials is a global supplier and manufacturer of advanced materials for PVD Thin Film applications. Through partnerships with end users and OEM's, SCI develops innovative and customized solutions enabling commercial success. SCI Engineered Materials provides high quality physical vapor deposition (PVD) materials to manufacturers, original equipment manufacturers (OEM's), research institutes and universities around the world since 1987.
- Semicore Equipment, Inc** 207  
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 Semicore designs and builds PVD and custom vacuum systems for electronics, optics, solar, medical, MEMS, automotive, defense, and research. We offer high-performance sputtering and evaporation tools for R&D and production, coating substrates like wafers, plastics, glass, ceramics, and metals. Our modular platforms range from benchtop to fully automated multi-chamber systems, each backed by expert support, robust automation, and advanced process control.
- Sierra Applied Sciences** 512  
*Silver Sustaining Corporate Sponsor* <https://www.sierraapplied.com>  
 Sierra Applied Sciences, was founded over 30 years ago by our current CEO/CTO, Barry Manley. Today the company is the world leader for magnetron sputtering technology for all deposition applications. Sierra Applied's cathodes offer the highest target utilization available in the industry today. All these attributes, along with Sierra Applied's pre-purchase performance & best price guarantee, makes it easy to buy. Simply put, Sierra Applied is the only name for magnetron cathode technology!
- Sputtering Components** 425  
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 From the vacuum coating floor to your production line, we know the cost of downtime—and how to prevent it. Built on decades in the industry, our rotary sputtering cathodes and components run reliably across thousands of installations worldwide, day after day.  
 Whether you're depositing thin films on architectural glass, displays and touchscreens, solar modules, automotive parts, decorative hardware, optics, or electronics, our sputtering systems deliver performance you can trust.
- Starfire Industries** 108  
<https://www.starfireindustries.com>  
 Starfire Industries is a pioneer in the field of HIPIMS and Microwave Surface Wave technology. Our next generation HIPIMS technology with a positive super kick allows us to take your PVD processes into the future. Our novel microwave technology can be used for etching, surface modification and PECVD both in

# Exhibitors-At-A-Glance

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SCM manufactures materials for Thin Films and PVD, specializing in sputtering targets, crucibles, e-beam gun and ion implanter source parts, and a variety of backing plates. Our products have been used in semiconductors, solar panels, electronic and optical instruments. Materials range from aluminum to zinc, including alloys, oxides, and precious metals. We also provide a complete CNC shop with various on-site services, including bonding, refining, and reclamation services.

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<https://www.tarfilm.com>

Tarfilm Hi-Tech Co., Ltd. is a group company driven by scientific and technological innovation, specializing in the research, development, and production of high-quality vacuum coating targets for the global market. Your targets are our target, we strive to become the word leading sputtering target manufacturer.

## **TDK Lambda Americas** 115

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TDK-Lambda Americas, Inc. is a leading manufacturer of:

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For more information, please visit <https://www.us.lambda.tdk.com>.

## **Tecport Optics, Inc.** 315

<https://www.tecportoptics.com>

Tecport Optics, Inc. is an industry-leading manufacturer of top-quality Thin Film Deposition Systems servicing the Precision Optical, Imaging, Medical, & Telecommunication industries. Sophisticated, yet user-friendly systems employ leading technology such as Plasma Assisted Deposition, Diamond-Like Carbon, PECVD, & Ion Beam Sputtering. Systems are custom built & pre-configured for your process and your volume. Coating systems are production-ready within one week after installation.

## **Teledyne Hastings Instruments** 328

<https://www.teledyne-hi.com>

Teledyne Hastings Instruments (THI) is a trusted manufacturer of a wide range of quality vacuum instruments and gas mass flow instruments.

## **Telemark** 100

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Come see Telemark's new generation of Ion Beam Systems. TELEMARk offers evaporation components, including electron beam sources, e-beam power supplies, cryochillers, magnetic fluid feedthrus, quartz crystal deposition controllers, ion beam systems, and related accessories. Products featured at the 2026 TechCon include a new generation of ion beam systems, cryochillers, and a new vacuum controller to upgrade older systems.

## **Testbourne Ltd** 330


<https://www.testbourne.com>

Testbourne Ltd has been supplying high purity metals, alloys & compounds to industries and R&D such as Semiconductors, Thin-films, Electronics, and Electro-optics for over 40 years. With Testbourne you will find an extensive selection of materials available in fabricated forms including sputtering targets, evaporation materials, powders, wire, rods & sheets. We also accommodate any custom requirements you may have.

## **Texas Capitol Semiconductor** 516

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We service and repair a broad range of Turbomolecular (Turbo) and Cryogenic (Cryo) Pumps. Since 1993, TCS has remained at the forefront of high vacuum technology by specializing in the complexities of magnetic levitation technology and controller circuitry and software.

**Thermal Conductive Bonding, Inc.** 203  
<https://www.tcbonding.com>

Thermal Conductive Bonding, Inc. offers thin film coating, sputtering target bonding, Nanofoil®, Nanobond® and elastomer bonding and molding services. All of our processes are meticulously engineered to ensure the finest quality services in the industry. Contact TCB for all of your thin film and bonding needs.

**TRUMPF Hüttinger** 616  
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A stable process power supply is necessary for all high-tech areas. As a leading global manufacturer, TRUMPF Hüttinger provides current with the required frequency and power with its DC, MF, and RF generators – no matter whether for plasma applications, induction heating, or CO<sub>2</sub> laser excitation. The newly developed inverter from TRUMPF Hüttinger provides the perfect solution for energy storage from renewable energies, and is seen as the storage technology of the future.

## Sputtering Systems for R&D and Pilot

**Kurdex Discovery is the latest small Sputter system by Kurdex Corp Thinfilm Systems, specifically designed for versatility and flexibility to process a variety of substrate materials, sizes and shapes. These systems are offered with; Sputter Etch, Pre-heat, Ion Source, multiple high efficiency planar sputter sources for RF, DC, or MF sputtering, and provision for addition of EVAPORATION well for Thermal or E-Beam evaporation. These systems are the smallest systems that Kurdex manufactures for R&D and Pilot production for processing batches of small substrates or single sheets of up to 12" x 18". These systems are highly reliable, cost efficient, simple to operate, easy to install and maintain, have a small footprint and are equipped with user friendly HMI for recipe based operation for multi layer deposition in reactive or non reactive sputtering.**



[www.kurdex.com](http://www.kurdex.com)

**Kurdex**  
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**TSVTI** 224  
<https://www.vergason.com>

Provider of PVD Equipment and Coating Services and Processes utilizing Sputtering, Thermal Evaporation, and Cathodic-Arc. Vacuum Metallizing Services, Industries served: Lighting, LED, Reflective, Decorative, Wear, Chrome Plating Replacement, Automotive, Aerospace, Appliance, Sports, Electronic, Display, Cosmetic, Consumer Products, Energy Technologies (Batteries, Oil & Gas, Solar), Packaging, Medical devices, and EMI/RFI Shielding. ISO 9001:2015, ITAR Registered, and RoHS Compliant.

**UC Components** 104  
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<http://www.uccomponents.com>

At the heart of UC's philosophy is a dedication to quality, service, and responsibility. The company maintains ISO 9001 certification, complies with global standards such as REACH and RoHS, and powers its operations with renewable solar energy. Every order, from small quantities to large-scale projects, receives personalized attention from Certified Fastener Specialists. UC Components provides reliable products and lasting partnerships for clean-critical industries worldwide.

**VAT Group** 514  
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VAT is a global leader in the development of high vacuum solutions that are essential for the production of semiconductors, displays, and digital technologies.

**Vital Materials and FHR** 206  
<https://en.vitalchem.com/>

Vital's advancing thin film technology ensures your solutions for vacuum coating, sputtering targets and evaporation materials. Vital Materials is a global materials technology and equipment company that has been operating since 1995. With vertically integrated industrial and commercial operations spanning Americas, Europe, and Asia, Vital Materials employs over 15,000 individuals worldwide.

FHR Anlagenbau GmbH, a division of Vital Materials, is a leading manufacturer of vacuum coating systems.

**Witzenmann, USA** 626  
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Witzenmann offers the most extensive product range of flexible metal hoses, expansion joints, metal bellows, pipe supports components in the world.

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AVS unites a global community of scientific professionals and students dedicated to advancing materials, interfaces, and processing. Through conferences, training programs, career services, and peer-reviewed publications, AVS fosters interdisciplinary collaboration, professional growth and recognition, and meaningful, lasting connections. Learn more about AVS membership at [www.avs.org](http://www.avs.org)!

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Sheraton Dallas, Dallas, Texas, USA

## Advance Exhibit/Booth Registration

The Advance Booth Reservation Process enables 2026 exhibitors to reserve the best available booth (or booths) for the next SVC Exhibit, using any of the exhibitor points that they have accumulated. The current Point System will still apply for 2027. The exhibiting company contact will be presented with a 2027 Exhibit contract when the 2027 Exhibit Hall Layout has been finalized.

### 2027 TechCon Sponsorships

Current exhibitors have opportunity to commit to 2027 TechCon Sponsorships now. Select from the following:

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### 2027 TechCon Advance Booth Reservation Form

10 foot x 10 foot booth \$3,695 USD

*Booth fee increases to \$3,895 USD on September 12, 2026.*

*The Second Wave of Booth Assignments will apply to booth reservations received between July 18, 2026 and September 11, 2026.*

**Full payment by credit card or company check is required for a complete booth application.**

Booth registration form can be sent by fax to 866-577-2407 or by email to jacque.matanis@svc.org.

Mail checks to SVC, PO Box 10628, Albuquerque, NM 87184-0628 USA

Company Name \_\_\_\_\_

Exhibit Contact Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Country \_\_\_\_\_

Work Phone \_\_\_\_\_ Mobile Phone \_\_\_\_\_

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# of Booths \_\_\_\_\_ 10 foot x 10 foot space (\$3,695 USD each)\$ \_\_\_\_\_

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#### Method of Payment:

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*All credit card charges will incur a 3% service fee*

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**Booth Fee Includes:** 8 foot high backwall, 3 foot high dividers, booth ID sign, 500-character listing in the 2027 TechCon Program/Exhibit Guide, 2,000-character exhibitor profile in the 2027 online exhibit floor plan, and two giftable seats to any tutorial offered at the 2027 TechCon.

**Once you fill out this form,  
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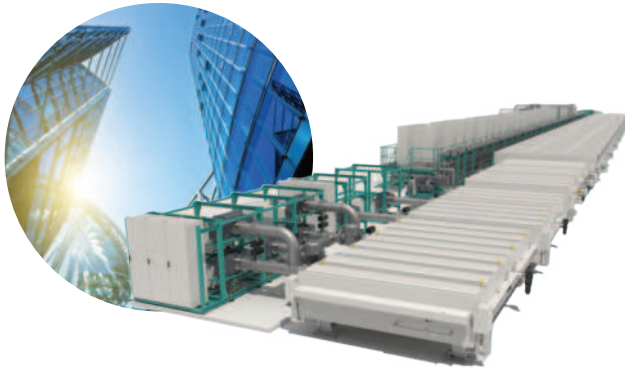
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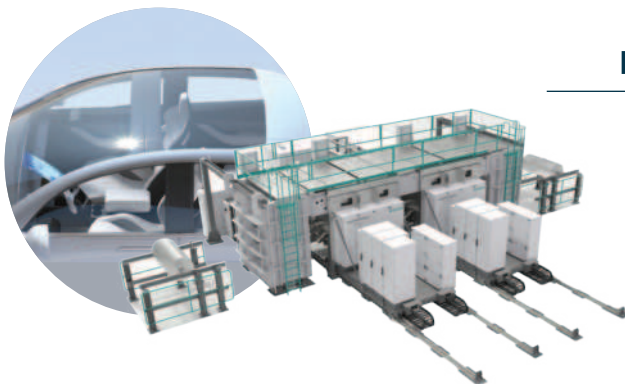


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3 Li 6.941 Lithium	4 Be 9.012182 Beryllium											5 B 10.811 Boron	6 C 12.0107 Carbon	7 N 14.0067 Nitrogen	8 O 15.9994 Oxygen	9 F 18.9984032 Fluorine	10 Ne 20.1797 Neon
11 Na 22.98976928 Sodium	12 Mg 24.305 Magnesium											13 Al 26.9815386 Aluminum	14 Si 28.0855 Silicon	15 P 30.973762 Phosphorus	16 S 32.065 Sulfur	17 Cl 35.453 Chlorine	18 Ar 39.948 Argon
19 K 39.0983 Potassium	20 Ca 40.078 Calcium	21 Sc 44.955912 Scandium	22 Ti 47.867 Titanium	23 V 50.9415 Vanadium	24 Cr 51.9961 Chromium	25 Mn 54.938045 Manganese	26 Fe 55.845 Iron	27 Co 58.933195 Cobalt	28 Ni 58.6934 Nickel	29 Cu 63.546 Copper	30 Zn 65.38 Zinc	31 Ga 69.723 Gallium	32 Ge 72.64 Germanium	33 As 74.9216 Arsenic	34 Se 78.96 Selenium	35 Br 79.904 Bromine	36 Kr 83.798 Krypton
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55 Cs 132.9054 Cesium	56 Ba 137.327 Barium	57 La 138.90547 Lanthanum	58 Ce 140.12 Cerium	59 Pr 140.90765 Praseodymium	60 Nd 144.242 Neodymium	61 Pm (145) Promethium	62 Sm 150.36 Samarium	63 Eu 151.964 Europium	64 Gd 157.25 Gadolinium	65 Tb 158.92535 Terbium	66 Dy 162.5 Dysprosium	67 Ho 164.93032 Holmium	68 Er 167.259 Erbium	69 Tm 168.93421 Thulium	70 Yb 173.054 Ytterbium	71 Lu 174.967 Lutetium	
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