



# Deadline for Abstracts: October 14, 2011

# Call for Papers

**Now Accepting Abstracts**  
for the following Symposia and Technical Sessions:

— ***“Lab to Fab” Vacuum Thin Film Manufacturing Processes***

— ***New Materials and Processes for Photovoltaics Manufacturing***

***We will also explore the symposia topics in the following traditional technical sessions:***

- › Vacuum Web Coating
- › Coatings for Cleantech Energy Conversion, Storage and Related Processes
- › Tribological and Decorative Coating
- › Emerging Technologies
- › High Power Impulse Magnetron Sputtering
- › Vacuum Processes and Coatings for Biomedical Applications
- › Optical Coating
- › Large Area Coating
- › Plasma Processing
- › *Heuréka! Post-Deadline Recent Developments*
- › Business Topics Session
- › Technical Poster Presentations

### **2012 TechCon Dates:**

**Technical Program: April 30-May 3**

**Exhibit: May 1-2**

**Education Program: April 28-May 3**

**For more information or to submit an Abstract, visit:**  
**[www.svc.org](http://www.svc.org)**



**Also introducing an Executive Forum and Venture Forum**  
See reverse for details



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# Call for Papers

## The 2012 TechCon will feature the following Symposia:

### **"Lab to Fab" Vacuum Thin Film Manufacturing Processes**

The Society of Vacuum Coaters (SVC) brings unmatched expertise in thin film processes and large-area manufacturing to the Silicon Valley. "Lab to Fab" focuses on both the materials and processes needed to bring device prototypes to a large-scale manufacturing environment.

This theme covers prototype development, materials selection, deposition techniques, processing tradeoffs, process control and monitoring, reactor engineering, quality control, and explores the pitfalls of making thin film-based products in a large-scale high volume environment. The SVC emphasizes process technology to take deposition rates well beyond nm/min. Scaling of processes and equipment will follow the lead of the large-scale glass coating and the high rate roll-coating industries which have been quite successful in fabricating and manufacturing cost effective products. Various types of deposition processes will be compared to vacuum thin film processes in terms of rate, uniformity, and contamination issues affecting ultimate yield. Rate limiting steps will be discussed along with yield challenges for scaling to higher production rates. Specific new developing technology areas that will be emphasized include:

- Nanotechnology
- Touch Panels
- Flexible Electronics
- Solid State Lighting
- Energy Storage and Energy Saving Technologies

### **New Materials and Processes for Photovoltaics Manufacturing**

Following on our success in Chicago 2011 we will "drill down" into the major issues of thin film photovoltaics and understand how they can compete with the declining cost of wafer-based PV.

Many thin film PV devices require changes to bridge the performance gap between "hand crafted" champion devices and manufacturable large-area devices. This theme will look at new materials and processes to move manufacturing from low quality devices to large-area higher quality devices of commercial importance. Our emphasis will be on, but not limited to:

- New materials, green processes (e.g. Kesterites, TCOs)
- New production technology for large-area, high-yield manufacturing
- Investigation and understanding of device performance and fabrication limitations
- Other thin film devices including CIGS, CdTe, thin film silicon, organics
- Road mapping and scale-up, including materials and design improvements

### **Executive Forum: Road Mapping of Future Thin Film Products**

This Forum is designed to be an open interaction between the captains of industry and the attendees. We will look at future products involving thin film technology, their markets and how to get there.

- *Where will we be in 2020? What will be the new products and challenges to get us there?*
- *Supply chain management including raw materials availability*
- *International manufacturing and trade*
- *Technology and fabrication partnerships*
- *Environmental impact of new technologies*

### **Venture Forum: Funding and Tools to Get Your Product to Market**

This Forum is designed to give TechCon attendees the opportunity to directly interact with business development experts and those skilled in the funding of start-ups and small to medium businesses venturing into new product areas. The Forum emphasizes the following areas:

- *Venture funding for start-ups*
- *Government sponsored manufacturing and innovation programs*
- *Concept-to-prototype, prototype-to-manufacturing facilities*
- *University-industry partnerships and training programs*
- *Duration of the "Idea-to-Innovation" cycle*

**For more information or to submit an Abstract, visit:**

**WWW.SVC.ORG**

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