



[Events | Trade fairs](#) · [15th International Conference on HIPIMS](#) · [Conference Program](#)

## Conference Program

### Navigation

[Conference program](#)

[Exhibition](#)

[Registration](#)

[Registration information and accomodation](#)

[Abstract submission](#)

## SVC Short Courses

The Society of Vacuum Coaters is presenting three tutorial courses. Take advantage of learning from these outstanding, internationally recognized instructors and getting answers to your practical vacuum coating problems.

### [SVC C-310: Sputtering](#)

Monday, June 23, 2025: 08:30 - 16:30

Dr. Ralf Bandorf, Fraunhofer IST, Germany

### [SVC C-323: High Power Impulse Magnetron Sputtering](#)

Monday, June 23, 2025: 08:30 - 16:30

Prof. Arutiun P. Ehasarian, Sheffield Hallam University, Sheffield, UK

## SVC C-338: Application of Reactive Sputtering

Tuesday, June 24, 2025: 08:30 - 12:00

Dr. Ralf Bandorf, Fraunhofer IST, Germany

Holger Gerdes, Fraunhofer IST, Germany

## SVC C-333: HIPIMS Applications

Tuesday, June 24, 2025: 13:00 - 16:30

Dr. Ralf Bandorf, Fraunhofer IST, Germany

Prof. Arutiun P. Ehiasarian, Sheffield Hallam University, Sheffield, UK

# Conference Program

	WEDNESDAY, JUNE 25	THURSDAY, JUNE 26
8:00	Registration	Registration
8:30	Welcome	
8:40	I-V-characteristics and drifts – glows, arcs and HiPIMS discharges: A few historical remarks <a href="#">Holger Kersten</a> Kiel University, Germany	Simulating the Dynamics of Industrial HiPIMS Plasma with a Positive Pulse Using a 2D Hybrid Model <a href="#">Adam Obrusnik</a> PlasmaSolve s.r.o., Czech Republic
9:00	Time-resolved optical emission spectroscopy of material transport during the sputtering of a compound NbC target by HiPIMS <a href="#">Andrea Pajdarová</a> University of West Bohemia in Pilsen, Czech Republic	New insights into HiPIMS discharges from particle-based simulations <a href="#">Tomas Kozak</a> University of West Bohemia in Pilsen, Czech Republic
9:20	Tuning HIPIMS processes in real-time by pulse-resolved spectroscopic and electrical plasma process control <a href="#">Thomas Schütte</a> PLASUS GmbH, Germany	Simulation-Based Prediction of SiO <sub>x</sub> and AlO <sub>x</sub> Film Properties in a Reactive HiPIMS + RF Deposition <a href="#">Kristina Tomankova</a> PlasmaSolve s.r.o., Czech Republic
9:40	Electrical Characterization of a Superimposed HiPIMS / RF Deposition Process on a Single Magnetron <a href="#">Jonas Müller</a> Fraunhofer IWM, Germany	Digital Modelling of an Industrial Inline Sputtering System - passing the Turing-Test for a practical application <a href="#">Dennis Barton</a> Fraunhofer IST, Germany
10:00	Exhibition, Poster Session, and Coffee break	Exhibition, Poster Session, and Coffee break
10:40	Plasma and energy flux diagnostics in HiPIMS discharges <a href="#">Caroline Adam</a> Kiel University, Germany	Optimized HiPIMS-Deposited TiAlSiN Coatings: Tailoring Deposition Parameters for Superior Machining of Inconel 718 <a href="#">Sumit Rajput</a> Indian Institute of Technology Madras, India
11:00	Probe Measurement Technology for Pulsed Plasma Processes <a href="#">Moritz Oberberg</a> House of Plasma GmbH, Germany	Surface engineering and microbiology – a critical partnership in medicine, the environment and more <a href="#">Thomas Smith</a> Sheffield Hallam University, United Kingdom
11:20	Correlation between sputtering method, microstructure and properties of TiO <sub>x</sub> thin films deposited by reactive direct-current and high-power impulse magnetron sputtering <a href="#">Anas Ghailane</a> Avaluxe Coating Technologies GmbH & Co KG, Germany	Phase transition control using Reactive bipolar HiPIMS, application to tantalum nitride and original transition metal nitride alloys <a href="#">Julien Neyrat</a> Safran, France
11:40	Robust Antimicrobial Transition Metal Nitride Plasmonic Meta-Arrays <a href="#">Arutiun P. Ehiasarian</a> Sheffield Hallam University, UK	Performance Enhancement of Single layered Brazed cBN Grinding Wheel using HiPIMS-deposited TiAlSiN coating <a href="#">Bandana Priyadarshini</a> Indian Institute of Technology Madras, India
12:00	Exhibition and Lunch	Exhibition and Lunch
13:40	VO <sub>2</sub> :W coatings deposited by HIPIMS for thermochromic coatings in Architectural glass for energy saving applications <a href="#">Stefan Körner</a> Fraunhofer IST, Germany	HiPIMS – as an enabler for next steps in tool, decorative and functional applications <a href="#">Philipp Immich</a> IHI Hauzer Techno Coating, The Netherlands
14:00	Deposition of Indium Gallium Zinc Oxide film for thin-film transistor by HiPIMS <a href="#">Takayuki Ohta</a> Meijo University, Japan	Characterization of Plasma Properties in Copper Discharge by HiPIMS Under Varying Pulse Parameters <a href="#">Anna W. Oniszczyk</a> Trumpf Huettinger Sp. z o.o., Poland
14:20	Alpha-Alumina Thin Films at Low Temperature by Reactive HiPIMS <a href="#">Celia Dieudonne</a> Institute of condensate matter of bordeaux, France	Superior HiPIMS-deposited AlCrN coatings for a wide range of cutting applications <a href="#">Biljana Mesic</a> CemeCon AG, Germany

14:40	Tool Life and Quality of Holes in Micro-Drilling of SS316 Steel by HiPIMS-TiAlSiN Coated Carbide Tools <u>Abhishek Shrivastava</u> Indian Institute of Technology Madras, India	Hybrid Cleaning in High-Tech-Coating Processes <u>Karl Trautz</u> HEMO GmbH, Germany
15:00	Exhibition, Poster Session, and Coffee break	Professor Papken Eh. Hovsepian Award Closing remarks
15:20		<b>End of the conference</b>
15:40	OES-Driven Process Monitoring and Control for Long-Term Stability in Industrial Roll-to-Roll HiPIMS Copper Coating <u>Ju-Liang He</u> Feng Chia University, Taiwan	
16:00	Enhanced Osseointegration of HiPIMS Titanium Coating on Laser-Textured PEEK for Spinal Implants <u>Ping-Yen Hsieh</u> Feng Chia University, Taiwan	
16:20	Reactive triple-cathode high power impulse magnetron sputtering co-deposition of C–Cr–Zr films <u>Yu-Tang Yin</u> National Formosa University, Taiwan	
16:40	Effect of Sputtering Peak Power Density on the Adhesion of Titanium Coatings on PET Substrates via HiPIMS <u>Ying-Hung Chen</u> Feng Chia University, Taiwan	
17:00	<u>Panel discussion</u> "State of the Art and Opportunities in Commercial HIPIMS Applications"	
18:00	<b>End of the first conference day</b>	
19:30	<b>Conference Dinner</b> Steigenberger Parkhotel Braunschweig, Nimes-Str. 2, 38100 Braunschweig	

## Poster Session

P1	HiPIMS Deposition of Tunable Bandgap TiO <sub>2</sub> for Flexible Photovoltaics <u>Sheng-Kuei Chiu</u> Feng Chia University, Taiwan
P2	Influence of bilayer thickness on surface morphology, optical properties of TiN/NbN multilayer coatings deposited by HiPIMS <u>Arunprabhu Arunachalam Sugumaran</u> Sheffield Hallam University, UK
P3	High-performance AlCrN Coatings Prepared by Focused Magnetron Sputtering Technology <u>Jan Klusoň</u> PLATIT a.s., Czech Republic

## Contact



Organizing Team HIPIMS 2027



**Dr.-Ing. Ralf Bandorf**

Group Manager Simulation and Thin-Film Systems  
| Optical and Electronic Systems

Fraunhofer Institute for Surface Engineering and  
Thin Films IST  
Riedenkamp 2  
38108 Braunschweig

Phone +49 531 2155-602



**Dipl.-Phys. Holger Gerdes**

Simulation and Thin-Film Systems | Optical and  
Electrical Systems

Fraunhofer Institute for Surface Engineering and  
Thin Films IST  
Riedenkamp 2  
38108 Braunschweig

Phone +49 531 2155-576  
Fax +49 531 2155-900

© 2026

Source: Fraunhofer-Gesellschaft

Fraunhofer Institute for Surface Engineering and Thin Films IST - Conference Program

Online in Internet; URL: <https://www.ist.fraunhofer.de/en/events-trade-fairs/2025/hipims-2025/program.html>

Date: 12.6.2026 16:36