



# 15th European Vacuum Conference (EVC-15)

## Monday 18 June 2018

### Thin Films & Surface Engineering: 1 - Room 2 (09:55 - 10:55)

-Conveners: Matjaz Panjan

time	[id] title	presenter
09:55	[356] Semiconductor Thin Films by Hybrid Pulsed Laser Deposition Methods	Prof. SCHWARZ, Reinhard
10:15	[313] Structure, thermal stability and oxidation resistance of TiBN PVD hard coatings	ZACKOVA, Paulina

### Thin Films & Surface Engineering: 1 - Room 2 (11:15 - 12:15)

-Conveners: Matjaz Panjan

time	[id] title	presenter
11:15	[152] Microstructure, Stress Gradients, and Mechanical Properties in Diamond Films Revealed by Cross-sectional X-ray Nanodiffraction and Microcantilever Testing	Mr GRUBER, David
11:35	[150] In-Situ <sup>2</sup> : In-Situ High-Temperature High-Energy X-Ray Diffraction and In-Situ Micromechanical Testing of nanostructured AlCrSiN-AlCrN multilayer coating prepared by reactive arc evaporation	Mr MEINDLHUMER, Michael
11:55	[269] Controlling the Boron-to-Titanium Ratio in Magnetron-Sputter-Deposited TiBx Thin Films via Preferential Ionization of Sputter-Ejected Ti	PETROV, Ivan

## Tuesday 19 June 2018

### Thin Films & Surface Engineering: 2 - Room 2 (09:30 - 10:30)

-Conveners: Ming Show Wong

time	[id] title	presenter
09:30	[194] The influence of post-deposition annealing on the microstructure of TiZrV non-evaporable getter coatings, their activation behaviour, and pumping speed.	Mr SINKOVITS, Theo
09:50	[142] The role of oxygen in sputtering of ZnO films for ZnO nanorod-based devices	NOVÁK, Petr
10:10	[415] Effect of Growth Temperature on the Structure of CoCrFeNiCu High Entropy Alloy Films	RADNÓCZI, György

### Thin Films & Surface Engineering: 2 - Room 2 (10:50 - 11:50)

-Conveners: Ming Show Wong

time	[id] title	presenter
10:50	[375] Functional Metal-Oxide and Diamond-like Carbon Thin Films using Standard and High Power Impulse Magnetron Sputtering	Dr AIJAZ, Asim
11:30	[251] Magnetron Sputter Deposition of Ti-Nb Coatings on AISI 316L Stainless Steel	Prof. NASCENTE, Pedro

### Thin Films & Surface Engineering: 3 - Room 2 (13:20 - 15:00)

-Conveners: Daniel Lundin

time	[id] title	presenter
13:20	[258] Surface modification of a TiN coated steel by ion beam dynamic mixing	Prof. KOBAYASHI, Toshiro
13:40	[178] Temperature stability of decorative electro-magnetic transparent metal-semiconductor thin-films	Dr STOEHR, Bastian
14:00	[183] Investigation of the influence of molecular and atomic nitrogen ion species during epitaxial nitride thin film growth	Mr MENSING, Michael
14:20	[172] Remote Anode Assisted Magnetron Sputtering (RAAMS) of Cr-based Hard Coatings for Tribological Applications	Dr KAMATH, Ganesh

### Thin Films & Surface Engineering: 3 - Room 2 (15:20 - 16:40)

-Conveners: Daniel Lundin

time	[id] title	presenter
15:20	[157] In-situ electrical characterization on dipole formation on MoS <sub>2</sub> by atomic layer deposition	KIM, Jiyoung
15:40	[162] Plasma-based substrate modification for highly c-axis oriented growth of AlN and Al <sub>1-x</sub> Sc <sub>x</sub> N thin films by reactive magnetron sputtering	Dr ŽUKAUSKAITĖ, Agnė
16:00	[294] Deep oscillation versus direct current magnetron sputtering of AlN thin films for acoustic biosensors	SALAS, Olimpia

## Wednesday 20 June 2018

### Thin Films & Surface Engineering: 4 - Room 2 (09:30 - 10:30)

-Conveners: Pedro Nascente

time	[id] title	presenter
09:30	[371] Specific features of thin film metallic glasses and their elastic properties relationship	DJEMIA, Philippe
10:10	[232] Comprehensive Thin Film Analysis by Cross-sectional X-ray Nanodiffraction	Dr TODT, Juraj

### Thin Films & Surface Engineering: 4 - Room 2 (10:50 - 12:10)

-Conveners: Pedro Nascente

time	[id] title	presenter
10:50	[337] Generation of an energy and mass selective hyperthermal ion beam for investigation of ion-assisted thin film growth processes	GERLACH, Jürgen W.
11:10	[108] Brittle film-induced cracking of ductile substrates	Prof. PANG, Xiaolu
11:30	[144] Catalytic Performance of Coated Hollow Glass Microspheres	Dr CHRISTOPH, Eisenmenger-Sittner
11:50	[164] LHC Beam Vacuum Evolution during Run 2 Machine Operation	YIN VALLGREN, Christina

### Thin Films & Surface Engineering: 5 - Room 2 (13:20 - 15:00)

-Conveners: Jörg Patscheider

time	[id] title	presenter
13:20	[298] Structure and properties of ion-assisted and co-sputtered Ti-Zr-B hard and superhard coatings	Prof. WONG, Ming Show
13:40	[364] Trapped aqueous films lubricate a highly-hydrophobic surface.	Dr ROSENHEK-GOLDIAN, Irit
14:00	[378] Novel Superhydrophobic Cellulose Coating and Its Multifunctional Applications	Prof. ROY, Sunanda
14:20	[363] Thin Films of Trimeric Surfactant as Boundary Lubricants	Dr KAMPF, Nir
14:40	[219] Tribological and electrical characterization of Ag/Rh coating pair for sliding RF contact application for ITER	Mr CHEN, Zhaoxi