Session Program

17-22 Jun 2018



15th European Vacuum Conference (EVC-15)

Thin Films & Surface Engineering

Monday 18 June

09:55

Thin Films & Surface Engineering: 1

Session | Location: CICG, Room 2 | Convener: Matjaz Panjan

09:55-10:15

Semiconductor Thin Films by Hybrid Pulsed Laser Deposition Methods

Speaker

Prof. Reinhard Schwarz

10:15-10:36

Structure, thermal stability and oxidation resistance of TiBN PVD hard coatings

Speaker

Paulina Zackova

10:5511:15

Thin Films & Surface Engineering: 1

Session | Location: CICG, Room 2 | Convener: Matjaz Panjan

11:15-11:35

Microstructure, Stress Gradients, and Mechanical Properties in Diamond Films Revealed by Cross-sectional X-ray Nanodiffraction and Microcantilever Testing

Speaker

Mr David Gruber

11:35-11:55

In-Situ²: 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

Speaker

Mr Michael Meindlhumer

11:55-12:15

Controlling the Boron-to-Titanium Ratio in Magnetron-Sputter-Deposited TiBx Thin Films via Preferential Ionization of Sputter-Ejected Ti

Speaker

Ivan Petrov

12:15

Tuesday 19 June

09:30

Thin Films & Surface Engineering: 2

Session | Location: CICG, Room 2 | Convener: Ming Show Wong

09:30-09:50

The influence of post-deposition annealing on the microstructure of TiZrV nonevaporable getter coatings, their activation behaviour, and pumping speed.

Speaker

Mr Theo Sinkovits

09:50-10:10

The role of oxygen in sputtering of ZnO films for ZnO nanorod-based devices

Speaker

Petr Novák

10:10-10:30

Effect of Growth Temperature on the Structure of CoCrFeNiCu High Entropy Alloy Films

Speaker

György Radnóczi

10:30 10:50

Thin Films & Surface Engineering: 2

Session | Location: CICG, Room 2 | Convener: Ming Show Wong

10:50-11:30

Functional Metal-Oxide and Diamond-like Carbon Thin Films using Standard and High Power Impulse Magnetron Sputtering

Speaker

Dr Asim Aijaz

11:30-11:50

Magnetron Sputter Deposition of Ti-Nb Coatings on AISI 316L Stainless Steel

Speaker

Prof. Pedro Nascente

11:50 13:20

Thin Films & Surface Engineering: 3

Session | Location: CICG, Room 2 | Convener: Daniel Lundin

13:20-13:40

Surface modification of a TiN coated steel by ion beam dynamic mixing

Speaker

Prof. Toshiro Kobayashi

13:40-14:00

Temperature stability of decorative electro-magnetic transparent metalsemiconductor thin-films

Speaker

Dr Bastian Stoehr

14:00-14:20

Investigation of the influence of molecular and atomic nitrogen ion species during epitaxial nitride thin film growth

Speaker

Mr Michael Mensing

14:20-14:40

Remote Anode Assisted Magnetron Sputtering (RAAMS) of Cr-based Hard Coatings for Tribological Applications

Speaker

Dr Ganesh Kamath

15:00 15:20

Thin Films & Surface Engineering: 3

Session | Location: CICG, Room 2 | Convener: Daniel Lundin

15:20-15:40

In-situ electrical characterization on dipole formation on MoS2 by atomic layer deposition

Speaker

Jiyoung Kim

15:40-16:00

Plasma-based substrate modification for highly c-axis oriented growth of AlN and Al_{1-x} \$S\$_{cx}\$N thin films by reactive magnetron sputtering

Speaker

Dr Agnė Žukauskaitė

16:00-16:21

Deep oscillation versus direct current magnetron sputtering of AIN thin films for acoustic biosensors

Speaker

Olimpia Salas

16:40

Wednesday 20 June

09:30 Thin Films & Surface Engineering: 4 Session | Location: CICG, Room 2 | Convener: Pedro Nascente 09:30-10:10 Specific features of thin film metallic glasses and their elastic properties relationship Speaker Philippe Djemia 10:10-10:30 Comprehensive Thin Film Analysis by Cross-sectional X-ray Nanodiffraction Speaker Dr Juraj Todt 10:30 10:50 Thin Films & Surface Engineering: 4 Session | Location: CICG, Room 2 | Convener: Pedro Nascente 10:50-11:10 Generation of an energy and mass selective hyperthermal ion beam for investigation of ion-assisted thin film growth processes Speaker Jürgen W. Gerlach 11:10-11:30 Brittle film-induced cracking of ductile substrates Speaker Prof. Xiaolu Pang 11:30-11:50 Catalytic Performance of Coated Hollow Glass Microspheres Dr Eisenmenger-Sittner Christoph 11:50-12:10 LHC Beam Vacuum Evolution during Run 2 Machine Operation Speaker Christina Yin Vallgren 12:10 13:20 Thin Films & Surface Engineering: 5 Session | Location: CICG, Room 2 | Convener: Jörg Patscheider 13:20-13:40 Structure and properties of ion-assisted and co-sputtered Ti-Zr-B hard and superhard coatings Speaker Prof. Ming Show Wong 13:40-14:00 Trapped aqueous films lubricate a highly-hydrophobic surface.

Speaker

Dr Irit Rosenhek-Goldian

14:00-14:20

Novel Superhydrophobic Celllulose Coating and Its Multifunctional Applications

Speaker

Prof. Sunanda Roy

14:20-14:40 Thin Films of Trimeric Surfactant as Boundary Lubricants

Speaker

Dr Nir Kampf

14:40-15:00

Tribological and electrical characterization of Ag/Rh coating pair for sliding RF contact application for ITER

Speaker

Mr Zhaoxi CHEN

15:00