Last update: 14 April 2026

POSTER SESSIONS

Poster Session #1 – Tuesday 9 June (17:10 – 18:40)

DEVO / Thin films for sustainable development

#002 Plasma-assisted deposition of vertically aligned graphene nanosheets for advanced energy storage devices
A. Vesel, R. Zaplotnik, D. Paul, G. Primc, M. Mozetič
Jozef Stefan Institute - Ljubljana (SI)

#011 Phase formation on CaV_2O_x amorphous films deposited by reactive magnetron sputtering after post-annealing treatment
T. Fernandes[1], M. Hahlin[2], A. Le Febvrier[1], P. Eklund[1]
[1] Inorganic Chemistry, Department of Chemistry — Ångström Laboratory, Uppsala Univ., Uppsala (SE)
[2] Structural Chemistry, Department of Chemistry — Ångström Laboratory, Uppsala Univ., Uppsala (SE)

#016 Reactive magnetron sputtering of WO_3 thin films: effects of oxygen flow and pulsed DC frequency on electrochromic behavior
P. Vasina[1], T. Rajan[1], D. Lubojacký[1], S. Behrangi[1], P. Soucek[1], J. Zenisek[1], P. Klein[1], I. Venkrbcova[2], Z. Hubicka[2], J. Vyskocil[3], J. Tucek[3]
[1] Masaryk Univ. - Brno (CZ)
[2] Institute of Physics of the Czech Academy of Sciences - Prague (CZ)
[3] HVM Plasma - Prague (CZ)

#160 Lithium storage in nanostructured SiC: a surface and electrochemical study
K. Idczak[1], S. Owczarek[1], K. Walczak[2]
[1] Univ. Wrocław, Institute of Experimental Physics - Wrocław (PL)
[2] AGH Univ. Kraków, Faculty of Energy and Fuels - Kraków (PL)

#171 High-pressure hydride films synthesis by time-resolved in situ optical spectroscopy
D. Abejón-Arribas[1], P. Prieto[1], F. Leardini[1], I.J. Ferrer[1], Ó. Rodríguez De La Fuente[2], J.R. Ares[1]
[1] Departamento de Física de Materiales, Univ. Autónoma de Madrid - Madrid (ES)
[2] Departamento de Física de Materiales, Univ. Complutense de Madrid - Madrid (ES)

#201 Controlled stoichiometry and phase purity in magnetron-sputtered cobalt nitride thin films
I. Bouzroud, D. Pilloud, G. Steciuk, J.F. Pierson, B. Vigolo
Institut Jean Lamour - Nancy (FR)

Last update: 14 April 2026

Poster Session #1 – Tuesday 9 June (17:10 – 18:40)

TRIBO / Protective & tribological coatings

#012 Refractory High Entropy nano-layered Alloy thin films for oxidation resistance
A. Bouissil[1], S. Achache[1], D.E. Touaibia[1], J. Ghanbaga[2], P.S. Postnikov[3], M.M. Chehimi[4], B. Panicaud[5], F. Parent[1], F. Sanchette[1], M. El Garah[1]
[1] UTT LASMIS, Antenne de Nogent – 52, LRC CEA-LASMIS, NICCI - Nogent (FR)
[2] Institut Jean Lamour (UMR CRS 7198) - Nancy (FR)
[3] Research School of Chemistry and Applied Biomedical Sciences, Tomsk Polytechnic Univ.- Tomsk (RU)
[4] Univ. Paris, ITODYS, UMR CNRS 7086 - Paris (FR)
[5] LASMIS, Université de Technologie de Troyes (UTT) - Troyes (FR)

#013 A laser induced plasma processing for forming a tribological nitride coating on a metal surface
N. Ohtsu[1], E. Hashiba[1], M. Tachibana[1], Y. Kitadate[1], R. Kawakami[2], M. Hirano[1]
[1] Kitami Institute of Technology - Kitami (JP)
[2] Hokkaido Research Organization - Sapporo (JP)

#047 Investigating the passivation behavior of PVD coatings throughout their metallic to ceramic transition
S. Abolghasemi, H. Riedl, O. Hudak
Institute of Materials Science and Technology, TU Wien - Vienna (AT)

#071 Study on the anti-fretting effects of DLC coating on titanium alloy
Q. Yu
AVIC Manufacturing Technology Institute - Beijing (CN)

#161 Femtosecond laser structuring of thin film heaters for 3ω thermal conductivity measurements on wear resistant coatings
C. Hofer[1], M. Pohler[2], C. Czettl[2], M. Tkadletz[1]
[1] C. Doppler Lab. for Sustainable Hard Coatings, Dpt. Materials Science, Montanuniv. Leoben (AT)
[2] CERATIZIT Austria GmbH, Reutte (AT)

#166 Crystal structure and mechanical properties of ALD-grown and thermally treated hafnium oxide–silicon oxide composite films
O. Vanker, A. Tarre, A. Kasikov, P. Ritslaid, T. Jõgiaas
Univ. Tartu - Tartu (EE)

#232 Pulsed laser-arc deposition of high-hardness diamond-like carbon coatings: plasma characteristics and performance optimization
G. Ma, X. Liu
AVIC Manufacturing Technology Institute - Beijing (CN)

#233 Plasma nitriding of AISI 316L powders
G. Marcos[1], L. Bortoletto[2], R. Perito Cardoso[2], T. Czerwiec[1], S. Bruyere[1], J. Martin[1], M.P. Planche[3], G. Darut[3], H. Liao[3]
[1] Institut Jean Lamour - Nancy (FR)
[2] LabMat - UFSC - Florianopolis (BR)
[3] Institut Carnot Bourgogne - Belfort (FR)

Last update: 14 April 2026

Poster Session #1 – Tuesday 9 June (17:10 – 18:40)

TRIBO / Protective & tribological coatings (*to be followed)*

#236 Comparative study of HiPIMS-deposited CrN and CrSiN hard coatings in cryogenic machining of Ti_6Al_4V

G. Chettouh[1], S. Achache[1], A. Bouissil[1], L. Gueye[1], Y. Pinot[2], F. Sanchette[1], C. Nouveau[2], M. El Garah[1]
[1] LASMIS – Univ. Technology of Troyes - Nogent (FR)
[2] LaBoMaP - École nationale supérieure d'Arts et Métiers - Cluny (FR)

SENCA / Thin films for sensing & capture

#001 Induced variety of surface domain structures in hybrid metal-glass cylindrical microwires

A. Chizhik[1], A. Zhukov[2]
[1] Univ. Basque Country - San Sebastian (ES)
[2] Univ. Basque Country, IKERBASQUE, Basque Foundation for Science - San Sebastian (ES)

#108 Gold nanoparticles-palladium nanostructures for hydrogen sensor

L. Avril[1], A. Andrieux[2], I. Gallet[2], F.J. Cadete Santos Aires Cadete[3], B. Domenichini[2]
[1] Institut de recherche de la construction, ESTP - Cachan (France)
[2] Laboratoire Interdisciplinaire Carnot de Bourgogne, UB - Dijon (France)
[3] IRCELYON - Villeurbanne (France)

#121 Design of MAX/MXenes thin films via bottom-up magnetron sputtering for gas sensors device

A. Gangwar, R.E. González, A. Rosenkranz
ANID - AMXSA, Dpt. Ingenieria Quimica, Biotecnologia y Materiales, Univ. Chile, Santiago (CL)

Poster Session #1 – Tuesday 9 June (17:10 – 18:40)

OPTO / Thin films for optics & electronics

#037 Optical properties of ultrathin ZnS layers grown by ionic layer deposition
A. Bogoslovska, D. Grynko
V. Lashkaryov Institute of Semiconductor Physics of NAS of Ukraine - Kyiv (UA)

#066 3-Omega thermal conductivity measurements of metal oxide thin films
G. Benstetter[1], F. Kühnel[1], N. Hernandez-Como[2], L. Sanchez-Fernandez[2]
[1] Technische Hochschule Deggendorf - Deggendorf (DE)
[2] Instituto Politécnico Nacional - México City (MX)

#076 Parametric study of the pulsed laser deposition of chalcogenide glasses thin films: the cases of germanium telluride and germanium antimony
M. Tabbal[1], N. Barakat[2], M. Roumie[3], H. Ghamlouche[4]
[1] Department of Physics, American Univ. Beirut - Beirut (LB)
[2] American Univ. Beirut - Beirut (LB)
[3] Lebanese Atomic Energy Commission, National Council for Scientific Research - Beirut (LB)
[4] Department of Physics, Lebanese Univ. - Beirut (LB)

#146 Low global warming potential plasma etching of SiC with Heptafluoroisopropyl methyl ether
C-K. Kim, I. Cho
Ajou Univ. - Suwon (KR)

#147 Transient photocapacitance measurement for characterization of deep interface states in SiO_2/B-doped diamond films
O. Maida
Osaka Univ. - Osaka (JP)

#157 3D nanostructures and devices on diamond film
C. Gu
Institute of Physics, Chinese Academy of Sciences - Beijing (CN)

#174 Evolution of the optical bandgap of CuI thin films as a function of the temperature
S. Khan[1,2], S.A. Efimova[2], D. Pilloud[2], T. Fix[2], J.F. Pierson[2]
[1] Univ. Lorraine, CNRS, IJL, Nancy (FR)
[2] Univ. Strasbourg, CNRS, ICube - Strasbourg (FR)

#208 Reactive gas pulsing process and glancing angle sputtering: a combined approach for high-performance WO_x electrochromic films
C. Rousselot[1], K.B.J.I. N'djoré[2]
[1] FEMTO ST, Univ. Marie et Louis Pasteur - Montbéliard (FR)
[2] Laboratoire de Technologie, UFR SSMT 22, Univ. Félix Houphouët Boigny - Abidjan (CI)

#211 Vanadium dioxide thin films: various microstructures for hysteresis manipulations
F. Dumas-Bouchiat, M. Gaudin, I. Alonzo-Zapata, C. Champeaux
IRCER, Univ. Limoges (FR)

#213 In situ investigation of microstructure and stress evolution in electrochemically deposited copper
A. Asci, J. Todt, J. Keckes
Chair of Materials Physics, Montanuniv. Leoben, Leoben (AT)

Last update: 14 April 2026

Poster Session #1 – Tuesday 9 June (17:10 – 18:40)

GROM / Thin film growth & modelling

#009 Laser propulsion in confinement regime: the role of film thickness in the impulse generation process
M. Bembli[1], P. Battocchio[2], N. Bazzanella[2], M. Biesuz[1], M. Scarpa[2], G.D. Sorarù[1], A. Miotello[2]
[1] Univ. Trento, Department of Industrial Engineering - Trento (IT)
[2] Univ. Trento, Department of Physics - Trento (IT)

#064 A combined ab initio and experimental study towards advanced TM-Al/Si-C thin film materials
C. Gutschka[1], S. Richter[1], T. Wojcik[1], E. Ntemou[2], D. Primetzhofer[2], S. Kolozsvári[3], C. Jerg[4], J. Ramm[4], H. Riedl[1]
[1] TU Wien - Vienna (AT)
[2] Uppsala Univ. - Uppsala (SE)
[3] Plansee Composite Materials GmbH - Lechbruck Am See (DE)
[4] Oerlikon Surface Solutions AG - Balzers (LI)

#072 **New QCM-based diagnostic for quantitative time-resolved measurement of the ion flux in HiPIMS**
A. Kapran[1], C. Ballage[1], O. Vasilovici[1], A. Bennacef[2], T. Minea[1]
[1] CNRS / Laboratoire de Physique des Gaz et Plasmas (LPGP) - Orsay (FR)
[2] Sorbonne Univ. – Faculté des Sciences et Ingénierie - Paris (FR)

#083 Effect of target processing variables on the microstructure and mechanical properties of AlCrFeNi High-Entropy Alloy coatings deposited by DC magnetron sputtering
H. Myoungwoo, K. Kibeum, H. Sunghwan, P. Haejin, J. Sungmun
Sejong Univ., Dept. Nanotechnology & Advanced Materials Engineering - Seoul (KR)

#099 Effect of various buffer layers for the large-scale Atomic Layer Deposition integration of archetypical $SrTiO_3$ thin film on Silicon substrate
B. Berini
GEMaC – CNRS / Univ. Versailles Saint Quentin en Yvelines, Univ. Paris Saclay - Versailles (FR)

#100 Characterizing thin films with reference-free combined XRR-GIXRF analysis at the synchrotron
Y. Ménesguen
Univ. Paris-Saclay, CEA, LIST, Lab. National Henri Becquerel (LNE-LNHB), Palaiseau - Saclay (FR)

#138 Multiscale modelling of GLAD-deposited mesoporous titanate thin films for lithium-ion battery applications
A-G. El Hachimi[1], J. Müller[1], P. Moskovkin[1], E.Y. Guillaume[1], R. Adalati[2], S. Konstantinidis[2], S. Lucas[1]
[1] Univ. Namur, Namur Institute of Structured Matter (NISM), Namur (BE)
[2] ChIPS, Research Institute for Materials Science and Engineering, Univ. Mons, Mons (BE)

#176 Thin films of 1T-TaS_2 grown by molecular beam epitaxy
Y. Chernolevska, Y. Vaskivskyi, D. Mihailovic
Jozef Stefan Institute - Ljubljana (SI)

Poster Session #1 – Tuesday 9 June (17:10 – 18:40)

GROM / Thin film growth & modelling (*to be followed)*

#181 Mn_5Ge_3 and Mn_5Si_3 thin films: so similar and yet so different
M. Petit, L. Michez, A. Boussadi, M.A. Guerboukha, V. Heresanu, S. Kang, I. Kounta
Aix Marseille Univ, CNRS, CINaM, AMUtech - Marseille (FR)

#186 Development of a digital twin for chromium (Cr) thin film deposition by magnetron sputtering in HiPIMS mode, implemented on an industrial-scale system
M. Sanches-Morizet[1], S. Achache[1], F. Schuster[2], M. El Garah[1], F. Sanchette[1]
[1] LASMIS – Univ. Technologie de Troyes - Nogent (FR)
[2] CEA Paris-Saclay - Paris-Saclay (FR)

POSTER SESSIONS

Poster Session #2 – Wednesday 9 June (16:50 – 18:20)

DEVO / Thin films for sustainable development

#039 Heavy-element-doped chromium nitride thin films for thermoelectric properties
Y-L. Lo, A. Le Febvrier, E. Lewin, P. Eklund
Inorganic Chemistry, Department of Chemistry - Ångström Laboratory, Uppsala Univ. - Uppsala (SE)

#136 Electrocatalytic properties evaluation of $FeNiMoWCu_x$ high entropy alloy thin films fabricated by magnetron sputtering: effect of Cu contents
B-S. Lou[1], K.C. Lin[2], J.W. Lee[2]
[1] Chemistry Division, Center for General Education, Chang Gung Univ. - Taoyuan (TW)
[2] Department of Materials Engineering, Ming Chi Univ. Technology - New Taipei (TW)

#156 Plasma-assisted conformal surface engineering of powders and components with complex geometries
A. Sarkissian[1], A. Bagdasarian[1], M. Cavellier[2], K. Chizari[1], C. Côté[1], E. Loreto[1], S.E. Marzdashti[1], N. Oudini[1], R. Porte[1], J. Suys[1]
[1] PLASMIONIQUE Inc - Sainte-Julie, Qc (CA)
[2] OMEGA-PHYSICS - Sarzeau (FR)

#167 Thermally induced phase formation and optical tuning of HiPIMS-deposited Zr–O–N thin films for PEC water splitting
M. Vu, D. Kolenatý, J. Čapek, S. Haviar, R. Čerstvý, P. Zeman
Univ. West Bohemia in Pilsen - Pilsen (CZ)

#207 One-step reactive magnetron sputtering of manganese nitride thin films on nanorough substrates
G. Nkamuhebwa, D. Pilloud, J.F. Pierson, B. Vigolo
Univ. Lorraine, CNRS, IJL, Nancy (FR)

#209 TEM study of silver–dielectric multilayer structures for passive radiative cooling
F. Capon[1], H. Benait[1], J. Drevillon[2], J.F. Pierson[1]
[1] Institut Jean Lamour - Nancy (FR)
[2] Institut PPrime - Poitiers (FR)

SURF / Ultra-thin films in surface science

#022 Tailoring the surface properties of nano- and micro-particles with low-pressure plasma technologies
C. Vandenabeele, D. Müller, E. Haye, S. Lucas
Innovative Coating Solutions / LARN, NISM, Université de Namur - Isnes / Namur (BE)

#028 Surface functionalization of carbon nanotubes by plasma treatment for improved compatibility in aqueous electrode processing
D. Müller[1,2,3], C. Vandenabeele1[1,2], H. Tonnoir[3], T. Pham Thanha[2], N. Job[3], S. Lucas[1,2]
[1] Innovative Coating Solutions - Gembloux (BE)
[2] Univ. Namur - Namur (BE)
[3] Univ. Liège - Liège (BE)

Poster Session #2 – Wednesday 9 June (16:50 – 18:20)

SURF / Ultra-thin films in surface science *(to be followed)*

#029 Properties of ultrathin ZnS films grown by an improved SILAR method
E. Bortchagovsky[1], A. Bogoslovska[1], D. Grynko[1], O. Selyshchev[2], D.R.T. Zahn[2]
[1] V.Lashkaryov Institute of Semiconductor Physics of NAS of Ukraine - Kyiv (UA)
[2] Semiconductor Physics and Research Center for Materials, Architectures and Integration of Nanomembranes (MAIN), Chemnitz Univ.Technology - Chemnitz (DE)

#056 Interaction of protein grafted on silica materials with f-block elements
V. Tsapi Metchop[1], D. Rebiscoul[1], C. Berthomieu[2], F. Giusti[1], R. Winkler[3], A. Leydier[3], M. Odorico[1], N. Bremond[2], P. Gutfruend[4]
[1] Marcoule Institute in Separation Chemistry (ICSM) - Bagnols-sur-Cèze (FR)
[2] Bioscience and Biotechnology Institute of Aix-Marseille - Saint Paul-lez-Durance (FR)
[3] CEA Marcoule - Bagnols-sur-Cèze (FR)
[4] Laue Langevin Institute - Grenoble (FR)

#073 Modification of spin-coated graphene oxide thin films by laser irradiation
V. Vavruňková[1], P. Calta[1], J. Minár[1], Š. Jansová[1], Z. Jansa[1], R. Medlín[1], P. Kožmín[2], Š. Syrovátka[2], V. Kudrna[2], P. Zeman[3], A. Čermák[3], L. Dvořák[4]
[1] Univ. West Bohemia, New Technologies-Research Centre - Plzeň (CZ)
[2]HOFMEISTER s.r.o. - Plzeň (Czechia)
[3] Czech Technical Univ. Prague - Praha (CZ)
[4] VÚTS, a.s. - Liberec (CZ)

#132 XPS study of the native oxide layer of Cobalt-Chromium-Iron-Nickel (100)
P. Richter, K. Harsha Kumar, S. Wolff, T. Seyller
Univ. Technology - Chemnitz (DE)

#204 Karren-inspired periodic nanostructures through ultrafast laser irradiation of randomly assembled carbon nanotubes
I. Bouzroud[1], H. Bruhier[2], A.S. Loir[2], D. Pilloud[1], F. Bourquard[2], J. Ghanbaja[1], S. Migot[1], F. Garrelie[2], J.F. Pierson[1], C. Donnet[2], B. Vigolo[1]
[1] Institut Jean Lamour - Nancy (FR)
[2] Univ. Jean Monnet Saint-Etienne - Saint-Etienne (FR)

#212 Raster reality: <99K euro glow discharge spectrometer for high resolution pixel-by-pixel surface mapping and quantitative thin film analysis
B. Johns[1], P. Konarski[2]
[1] Spectrometer Experts USA - Cayce (US)
[2] Łukasiewicz Tele and Radio Research Institute - Warsaw (PL)

#219 Charge-state equilibration upon irradiation of monolayer graphene with singly or doubly charged swift helium ions
N. Yitzhak[1], O. Girshevitz[2], A. Haran[1], I. Shlimak[2]
[1] Soreq NRC - Yavne (IL)
[2] Institute of Nanotechnology and Advanced Materials, Bar Ilan Univ. - Ramat-Gan (IL)

Last update: 14 April 2026

Poster Session #2 – Wednesday 9 June (16:50 – 18:20)

OPTO / Thin films for optics & electronics

#038 Ionic layer deposition of ultrathin ZnS layers
D. Grynko
Institute of Semiconductor Physics of NAS of Ukraine - Kyiv (UA)

#057 Low-defect deposition of electrically insulating AlN/Al_2O_3 multilayers with bipolar pulsed magnetron sputtering
S. Bermanschläger[1], F. Bleicher[1], P.H. Mayrhofer[2]
[1] Institute of Production Engineering and Photonic Technologies, Technische Univ. Wien - Vienna (AT)
[2] Institute of Materials Science and Technology, Technische Univ. Wien - Vienna (AT)

#091 Nb-doped TiO_2 films prepared by grid-assisted magnetron sputtering
D. Duarte, F. Alfaro, A. Ramade
Federal Univ. Santa Catarina - Joinville (BR)

#135 Size-distribution controlled synthesis of TiO_2 and $Al_{0.74}Ti_{0.26}O_3$ thin films byMist CVD and applications as gate dielectric layers for MOSFETs
H. Shirai
Graduate School of Science and Engineering, Saitama Univ. - Saitama (JP)

#150 Combinatorial synthesis of thermochromic W:VO_2 thin films by reactive magnetron co-sputtering
T. Pomone[1], S. Nayak[1], M. Brousse[2], L. Teulé-Gay[1], M. Maglione[1], F. Le Cras[2], G. Yildirim[2], H. Le Poche[2], A. Rougier[1]
[1] Univ. Bordeaux, CNRS, Bordeaux INP, ICMCB, UMR 5026, Pessac (FR)
[2] CEA, CEA Tech en Régions, Nouvelle Aquitaine, Pessac (FR)

#180 Al_2O_3 anisotropic multilayer coatings deposited with the GLAD technique
E. Panchout[1], S. Bertet[2], E. Lavastre[2], C. Marcel[1], M. Chorel[2]
[1] CEA DAM Le Ripault - Monts (FR)
[2] CEA DAM CESTA - Le Barp (FR)

#198 Cu_2O@$CuCrO_2$ nanocomposite structure by simple methods as p-type material for transparent and flexible electronics
M. Hanauer[1], M. Belmouhoub[1], A. Rouviller[2], X. Mescot[3], T. Fix[4], F. Volpi[2], C. Ternon[1], F. Ducroquet[3], J.L. Deschanvres[1]
[1] Univ. Grenoble Alpes, CNRS, Grenoble INP, LMGP - Grenoble (FR)
[2] Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP - Grenoble (FR)
[3] Univ. Grenoble Alpes, Univ. Savoie Mont-Blanc, CNRS, Grenoble INP, CROMA - Grenoble (FR)
[4] Univ. Strasbourg, CNRS, ICube - Strasbourg (FR)

#203 Role of crystal orientation in the electrical and optical properties of epitaxial high entropy nitride (TiVZrNbTa)N thin films
M. Pineiro Sales[1], S.E. Benrazzouq[1], G. Steciuk[1], P. Boulet[1], S. Migot[1], S. Petit-Watelot[1], F. Mücklich[2], J.F. Pierson[1]
[1] Institut Jean Lamour – Univ. Lorraine - Nancy (FR)
[2] Saarland Univ. - Saarbrücken (DE)

Poster Session #2 – Wednesday 9 June (16:50 – 18:20)

OPTO / Thin films for optics & electronics *(to be followed)*

#218 Nanoscale mapping of dielectric breakdown in polycrystalline thin films using high-voltage conductive AFM
Z. Kudrynskyi[1], T. Cooper[1], Z. Xiang[2], J. James[3], V. Vladimir[3], K. Martin[2], D. David[1]
[1] Advanced Materials Research Group, Faculty of Engineering, Univ. Nottingham - Nottingham (UK)
[2] Centre for Device Thermography and Reliability, Univ. Bristol - Bristol (UK)
[3] Park Systems UK Limited, MediCity Nottingham - Nottingham (UK)

#221 Pulsed bias effects on SnO_2 thin films deposited by ECWR plasma
R. Mekki[1], Z. Hubička[2], M. Tichý[1]
[1] Charles Univ. - Prague (CZ)
[2] Institute of Physics v. v. i., Academy of Science of the Czech Republic - Prague (CZ)

#231 Disordered mie-resonant optical thin films for uniform and durable structural color
J-S. Yeo[1], J. Kang[1], S. Moon[1], D. Jin[2]
[1] School of Integrated Technology, College of Computing, Yonsei Univ. - Incheon (KR)
[2] Dpt. Nano Science and Engineering, Underwood International College, Yonsei Univ. - Incheon (KR)

#234 Efficient arc handling in reactive sputtering of oxide films using bipolar and dynamic reverse pulsing power delivery modes
S. Mirzaei[1], U. Krause[1], D. Shaw[2]
[1] Advanced Energy Industries - Metzingen (DE)
[2] Advanced Energy Industries - Fort Collins (US)

HELI / Thin films for health & life science

#033 Identification of asbestos fibres from soil sediments in the Pilsen region of the Czech Republic
Š. Jansová, Z. Jansa, V. Vavruňková, J. Minár
Univ. West Bohemia - NTC Research Centre - Pilsen (CZ)

#195 AlN thin film architecture for epidermal sensors
S. Mishra[1], O. Azzolini[2], L. Angioletti[2], A. Proto[3], A. Taibi[1], R. Brancaccio[1], L. Del Bianco[1], F. Spizzo[1], S. Rizzato[4], M.T. Todaro[5], A.G. Monteduro[6], G. Maruccio[6], A.P. Caricato[6]
[1] Department of Physics and Earth Science, Univ. Ferrara - Ferrara (IT)
[2] National Institute for Nuclear Physics – INFN, National Laboratories of Legnaro - Legnaro (IT)
[3] Department of Neuroscience and Rehabilitation, Univ. Ferrara - Ferrara (IT)
[4] Department of Mathematics and Physics "Ennio De Giorgi", Univ. Salento - Lecce (IT)
[5] National Institute for Nuclear Physics – INFN, Section of Lecce - Lecce (IT)
[6] Department of Mathematics and Physics "Ennio De Giorgi", Univ. Salent - Lecce (IT)

#197 Stability of layered double hydroxide coatings immersed in buffers and microbial nutritive media
S. Sharma, S. Soulé, F. Quilès
LCPME, UMR 7564, Univ. Lorraine-CNRS - Nancy (FR)

Last update: 14 April 2026

Poster Session #2 – Wednesday 9 June (16:50 – 18:20)

TRIBO / Protective & tribological coatings

#046 Impact of hot isostatic pressing on the microstructure of AISI 316L austenitic steel processed by laser direct energy deposition
Z. Jansa[1], D. Bricin[2], D. Janova[3], Z. Špirit[2], P. Beneš[2], D. Kubatova[4], J. Kotous[5]
[1] Univ. West Bohemia - New Technologie Research Centre - Pilsen (CZ)
[2] Centrum výzkumu Rez s.r.o. - Pilsen (CZ)
[3] Department of Material Science and Technology, Univ. West Bohemia - Pilsen (CZ)
[4] Faculty of Mechanical Engineering, Pilsen - Pilsen (CZ)
[5] COMTES FHT a.s. - Pilsen (CZ)

#062 Influence of selective Nb^+ ion acceleration during HiPIMS on the microstructure and mechanical properties of bcc-CrN-rich coatings
S. Jathar[1], S. Honnali[1], A. Febvrier[1], D. Lundin[2], G. Greczynski[2], M. Oden[3], P. Eklund[1]
[1] Inorganic chemistry department - Ångstrom laboratory, Uppsala Univ. - Uppsala (SE)
[2] Thin Film Physics Division, Dpt. Physics and Biology, Linköping Univ. - Linköping (SE)
[3] Nanostructured Materials Div., Dpt. Physics, Chemistry and Biology, Linköping Univ. - Linköping (SE)

#070 Coaxial Axisymetrics Magnetron Sputtering (CAMS)
C. Ballage[1], A. Kapran[1], T. Minea[2]
[1] Centre National de la Recherche Scientifique - Orsay (FR)
[2] Univ. Paris-Saclay - Orsay (FR)

#075 Study on property regulation of Diamond-Like Carbon films prepared by RF ion source-assisted High-Power Impulse Magnetron Sputtering (HiPIMS)
X. Liu, J. Dongxu, G. Jianying, M. Guojia
AVIC Manufacturing Technology Institute - Beijing (CN)

#158 Reassessing temperature requirements during Ar ion etching of cemented carbide cutting inserts in cathodic arc deposition
M. Schiester[1], V. Rudelstorfer[2], M. Pohler[3], C. Czettl[3], N. Schalk[4], M. Tkadletz[1]
[1] C. Doppler Lab. Sustainable Hard Coatings, Dpt. Materials Science, Montanuniv. Leoben - Leoben (AT)
[2] Materials Center Leoben Forschung GmbH - Leoben (AT)
[3] CERATIZIT Austria GmbH - Reutte (AT)
[4] Chair of Functional Materials and Materials Systems, Dpt. Materials Science, Montanuniv. Leoben (AT)

#162 Towards sustainable hard coatings: Microstructure and thermal stability of TiAlWN thin films
L. Kölbl[1], C. Cui[1], M. Pohler[2], C. Czettl[2], M. Tkadletz[1]
[1] C. Doppler Lab. Sustainable Hard Coatings, Dpt. Materials Science, Montanuniv. Leoben - Leoben (AT)
[2] CERATIZIT Austria GmbH - Reutte (AT)

#205 Enhancement of TBC top-coats via nanolayered YSZ/Al_2O_3 multilayers processed by magnetron sputtering: thermal stability and structural investigation
I. Toumi[1], S. Achache[2], A. Alhussein[2], B. Panicaud[1]
[1] Université de Technologie de Troyes (UTT) - Troyes (FR)
[2] Université de Technologie de Troyes (UTT) - Nogent (FR)

#235 Investigating the tribo-corrosion performance of (AlCrNbSiTi)N thin films
V. Joru[1], B. Challarapu[2], S. Katta[1], N.W. P[2], S.P. Pardhasaradhi[1], V.G. Kotnur[1]
[1] Univ. Hyderabad - Hyderabad (IN)
[2] Int. Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) - Hyderabad (IN)