

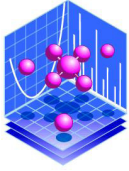
6th International GD Day

The Rendez-vous of the «GD and friends» community

Topics

- New frontiers in GD-OES
- GD-TOFMS: state of the art
- Applications Oxidation and Corrosion
- Researches and trends in GD
- Applications Biomedical, Glasses and PV

2012, September 21st



7h30 **Registration & posters hanging**

Posters will be on display the whole day, poster presenters will have a few minutes in the corresponding sessions to introduce themselves and main results.

8h50 **New frontiers in GD-OES**

Chairman: A. Tempez

9h00 GD-OES Applications on Hard Disks - Composition and Thickness of Ultrathin Multilayer Films
S. Liang, Seagate (USA)

9h20 Sputter Depth profiling of Mo/Si and B4C/Mo/Si multilayer structures by GD-OES, TOFSIMS, magnetic SIMS, and TOF-LEIS: round robin characterization
A Tolstoguzov, University of Lisbon (Portugal)

9h40 Poster Presentation

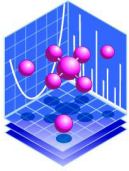
- P01: RF GD-OES for plasma etching of Titanium alloys
E Marin, A Lanzutti, L. Fedrizzi, University of Udine (Italy)
- P02: Nanostructuring surfaces by GD bombardment: AFM/SEM observations
R. Escobar, ICMM Madrid (Spain)
- P03: GD Preparation for EBSD observation of tungsten carbide samples
R. Useldinger, M. Penoy, R. Demeyer, Ceratizit (Luxembourg)
- P04: MYR™ : New approach of GD depth profiling
M Kloul, Y. Popov, R. Escobar, P. Chapon, HJY, ICMM Madrid (Spain)

10h10 **GD-TOFMS: State of the art**

Chairman: R. Escobar

Depth Profile analysis of ultra-low energy implants and self-assembled nanostructures by GD-TOFMS
B. Fernandez, University of Oviedo (Spain)

10h25 **Presentation to be confirmed**
Agnès Tempez, HORIBA Scientific



10h40 Poster Presentation

- P05: Pulsed GD-TOFMS as a powerful screening tool for detection of polymeric flame retardants
C. Gonzalez de Vega, University of Oviedo (Spain)
- P06: Plasma Profiling Time-of-Flight Mass Spectrometry developments and applications
S. Legendre, HORIBA Scientific
- P07: Phenomenological simulations for TOFMS data treatment
O. Peregodov, University of Kiev (Ukraine)
- P08: Metastable atoms assisted ionization phenomena in GD-MS
A. Surmeian, A. Groza, C. Diplasu, M. Ganciu, A. Tempez, NILPRP (Romania)

11h00 _____ **Break & Poster session** _____

11h45 _____ **Applications Oxidation/Corrosion** _____

Chairman: S. Mathieu

Analysis of Light Element Distribution in Oxidation products on High Temperature Alloys

L. Niewolak, V. Shemet, W. Nowak, W.J. Quadackers, FZ Julich (Germany)

12h00 Complementary use of RF GD-OES and electrochemical micro-cell for the investigation of aluminized steel

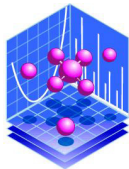
A. Lanzutti, F. Andreatta, E. Marin, I. Shoukens, I. De Gareve, H. Terryn, L. Fedrizzi, University of Udine (Italy), University of Bruxelles (Belgium)

12h15 The alkaline degradation of phosphate conversion coatings: a quantitative investigation using combined GD-OES and atomic emission spectroelectrochemistry

L. Jiang, K. Ogle, ENSCP (France)

12h30 Poster Presentation

- P09: New coatings replacing phosphatation
F. Niveau, C. Dupuet, Renault (France)
- P10: To be defined
V. Naik



- P11: Quantitative GD Analysis of Oxide layers, issues and possible solutions
S. Vitale, P. Raynaud, Th. Nelis, Bern University (Switzerland)
- P12: Analysis of Thermal Barrier Coatings on Stainless Steel Surface by Glow Discharge Spectrometry
C. Yang, X. Song, F. Li, Beijing Institute of Aeronautical Materials (China)
- P13: VUV analysis: N₂ purge quality & N₂ generation
T. Suire, Nitrocraft (France)

13h00

Lunch & Poster session

HORIBA Scientific Corner
R. Toutain (GD Service), Y. Popov (GD Software)

15h30

Researches & Trends in GD

Chairman: S. Legendre

Magnetically boosted radiofrequency GD-OES: new perspectives and expectations

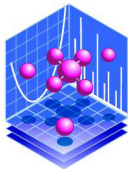
N. Bordel, University of Oviedo (Spain)

15h55 Applicability of RF GD-OES for measurements of ultra-thin films, dielectric layers, rough and porous thick coatings

Ph.V. Kiruhancev-Korneev, Moscow Institute of Steel and Alloys (Russia)

16h15 Poster Presentation

- P14: The role of nanoparticles in engineering coatings
M. Bumiller, HORIBA Scientific
- P15: Influence of signal parameters and materials on radio frequency glow discharge
L. Thérèse, Ph. Belenguer, Ph. Guillot, University of Albi (France)
- P16: Magnetic field assisted glow discharges : examples of GD-OES and GD-MS
M. Ganciu, C. Diplasu, A. Groza, A. Surmeian, A. Tempez, P. Chapon, NILPRP (Romania)
- P17: Recent advances of Quantum software : improved quantification and results treatment
C. Olivero, Y. Popov, HORIBA Scientific



- P18: Atmospheric Pressure Glow Discharges
J. Orejas Ibañez, University of Oviedo (Spain)
- P19: Thin film controlled erosion by GD-OES for XANES depth profiling.
R. Torres, I. Caretti, R. Escobar Galindo, I. Jiménez, ICMM (Spain)
- P20: GD-OES and GD-TOFMS characterization of polymer layers generated in corona discharge assisted anodized process
A.Groza, A.Surmeian, C.Diplasu, M.Ganciu, NILPRP (Romania)

16h30

Applications Biomedical/ Glasses/ PV

Chairman: C. Olivero

Silver segregation in biomedical coatings

R. Escobar, ICMM (Spain)

16h50 Glow Discharge Techniques in the Analysis of Photovoltaic Materials

S. Schmitt, Max Planck Institute for the Science of Light Erlangen (Germany)

17h10 Poster Presentation

- P21: Characterization of CZTS_xSe_{1-x} thin films for photovoltaic applications
G. Altamura, L. Grenet, C. Bougerol, A. Brioude, S. Perraud, H. Mariette, CEA (France)
- P22: Study of Crystallographic Properties and Elemental Migration in two-stage prepared Cu(In,Al)Se₂
R. Aninat, G. Zoppi, University of Norhumbria (UK)
- P23: Surface and depth profile analysis of non conductive samples : progress of GD in the last years
Ph. Le Coustumer, M. Motelica, F. Amin, F. Huneau, S. Galaup, University of Bordeaux (France)
- P24: Use of GD-OES in the rapid estimation of carbon content in p-doped window layer in thin film silicon solar cells
P. Bulkin, S. Gaiaschi, E. Johnson, D. Daineka, P. Roca i Cabarrocas, LPICM Ecole Polytechnique (France)
- P25: Multitechnique approach to thin films characterisation in PV
D.Mercier, M. Bouttemy, J. Vignerot, I. Gérard, N. Naghavi, J.F. Guillemoles, J.L. Pelouard, D. Lincot, A. Etcheberry, Institut Lavoisier & IPVF (France)

18h00

Farewell drink
