



**ICAMANA**  
International Conference  
on Advanced Materials, Nanosciences  
and Applications

# International Conference on Advanced Materials, Nanosciences and Applications & Training school in Spectroscopies for Environment and Nanochemistry

## Scientific Program

December  
10th-13th, 2019  
Oujda Morocco

# General Program of the ICAMANA@2019 Conference

**Tuesday, December 10**

## Afternoon

<b>13:00</b>	<b>Registration of participants</b>
<b>15:00 – 15:30</b>	<b>Official Opening Ceremony</b>
<b>15:30 – 16:10</b>	<b>Reception</b>
<b>Chairmen : Prof. Y. GARCIA and Prof. A. OULMIDI</b>	
<b>16:10 – 17:10</b>	<b>School (1)</b> Dr. J.M. GRENECHE, <b>France</b> <sup>57</sup> Fe Mössbauer spectrometry applied to solid state chemistry and physics
<b>17:10 – 17:40</b>	<b>Keynote (1)</b> Prof. Laurent Fontaine, <b>France</b> Polymers and click chemistry for the development of smart materials: From functional organic nanoparticles to hybrid systems for magnetic hyperthermia
<b>17:40 – 18:30</b>	<b>School (2)</b> Prof. J.-M. R. GENIN, <b>France</b> Green rusts and green chemistry in the struggle against green tides

**Wednesday, December 11**

## Morning

<b>Chairmen: Prof. A. EL IDRISSE and Prof. L. FONTAINE</b>	
<b>09:00 – 10:00</b>	<b>School (3)</b> Prof. Joulia Larionova, <b>France</b> Prussian blue type nano-objects: new opportunities for old materials
<b>10:00 – 10:30</b>	<b>Keynote (2)</b> Prof. Junhu Wang, <b>China</b> Synthesis and characterization of nanostructured Prussian blue analogues and their applications in highly efficient cesium adsorption and organic pollutant degradation
<b>10:30 – 11:00</b>	<b>Keynote (3)</b> Prof. M.A.F. FAUSTINO, <b>Portugal</b> Recent advances on porphyrinic based materials chemistry and potential applications
<b>11:00 – 11:30</b>	<b>Coffee/Tea Break/Posters</b>
<b>11:30– 12:40</b>	<b>First session</b> : Material and biomaterial composites <b>Chairmen:</b> Prof. A. ZARROUK and Prof. F. DERRIDJ
	<b>Second session</b> : Hybrid materials <b>Chairmen:</b> Prof. F. MALEK and Prof. R. KHIARI
	<b>Third session</b> : Nanochemistry, nanomaterials, micro and nano encapsulation <b>Chairmen:</b> Prof. A. CHELLIOUI and Prof. J.-M. R. GENIN
	<b>Fourth session</b> : Spectroscopy at the service of materials <b>Chairmen:</b> Prof. A. EL HIMRI and Prof. J. WANG
	<b>Fifth session</b> : Molecular spintronics and spin crossover systems <b>Chairmen:</b> Prof. Y. KARZAZI and Prof. J. LARIONOVA

	<b>Sixth session</b> : Molecules and Surfaces <b>Chairmen:</b> Prof. A. MAAROUFI and Prof. M.A.F. FAUSTINO
<b>Chairmen:</b> Prof. B. HAMMOUTI and Prof. A. TALEB	
12:40– 13:10	<b>Keynote (4)</b> Dr. J.M. GRENECHE, <b>France</b> <sup>57</sup> Fe Mössbauer spectrometry applied to magnetic nanostructures
13:10– 13:40	<b>Keynote (5)</b> Prof. Mohammed J. MEZIANI, <b>USA</b> A facile strategy for the preparation of composite Resin incorporating silver and magnetic nanoparticles with enhanced antibacterial properties
13:40– 14:30	<b>Lunch</b>
<b>Afternoon</b>	
<b>Chairmen:</b> Prof. Y. GARCIA and Prof. S. RADI	
15:00 – 16:00	<b>School (4)</b> Dr. Pierre-Emmanuel LIPPENS, <b>France</b> DFT and Mössbauer spectroscopy to understand electrochemical mechanisms in tin based electrode materials for alkali-ion batteries
16:00 – 16:30	<b>Keynote (6)</b> Prof. Gerard ŚLIWIŃSKI, <b>Poland</b> Spintronic thin films for hybrid nano-devices
16:30 – 17:00	<b>Keynote (7)</b> Prof. Abdelhafed TALEB, <b>France</b> Hybrid nanomaterials: Toward Materials and properties on demand for a given application
17:00 – 17:30	<b>Coffee/Tea Break/Posters</b>
<b>Chairmen:</b> Prof. E. A. BAZZAOUI and Prof. M. J. MEZIANI	
17:30 – 18:00	<b>School (5)</b> Dr. Mathieu Duttine, <b>France</b> Electronic Paramagnetic Resonance of some inorganic compounds with various optical or magnetic properties
18:00 – 18:30	<b>School (6)</b> Prof. JIWEI MA, <b>Chine</b> Exploiting Defects in Oxides for Rechargeable Batteries



## Thursday, December 12

Morning	
<b>Chairmen:</b> Prof. O. SENHAJI and Prof. M.G.P.S. NEVES	
<b>09:00 – 10:00</b>	<b>School (7)</b> Prof. Smail Triki, <b>France</b> From Molecules to Materials: towards multifunctional switchable systems
<b>10:00 – 10:30</b>	<b>Keynote (8)</b> Dr. Grace Morgan, <b>Ireland</b> Engineering Spin Crossover Molecules into Nanomaterials
<b>10:30 - 11:00</b>	<b>Keynote (9)</b> Prof. Pedro Fardim, <b>Finland</b> Opochemical engineering of porous cellulose-based hybrid functional materials
<b>11:00 – 11:30</b>	<b>Coffee/Tea Break/Posters</b>
<b>11:30– 12:40</b>	<b>First session</b> : Material and biomaterial composites <b>Chairmen:</b> Prof. A. EL BACHIRI and Prof. J. LARIONOVA
	<b>Second session</b> : Hybrid materials <b>Chairmen:</b> Prof. A. TAHANI and Prof. P. FARDIM
	<b>Third session</b> : Nanochemistry, nanomaterials, micro and nano encapsulation <b>Chairmen:</b> Prof. S. SALHI and Prof. S. TRIKI
	<b>Fourth session</b> : Spectroscopy at the service of materials <b>Chairmen:</b> Prof. A. BOUALLOU and Dr. G. MORGAN
	<b>Fifth session</b> : Molecular spintronics and spin crossover systems <b>Chairmen:</b> Prof. A. BOULOIUZ and Prof. S. TABTI
	<b>Sixth session</b> : Molecules and Surfaces <b>Chairmen:</b> Prof. A. AOUNITI and Prof. A. DJEDOUANI
<b>Chairmen:</b> Prof. B. EL OUADI and Prof. E. GHARIBI	
<b>12:40– 13:10</b>	<b>Keynote (10)</b> Prof. Abdelali OUDRISS, <b>France</b> Influence of hydrogen adsorption/absorption on passivation and dissolution mechanisms of 316LN stainless steel
<b>13:10– 13:40</b>	<b>Keynote (11)</b> Prof. D.B. LEZNOFF, <b>Canada</b> Cyanide-based coordination polymers as advanced materials
<b>13:40– 14:30</b>	<b>Lunch</b>
Afternoon	
<b>Chairmen:</b> Prof. M. BOUACHRINE and Prof. G. ŚLIWIŃSKI	
<b>14:30 – 15:00</b>	<b>Keynote (12)</b> Prof. El Arbi Bazzaoui, <b>Morocco</b> Metallic substrates, colloidal nanoparticles and fractal structures for surface-enhanced Raman scattering investigation of electronically conducting polymers
<b>15:00 – 16:00</b>	<b>School (8)</b> Prof. Kamel BOUKHEDDADEN, <b>France</b> The bistable spin transition molecular Solids: from the physical property to the crystal imaging through the phase transition
<b>16:00 – 16:30</b>	<b>Keynote (13)</b> Dr. Aurelian ROTARU, <b>Romania</b> Conductivity and Permittivity Switching in Molecular Spin Crossover Solids
<b>16:30 – 17:00</b>	<b>Keynote (14)</b> Dr. Paulo N. Martinho, <b>Portugal</b> Is Fe(III) the new king of spin crossover's iron throne?

<b>17:00 – 17:30</b>	<b>Coffee/Tea Break/Posters</b>
<b>Chairmen:</b> Prof. M. Duttine and Prof. D.B. LEZNOFF	
<b>17:30 – 18:00</b>	<b>Keynote (15)</b> Dr. T. SZUMIATA, <b>Poland</b> Studies of polluted environmental samples by Mössbauer spectroscopy and magnetic methods
<b>18:00 – 18:30</b>	<b>Keynote (16)</b> Prof. Tarik CHAFIK, <b>Morocco</b> Biogas reforming with CO <sub>2</sub> using an innovative Catalyst based on local extruded clay monolith
<b>Friday, December 13</b>	
<b>Morning</b>	
<b>Chairmen:</b> Prof. JIWEI MA and Prof. A. BOULAHNA	
<b>09:00 – 10:00</b>	<b>School (9)</b> Prof. Mario Ruben, <b>Germany</b> Molecular Devices for Quantum Algorithms
<b>10:00 – 10:30</b>	<b>Keynote (17)</b> Dr. H. N. MIRAS, <b>Glasgow</b> Polyoxometalate and Chalcocite Molecular Systems: From Self-Assembly to Functionality
<b>10:30 - 11:00</b>	<b>Keynote (18)</b> Prof. Gonzalo Abellán, <b>Germany</b> Giant Enhancement in the Supercapacitance of NiFe–Graphene Nanocomposites Induced by a Magnetic Field
<b>11:00 – 11:30</b>	<b>Coffee/Tea Break/Posters</b>
<b>11:30– 12:40</b>	<b>First session</b> : Material and biomaterial composites <b>Chairmen:</b> Prof. A. OULMIDI and Dr. H. N. MIRAS
	<b>Second session</b> : Hybrid materials <b>Chairmen:</b> Prof. M. EL KODADI and Prof. M. RUBEN
	<b>First session</b> : Material and biomaterial composites <b>Chairmen:</b> Prof M. RAMDANI and Prof T. CHAFIK
	<b>Second session</b> : Hybrid materials <b>Chairmen:</b> Prof M. BOUKLAH and Dr T. SZUMIATA
	<b>First session</b> : Material and biomaterial composites <b>Chairmen:</b> Prof. F. JEFFALI and Dr. P.N. MARTINHO
	<b>Sixth session</b> : Molecules and Surfaces <b>Chairmen:</b> Prof. A. CHETOUANI and Dr A. ROTARU
<b>Chairmen:</b> Prof. G. ABELLÁN and Prof. M. ELASRI	
<b>12:40– 13:10</b>	<b>Keynote (19)</b> Prof. Michael L. Singleton, <b>Belgium</b> Controlling Structure and Self-Assembly Pathways in Bioinspired Self-Organized Molecules
<b>13:10– 13:40</b>	<b>Keynote (20)</b> Dr. Mathieu Duttine, <b>France</b> Le fer au Cœur des Phosphates se dévoile... Apports de la spectrométrie Mössbauer
<b>13:40– 14:30</b>	<b>Lunch</b>
<b>Awards and Closing</b>	

# Detailed Program of the ICAMANA@2019 Conference

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<b>Posters</b>	
<b>Chairmen:</b> Prof. S. SALHI	
11:00 – 11:30	<p><b>CP1. ID503:</b> M. Jerroudi, L. Bih, M. Haddad, M. Azrou, B. Manoun, P. Lazor, Physical, Structural and optical properties of mixed Na<sub>2</sub>O and K<sub>2</sub>O in manganese phosphate glasses</p> <p><b>CP2. ID104:</b> Ahlem Houaria, Mohammed Belhadj, Abdelkader Mahi, Rachid Derbal, Study of the effect of temperature on the carbonation of pozzolanic concrete</p> <p><b>CP3. ID107:</b> Faiza Kakaa, Mosbah Ferkhi, Hakim Bensabra, Mesbah Lahoual, Marielle Eyraud, Study of the biocompatibility of titanium used as orthodontic implant saliva-Effect of surface treatment.</p> <p><b>CP4. ID113:</b> E. Elmahboub, A. Elhichou, and M. Mansori, Zinc chloride as precursors to</p>

elaborate zinc oxide with spin coating technique

- CP5. ID119:** Bouchama Idris, Zouache Rafik, Mehnana Fateh, Experimental Study of Quaternary  $\text{CuIn}_{0.7}\text{G}_{0.3}\text{Se}_2$  Materials Using Low-Cost Methods for Photovoltaic Applications
- CP6. ID131:** M. EL KHABCHI, M. MCHARFI, M.BENZAKOUR, A. TOUIMI BENJELLOUN, Conformational preferences of azaalanine and azaproline containing peptides with the M06-2X/6-311++G(d,p) functional
- CP7. ID136:** Ahmed Boukhari, Ahmed Bakora, Mohamed Bourada, Abdelouahed Tounsi, Study of wave propagation on Advanced Composite Materials Structures
- CP8. ID139:** Boudeghdegh Kamel, Mendaci Sonia, Boulaiche Khaled and Benkacem Samra, : Impact of the glass waste of the glazes on the behavior of the opaque glazes for sanitary ceramic-ware
- CP9. ID140:** Ahmed Bakora ,Boukhari Ahmed , Bourada fouad , Abdelouahed Tounsi, Bourada Mohamed, Free vibration analysis of functionally graded rectangular nano-plate
- CP10. ID141:** A. ZERROUKI , M. TALEB, S. EL KADIRI, Synthesis of some new tripodal compounds based on 1,2,4-triazole units
- CP11. ID142:** A. ZERROUKI , M. TALEB, S. EL KADIRI, Novel class of multi-tripodal pyrazole-based ligands as templates for dendrimers design: Synthesis, characterization and Catechol Oxidase activity
- CP12. ID143:** Mustapha Bouterfas, Soufiane Fadlaoui, Abdelhafid Chafi, Ecotoxicology and health impact of pesticides used by farmers in the Triffa plain
- CP13. ID200:** Zakaria Hafidi, M. Ait Taleb, Abdallah Amedlous, Mohammed El Achouri, Micellar catalysis of cross condensation reaction (Claisen-Schmidt): Study of the catalytic properties of aminoalcohol-based surfactants with different polar heads
- CP14. ID209:** Alimi Latifa, Boukhezar Skander, Sassane Nacira, Hassani Mohamed, GuettafTemam Taher, Bedoud Khoulood, Experimental study on a composite PMMA/glass fibers used in the manufacture of orthopedic prostheses
- CP15. ID213:** El Bahri Ould Chikh, Hadj Miloud Meddah, Khellafi Habib, Parametric study of the polymeric materials weldability by friction stir welding technique (FSW)
- CP16. ID214:** I. Hajji , Y. Kaddouri, M. El Kodadi , A. Boulouiz, B. Hammouti, R. Touzani, Liquid-solid extraction of heavy metals (Pb (II), Cu (II), and Cd (II)) by organic materials based on pyrazolo
- CP17. ID215:** M. BENTOUMI, H.HADIDANE , A. MDARHRI, Mechanical behavior of inorganic materials from a Vickers indentation test: Application to the Heavy Flint and Ceramic glass
- CP18. ID219:** Soraya Nigri, Rayenne. Djemil, Boulanouar. Messaoudi, Rabah. Oumeddour, Corrosion inhibition of copper in 1M  $\text{HNO}_3$  solution by oleic acid: weight loss, electrochemical methods and quantum chemical calculations
- CP19. ID221:** M. Sabbahi ,A. Tahani , A. El Bachiri, Determination of rosmarinic acid in rosemary leaves by high-performance liquid chromatography in Eastern Morocco
- CP20. ID222:** Mahmoud Charef, Zahra Fadlaoui, Mohamed Taouti, Djamel Boutassouna, Crystal violet removal by adsorption on raw and modified lemon peel
- CP21. ID301:** A.El Guerraf, S. Ben Jadi, M. Bouabdallaoui, Z. Aouzal, R. Wang, M. Bazzaoui And E.A. Bazzaoui, SERS analysis of polypyrrole chains embedded within fractal leaf-shaped silver crystals
- CP22. ID307:** Lemya Bouamama, Amel Lounis, Arezki Mokrani, Abelhamid Ziane, Theoretical study on diffusion mechanism of fluorine atom adsorbed on Si (001)-p (2-2) reconstructed surface
- CP23. ID722:** JiachenSun, NéstorGuijarro, Jun Ho Yum, ZhimingM. Wang, KevinSivula,  $\text{CuInGaS}_2$ Thin Films in Hydrogen Production and  $\text{CO}_2$ Reduction Reaction

	<p><b>CP24. ID308:</b> R. DJEMIL, B. Messaoudi, M. CHERIET, B. BENCHEIKH, N. LACHI and, D. Khatmi, Molecular docking of the inhibition of cyp3a4 by grapefruit juice</p> <p><b>CP25. ID310:</b> Noubel Guermat, Warda Daranf, Mehdi Khalfallah, Kamel Mirouh, Badreddine Bouchouachi, Abdelhalim Larbi, Synthesis and characterization of SnO<sub>2</sub>:Ni thin films grown by spray pyrolysis</p>
11:30– 12:40	<p><b>First session : Material and biomaterial composites</b></p> <p style="text-align: center;"><b>(Room 1)</b></p> <p><b>Chairmen:</b> Prof. A. ZARROUK and Prof. F. DERRIDJ</p> <p><b>CO1. ID101:</b> Oumaima Nasry, Adil Alaoui Hafidi, Abderrahim Samaouali, Chemical and thermal characterization of high volume of glass powder mortar</p> <p><b>CO2. ID102:</b> Hayat El Ouafy, Tarik El Ouafy, Mustapha Oubenali, Aziz El Haimouti, Moulay Abderrahim El Mhammedi, Mbarki Mohamed, Malika Echajia, Effect of clay on the distinction of electrochemical activity of paracetamol and ibuprofen to the carbon paste electrode</p> <p><b>CO3. ID106:</b> Achraf Harrou, Safae Oumnih, Meriam El Ouahabi, Nathalie Fagel, Elkhadir Gharibi, Physico-mechanical behavior of solid waste-bentonite-lime based mixtures</p> <p><b>CO4. ID109:</b> Sara Baya, Lahcen Messaoudi, Elaboration and characterization of a low-cost ceramic membrane made of natural Moroccan clay and study of the permeability of this membrane</p> <p><b>CO5. ID110:</b> M. Lakrat, E. Mejdoubi, C. Santos, A. Lamhamdi, k. Azzaoui, New apatite cement based on brushite and alkali silica solution</p> <p><b>CO6. ID114:</b> Souheyla BOUDJEMA, Mostapha Zerruki, Abderrahim Choukchou-Braham, Preparation, characterization and application in cyclohexene oxidation of mesoporous silica pillared clay incorporated with tungstophospho(aqua)ruthenate acid</p> <p><b>CO7. ID115:</b> S.KARA SLIMANE, A. BENOSMAN, Adsorption of anionic dyes by cross-linked chitosan-polyaniline composite</p> <p><b>CO8. ID318:</b> Fatima Ezzahra TITCHOU, Rachid AIT AKBOUR, Abdelaziz AIT ADDI, Ali ASSABBANE, Mohamed HAMDANI, Adsorption of methylene blue on Moroccan pozzolana: isotherm, kinetics and thermodynamic studies</p> <p><b>CO9. ID405:</b> Naoual AL ARMOUZI, Ahmed LIBA, Mustapha MABROUKI, Structural and optical properties of Sn doped ZnO- using sol gel method</p> <p><b>CO10. ID416:</b> E.H. LAHRAR, O. EL GHADRAOUI, A. HARRACH, M. ZOUHAIRI, T. LAMCHARFI And E.H. EL GHADRAOUI, physico-chemical properties of strontium-doped PbTiO<sub>3</sub> synthesized by the hydrothermal process</p>
	11:30– 12:40



cellulose acetate: Design, characterization and adsorption study of Pb(II), Cu(II), Cd(II) and Zn(II) ions

**CO16. ID132:** A. M. NZENGUET, Y. ESSAMLALI, M. ZAHOUILY, Novel slow-release Starch/Polyacrylamide/Graphene oxide-NPK fertilizer: swelling, mechanical and release properties

**CO17. ID201:** Mohammed Majdoub, Younes Essamlali, Mohamed Zahouily, Biosourced tough elastomeric polyurethane/organophilic graphene nanocomposites films as advanced high performance materials

**CO18. ID202:** Z. Hadjou Belaid, F. Abdoune, D. Beroguaia, L. Benhabib, L. Méchernène, Thermal study of photo-polymerization reaction in polyacrylate/liquid crystal blends

**CO19. ID203:** M. Idboumlik, N. Hamdi, A.F.I. Ngopoh, E. Bendeif, B. El Bali, M. Lachkar, Synthesis and structural characterization of a new polyoxovanadates based on decavanadate  $[V_{10}O_{28}]^{6-}$

**CO20. ID300:** Oussama Oulhakem, Samir Briche, Salah Rafqah, Elmountassir Elmouchtari, Mohammed Belaïche, Study of photo-catalysis proprieties of hexadecyltrimethylammonium decatungstate  $[(C_{16}H_{33})N(CH_3)_3]_4[W_{10}O_{32}]$ .

**CO21. ID795:** Mohamed EL MASSAOUDI, Smaail RADI, Marilena FERBINTEANU, Yann GARCIA, New organic-inorganic material based on silica gel and NNN pincer ligand to coordinate and remove CuII and other heavy metals from wastewater

**CO22. ID805:** S. ALLAOUI, M. Naciri Bennani, H. Ziyat, N. Tijani, N. Ittobane, Synthesis and characterization of Ghassoul Hydrotalcites Membranes (GHTM) for the elimination of polyphenols from olive mill wastewater by microfiltration

**Third session :** Nanochemistry, nanomaterials, micro and nano encapsulation

**(Room 3)**

**Chairmen:** Prof. A. CHELLIOUI and Prof. J.-M. R. GENIN

**CO23. ID125:** Doha Berraouan, Kamal Essifi, Abdesslam Tahani, Preparation of clay polymer-based composites applied to carvacrol release study

**CO24. ID311:** Redouane HAOUNATI, Hassan OUCHTAK, Amane JADA, Jamaa DOUCH, Feryal AKBAL, Abdelaziz AIT ADDI, Preparation of novel nanocomposite based on clay and surfactant with excellent adsorption performance for removal of dye toxic

**CO25. ID314:** Naous Mohamed, Farida Bouanani, Soledad Rubio Bravo, Extraction of aromatic amines using hybrid nanomaterials in magnetic solid-phase

**CO26. ID316:** J. Chenouf, M. Boutahir, B. Fakrach, A.H. Rahmani, H. Chadli and A. Rahmani, Charge Transfer in Bithiophene encapsulated in Single Wall Carbon Nanotube Using Theoretical Infrared Spectra

**CO27. ID402:** Zaharaddeen Muhammad, Misbahu Saaid Ahmad, Geetha Bhavani, SYNTHESIS, CHARACTERIZATION AND PROPERTIES OF ZNO-POLYANILINE NANOCOMPOSITE

**CO28. ID403:** Misbahu Said Ahmad, Zaharaddeen Muhammad, Rozida Mohd. Khalid, Deep eutectic solvents based and binary solvents based microwave assisted extraction of lichen *dirinariaapplanata*

**CO29. ID409:** K. Tanji, A. Chaqroune, A. Kherbeche, Doped Zinc Oxide Nanoparticles for wastewater treatment: Synthesis and Applications

**CO30. ID761:** Sidi Abdelmajid AIT ABDELKADER, Mourad BOUTAHIR, Brahim FEKRACH, Abdelhai RAHMANI, Hassan CHADLI, Mouhcine BENTALEB, Abdelali RAHMANI, The effect of Tetra-vacancies defects on the vibrational and electronic properties of carbon nanotubes

**CO31. ID790:** M. Khadraoui, R. Khiari, N. Brosse, L. Bergaoui, E. Mauret, Production of nanofibrillated cellulose from *Posidonia oceanica* through the combined method of steam explosion and tempo-mediated oxidation

11:30– 12:40

11:30– 12:40	<b>Fourth session :</b> Spectroscopy at the service of materials <b>(Room 4)</b>
	<b>Chairmen:</b> Prof. A. EL HIMRI and Prof. J. WANG
	<b>CO32. ID117:</b> Abderrahime Nouayti, Driss Khattach, Mohamed Hilali, Nordine Nouayti Characterization of the mineralization of the Groundwater in high Basin of Guir (Morocco) by geochemical and geostatistical
	<b>CO33. ID400:</b> Abdeslam El Assyry, Bouziane Benali, Denise Mondieig, Spectroscopy of Benzodiazepine-2,4-Dione and N,N-dimethylbenzodiazepine in Solvent
	<b>CO34. ID408:</b> B. Fakrach, O. Boutahir, A.H. Rahmani, M. Boutahir, H. Chadliand A. Rahmani, Vibrational and electronic properties of boron nitride bilayers
	<b>CO35. ID415:</b> S. Amraoui, A. Feraoun, M. Kerouad, First-principle and Monte Carlo calculations of structural, electronic and magnetic properties of the double perovskite Sr <sub>2</sub> TiMoO <sub>6</sub>
	<b>CO36. ID508:</b> Oussama Boutahir, SouhailLakhlifi, Mourad Boutahir, Brahim Fakrach, AbdelhaiRahmani, Hassane Chadli and Abdelali Rahmani, Force constatnt model and Non-resonant Raman calculations of Black-Phosphorene
11:30– 12:40	<b>Fifth session :</b> Molecular spintronics and spin crossover systems <b>(Room 5)</b>
	<b>Chairmen :</b> Prof. Y. KARZAZI and Prof. J. LARIONOVA
	<b>CO39. ID128:</b> M. A. Nassir, M. Boutahir, B. Fakrach, AH. Rahmani. H. Chadliand A. Rahmani, NANODYM software for Molecular Dynamics study of nanomaterials
	<b>CO40. ID137:</b> H. ED-DNOUB, O. EL GHADRAOUI, M. ZOUHAIRI, A. HARRACH, T. LAMCHARFI and E.H. EL GHADRAOUI, Structure and Photocatalytic Performance of NiTiO <sub>3</sub> Powders Synthesized by the Modified Sol–Gel Method
	<b>CO41. ID315:</b> H. Mes-adi, K. Saadouni , M. Sajjeddine , M. Mazroui, Thin film metal growth on Si substrate simulation by molecular dynamic
	<b>CO42. ID708:</b> Ilyass El kADMIRI, Youssef BEN-ALI, Aissam KHALED, Driss BRIA, Acoustic filtering and guiding by the presence of a defect at the closed resonator level's in one-dimensional comb-like photonic structure
	<b>CO43. ID719:</b> S. Bahhar, A. Boutahar, H. Lemziouka, H. Bioud, E. K. Hlil, Structural, magnetic and magnetocaloric properties of ZnLaxFe <sub>2-x</sub> O <sub>4</sub> spinel zinc ferrites
<b>CO44. ID754:</b> Soufyane Khattou, Madiha Amrani, El Houssaine El Boudouti, Cécile Ghouila-Houri, Abdelkrim Talbi, and BahramDjafari-Rouhani, Near-perfect one-way electromagnetic absorbers based on photonic circuits: Theory and experiment	
<b>CO45. ID759:</b> M. Amrani, I. Quotane, C. Ghouila-Houri, E. H. El Boudouti, B. Djafari-Rouhani, B. Piwakowski, L. Krutyanskiy A. Talbi, Bound in continuum states, induced transparency and Fano resonance in solid-liquid multilayers: Theory and Experiment	
	<b>Sixth session :</b> Molecules and Surfaces <b>(Room 6)</b>
	<b>Chairmen:</b> Prof. A. MAAROUFI and Prof. M.A.F. FAUSTINO
	<b>CO46. ID108:</b> Ayman El Bouhali, Tarik Harit, Ibrahim Bouabdallah, Fouad Malek, New generation of triazolic tripods: synthesis, characterization and evaluation of the antibacterial activity
<b>CO47. ID112:</b> M. Bouklah, E. Rahou, A. Bouyanzer, A. Aouniti, B.Hammouti, Electrochemical impedance spectroscopy investigations of steel corrosion in acid media in the presence of	

11:30– 12:40	thiophene derivatives
	<b>CO48. ID124:</b> Ali ELKIHHEL, Amar BAKDID, Hassan GZIRI , Abdelkarim NOUGAOUI, Evaluation of Thermal Losses for Welded Structures
	<b>CO49. ID129:</b> N. AJERMOUN, A.FARAHI, S. LAHRICH,S. SAQRANE, M.A. EL MHAMMEDI, Electro-catalytic detection of imidacloprid using metallic silver electrode
	<b>CO50. ID206:</b> I. Merimi, Y. El Ouadi, R.Benkaddour, H.Oudda, B.Hammouti, Electrochemical and theoretical study in industrial expertise
	<b>CO51. ID210:</b> N.Leguedani, MM. Hafid and R. Ameziane, Electrochemical impedance study of the influence of theine on the corrosion behavior of Co-Cr based dental alloy
	<b>CO52. ID212:</b> Laila Laasri, Mariem El Makhfi, Saïd Sebti, Ecofriendly oxidation of benzyl alcohol to benzaldehyde by using zr-ni/natural phosphate as an efficient and recyclable heterogeneous catalyst
	<b>CO53. ID412:</b> A. RADI, B. El MAHI, A. AOUNITI, M. KADDOURI, A. ZERROUK. M.El MASSOUDI, S. RADI, Y. GARCIA, The effect of coordination compounds on the inhibition of corrosion
	<b>CO54. ID420:</b> Youssef Elmaguana, Najat Elhadiri, Mohamed Bouchdoug, M'barekBenchanaa and Abderrahim Jaouad, Activated carbon from prickly pear seed cake: Optimization of preparation conditions using experimental design and its application in dyes Removal
	<b>CO55. ID421:</b> BoutainaRezki, Younes Essamlali, Mina Aadil, Mohamed Zahouily, Cesium carbonate-fluoroapatite catalyst for efficient conversion of rapeseed oil and waste cooking oil into
<b>CO56. ID724:</b> K. Kradra Brahma, Y. Bouhadda B. Bounaceur and A. Sardi, Experimental Study and Modelling of Asphaltene Flocculation	
<b>CO57. ID735:</b> Y. El Aoufir, S. Skal, H. Lgaz, A. Ghanimi, A. Guenbour, R. Salghi, Corrosion mitigation of mild steel in acidic medium using Fenugreek gum: A combined experimental and theoretical approach	

**Chairmen:** Prof. B. HAMMOUTI and Prof. A. TALEB

12:40– 13:10	<b>Keynote (4)</b> Dr. J.M. GRENECHE, <b>France</b> <sup>57</sup> Fe Mössbauer spectrometry applied to magnetic nanostructures
13:10– 13:40	<b>Keynote (5)</b> Prof. Mohammed J. MEZIANI, <b>USA</b> A facile strategy for the preparation of composite Resin incorporating silver and magnetic nanoparticles with enhanced antibacterial properties
13:40– 14:30	<b>Lunch</b>
<b>Afternoon</b>	
<b>Chairmen:</b> Prof. Y. GARCIA and Prof. S. RADI	
15:00 – 16:00	<b>School (4)</b> Dr. Pierre-Emmanuel LIPPENS, <b>France</b> DFT and Mössbauer spectroscopy to understand electrochemical mechanisms in tin based electrode materials for alkali-ion batteries
16:00 – 16:30	<b>Keynote (6)</b> Prof. Gerard ŚLIWIŃSKI, <b>Poland</b> Spintronic thin films for hybrid nano-devices
16:30 – 17:00	<b>Keynote (7)</b> Prof. Abdelhafed TALEB, <b>France</b> Hybrid nanomaterials: Toward Materials and properties on demand for a given application

**Chairmen:** Prof. S. SALHI

- CP26. ID312:** Blelletta F, Hafid MM, Prevention of the Reaction between Iron Nanoparticles and Alumina Carriers during Sintering Process
- CP27. ID321:** Jamal ACHMANI, Ilham CHRAIBI, VIRTUES OF FLUORITE CASE OF BOU-IZOURAN FLUORITE
- CP28. ID841:** F. LAMBARKI, A. OUASRI, H. ZOUHRI, A. RHANDOUR, Crystal structure, Hirshfeld and vibrational study at ambient temperature of propylammonium pentachlorobismuthate [ $n\text{-C}_3\text{H}_7\text{NH}_3$ ] $_2\text{BiCl}_5$  (III)]
- CP29. ID401:** N. Kichou, N. Guechtouli, K. Ighil Ahriz, Z. Hank, Spectroscopic studies of some transition metal nickel and ruthenium complexes
- CP30. ID406:** N.S.LABIDI, Theoretical assessment of static and dynamic (hyper) polarizabilities of single-walled doped carbon nanotubes: Semi-empirical PM6 study
- CP31. ID411:** El-houssaine Ablouh, Hind El Omari, François Brouillette, Moha Taourirte, Ahmed Belfkira, New method for determining lignocellulosic materials surface energy per Contact Angle
- CP32. ID422:** M. El Rharib, Z. Zaroual, M. Azzi, Characterization of natural product to treat wastewater by adsorption
- CP33. ID409:** Mohamed El Kodadi, Hafsa Allali, Yassine Kaddouri, El Bekkay Yousfi and Rachid Touzani, New tridentate pyrazole compounds using in catalytic study of phenoxazinone synthase
- CP34. ID513:** Mustapha DIB, Hajiba OUCHETTO, Abdellatif ESSOUMHI, Abderrafia HAFID, Khadija OUCHETTO, Mohammed SAJIEDDINE and Mostafa KHOULI, Synthesis and characterization of Ni/Al- Layered double hydroxides with a uniform crystallite size and high specific surface area
- CP35. ID521:** Rabab Boyaala, Rachid Touzani, Thierry Roisnel, Vincent Dorcet, Elsa Caytan, Denis Jacquemin, Julien Boixel, Veronique Guerchais, Henri Doucet, and Jean-François Soulé, Catalyst-Controlled Regiodivergent C–H Arylation Site of Fluorinated 2-Arylpyridine Derivatives: Application to Luminescent Iridium(III) Complexes
- CP36. ID523:** A.KHELFANE, I. T. E BOUDJELLAL, M. DERBAL, M. TABLAOUI, Synthesis and properties of  $\text{MAl}(\text{XO}_4)_2$  crystals (M= Li, K or Na and X= W or Mo)
- CP37. ID528:** Fatima Zahra Aboudamia, Mariem Kharroubi, Mounsef Neffa, Abderrahim Jaouad, Mohamed Bouchdoug, Effect of chitosan extracted from sardine's scales (*Sardina pilchardus*) combined with glucose in the form of complex chitosan glucose on the shelf life of cherry tomatoes fruit (*Lycopersicon esculentum* L.)
- CP38. ID704:** E. AMATERZ, A. BOUDDOUCH, A. TAOUFYQ, A. TARA, B. BAKIZ, A. BENLHACHEMI, L. BAZZI, O. JBARA, Photo-electrocatalytic removal of rhodamine B using  $\text{BaHPO}_4$  electrodes
- CP39. ID531:** Y. Haciane, S. Bouafia, M. Chabani, R. Touzani, Heterogenous photo-Fenton of Tramadol with Maghete and oxalate under solar illumination
- CP40. ID600:** A. Djedouani, M. Yahyaoui, T. N. Mouas, S. Tabti, Y. Benrabah, A. Bouchama, R. Touzani, Synthesis, molecular structure analyses and DFT studies on new asymmetrical azines
- CP41. ID601:** H. CHABBA, M. TAOUFIKI, A. BARROUG, A. JOUAITI, D. DAFIR, Mechanical properties of Al/Mg alloys: a molecular dynamics study
- CP42. ID604:** Y. Lachtioui, M. Kbirou, K. Saadouni & M. Mazroui, Glass formation and structure evolution in the rapidly solidified monatomic metallic liquid Pt under high pressure
- CP43. ID617:** Y. EL HAMDOUNI, L. HERMOUCHE, K. ABBI, S. EL HAJJAJI, N. LABJAR, Detection of Lead (II) in Wastewater by Electrochemical Techniques
- CP44. ID702:** Souaad HAMOUDI, Nacer BEZZI, Farid NSEBAA, Ni- $\text{Al}_2\text{O}_3$  nano-composites thin films obtained by EPD for solar energy Application

17:00 – 17:30



	<p><b>CP45. ID703:</b> Maha Elhawary, Mariam Khachani, Mohammed Kacimi, Abdellah Guenbour, Abdelkbir Bellaouchou, Corrosive features of biodiesel synthesized from Sunflower Oil</p> <p><b>CP46. ID705:</b> Btissam BOUCHAL, Rachid TOUZANI, Mohammed BELLAOUI, Identification of novel antifungal agents: antimicrobial evaluation, SAR, ADME-Tox and molecular docking studies of a series of imidazole derivatives</p> <p><b>CP47. ID711:</b> Driss Lahcene, Brahim Zahraoui, Asma Behilil, Maazouzi Abdelhak, Badri Abdelkader and Abderrahim Choukchou-Braham, Characterization and discoloration of methylene blue dye under solar irradiation by modified clay with ZnO by impregnated method</p> <p><b>CP48. ID713:</b> Brahim Zahraoui, Driss Lahcene, Asma Behilil, Abdelkader Badri and Abdelhak Maazouzi, Characterization by Mössbauer spectroscopy of a clay catalyst pillared by aluminum-iron. Application to removal of chromate from wastewater</p> <p><b>CP49. ID715:</b> Khaoula Abbi, Lina Hermouche, Youssra el hamdouni, EL mostapha lotfi, El mahi mohammed, El hajajji Souad, Skalli Abdelmajid, Najoua Labjar, Determination of cadmium(ii) using a carbon paste electrode modified with a coal extracted from an organic waste waste</p> <p><b>CP50. ID720:</b> M. NACIRI , Y. El Aoufir , A. Ghanimi , A. Guenbour, M. Tabyaoui, M. El Moudane, Studying corrosion: Means of protection and evaluation</p> <p><b>CP51. ID849 :</b> Oumaima Mertah, Kenza El Hajjaji, Abdelali El Gaidoumi, Abdelhak Kherbeche, Photocatalytic removal of inorganic pollutants using a novel TiO<sub>2</sub> modified phosphogypsum</p>
<b>Chairmen:</b> Prof. E. A. BAZZAOUI and Prof. M. J. Meziani	
<b>17:30 – 18:00</b>	<p><b>School (5)</b> Dr. Mathieu Duttine, <b>France</b></p> <p>Electronic Paramagnetic Resonance of some inorganic compounds with various optical or magnetic properties</p>
<b>18:00 – 18:30</b>	<p><b>School (6)</b> Prof. JIWEI MA, <b>China</b></p> <p>Exploiting Defects in Oxides for Rechargeable Batteries</p>

Morning	
Chairmen : Prof. O. SENHAJI and Prof. M.G.P.S. NEVES	
<b>09:00 – 10:00</b>	<b>School (7)</b> Prof. Smail Triki, <b>France</b> From Molecules to Materials: towards multifunctional switchable systems
<b>10:00 – 10:30</b>	<b>Keynote (8)</b> Dr. Grace Morgan, <b>Ireland</b> Engineering Spin Crossover Molecules into Nanomaterials
<b>10:30 - 11:00</b>	<b>Keynote (9)</b> Prof. Pedro Fardim, <b>Finland</b> Opochemical engineering of porous cellulose-based hybrid functional materials
<b>Posters</b>	
<b>Chairmen:</b> Prof. M. EL KODADI	
<b>11:00 – 11:30</b>	<p><b>CP52. ID721:</b> N. HAMDI, S. HIDAOU, R. BENALI-Cheri, R. OUARSAL, M. EZAHRI, B. EL BALI, M. LACHKAR, Synthesis, characterization and Hirshfeld surface analysis of a new layered framework</p> <p><b>CP53. ID727:</b> A.MOUMEN, M.JAMMOUKH, K. MANSOURI, Numerical modeling of the thermo mechanical properties of two keratinous biomaterials</p> <p><b>CP54. ID730:</b> Ahmed Slimi, Adil Touimi Benjelloun, Souad Elkhatabi, Mohammed Benzakour, Mohammed Mcharfi, Mohammed Bouachrine, DFT Modeling of Novel Donor-Acceptor (D-A) Molecules With different acceptors for Bulk Heterojunction Solar Cells</p> <p><b>CP55. ID732:</b> M. Tarnaoui, A. ZAIM AND M. Kerouad, First-principles calculations of elastic, ferroelectric and electrocaloric effect properties of SnTiO<sub>3</sub></p> <p><b>CP56. ID733:</b> Fatima BOUMEDIENE, Faiza DEBAB, Karima BADIS, Haouaria MERINE, Preparation of Simvastatin microspheres using micro-encapsulation by emulsion-solvent evaporation technique</p> <p><b>CP57. ID737:</b> AGRIDA Imad, EL AMRANI Ikram, DAKKACH Mohamed, ATLAMSANI Ahmed, Synthesis of materials based on transition metals in the presence of hydrogen peroxide</p> <p><b>CP58. ID738:</b> N. ACHALHI, A. EL IDRISSE, S. EL BARKANY, Synthesis of new materials based on HEC and anhydride in an aqueous medium</p> <p><b>CP59. ID740:</b> F. El-Hars, M. Abid, M. Belfaqir, M. Hafid, M. Taibi, M. Haddad, Structural Studies of Na<sub>2</sub>O doped bismuth borate glasses by Infrared and Raman spectroscopies</p> <p><b>CP60. ID745:</b> C. Merimi, H. Oudda, B. Hammouti, A. Aouinti, A. Habboubi, R. Touzani, Accreditation of tests on materials of paint concrete and router while showing the quality aspect ISO 17025</p> <p><b>CP61. ID746:</b> Y. Kerroum, S. Skal, Y. El Aoufir, A. Guenbour, A. Bellaouchou, M. Tabyaoui, A. Zarrouk, M. Boudalia, Corrosive effects of fluoride on austenitic stainless steel in phosphoric acid solution</p> <p><b>CP62. ID753:</b> Nadia BOUROUMANE, Rachid TOUZANI, Mourad DAOUBI KHAMLICH, Adyl OUSSAID, Synthesis and characterization of new polynuclear complexes of 1-hydroxymethyl-3,5-dimethylpyrazole with Ba(II)</p> <p><b>CP63. ID757:</b> Wahiba Chaibi, Lamia Bennabi and Kaddour Guemra, Preparation and self-assembly behavior of Poly(methyl methacrylate)-block poly(dimethylamino)propylmethacrylamide amphiphilic diblock copolymer</p>

	<p><b>CP64. ID763:</b> Saouli A., Zarour H. , Saouli C, Simulation of spectral response of SPR multilayers nanostructures detector intended for biomedical application</p> <p><b>CP65. ID766:</b> Mokhtari Ouafae, Imade Hamdani, Laaroussi Hamid, Berrabeh Mohammed, Aouinti Abdelouahad, Hammouti Belkhir, Study of the chemical characterization of Jatropha oil under arid to semi arid climate of eastern Morocco</p> <p><b>CP66. ID767:</b> Khadija Bougrine, Mohammed Abid, Mustafa Hafid, Effect of Zinc oxide on the structure-properties of (35-x) Li<sub>2</sub>O–xZnO–15PbO–50P<sub>2</sub>O<sub>5</sub> glasses</p> <p><b>CP67. ID770:</b> NAJJARI Ilham, F. ERRACHIDI, L. EL GHADRAOUI, F.OUAZZANI CHAHDI, KANDRI RODI, Screening of total phenols and flavonoids extracted from flaxseeds ( <i>Linum usitatissimum</i>) and evaluation of their Antioxidant activities</p> <p><b>CP68. ID776:</b> J. Labrag, C. El Bakkali, I. Es-saidi, A. Laghzizil, Photodegradation of antibiotics in aqueous solution in the presence of metal oxide-hydroxyapatite nanocomposites</p> <p><b>CP69. ID779:</b> Hind Babas, Ghizlane Kaichouh, Mariam Khachani, Miloud El Karbane, Achraf Chakir, Abdellah Guenbour, Abdelkbir Bellaouchou, Evaluation of the removal of a phosphoramidic drug from water by adsorption on perlite</p> <p><b>CP70. ID320:</b> R. Khiari, F. Bettaieb, M. N. Belgacem, A. Dufresne, Preparation and Characterization of Nanofibrillar cellulose from <i>Prunus amygdalus</i>: Mechanical Properties and morphological features</p> <p><b>CP71. ID784:</b> B.Youbi, Y.Lghazi, M.Ait Himiand I.Bimaghra, Electrochemical nucleation and growth mechanism of Bismuth Telluride Bi<sub>2</sub>Te<sub>3</sub> on ITO substrate</p> <p><b>CP72. ID789:</b> A. Nazih, S. Krimi, A. El Jazouli, Elaboration and structural characterization of new vitreous phosphates belonging to Na<sub>2</sub>O – CaO – A<sub>2</sub>O<sub>3</sub> – TiO<sub>2</sub> – P<sub>2</sub>O<sub>5</sub> systems (A=Al, Fe or Cr)DQ</p> <p><b>CP73. ID791:</b> F. EL KALAI,N. BENCHAT, S. DAOUI, M. ALLALI, Y. BRETONNIERE, Synthesis, characterization and study of the optical properties of new heterocycles pyridazin-3(2H)-ones</p> <p><b>CP74. ID792:</b> Ahlem Mnasri, Ramzi Khiari, Nicolas Brosse, Hatem Dhaouadi, Evelyne Mauret, Extraction and characterization of fibers from <i>Posidonia Oceanica</i> using steam explosion</p> <p><b>CP75. ID793:</b> S.Skal, M.Znaidi, Y.Kerroum, H. Amegroud, Y.El Aoufir, A.Guenbour and A.Bellaouchou, Corrosion inhibitor for bronze in drinking water: Gravimetric and Electrochemical methods</p> <p><b>CP76. ID796:</b> M. TAOUFIKI, H.CHABBA, D. DAFIR, A. JOUAITI, A. BARROUG, Mechanical Properties of Aluminium alloys Using Molecular Dynamics Simulation</p>
<b>11:30– 12:40</b>	<p><b>First session</b> : Material and biomaterial composites (Room 1)</p> <p><b>Chairmen</b> Prof. A. EL BACHIRI and Prof. J. LARIONOVA</p> <p><b>CO58. ID116:</b>Anass AIT BENHAMOU; Abdelghani BOUSSETTA; Mehdi NADIFIYINE; and Amine MOUBARIK, Application of isolated cellulose fibers from moroccan cactus in production of polymer-based composites: from elaboration to investigation</p> <p><b>CO59. ID120:</b>Abdelghani BOUSSETTA, Anass AIT BENHAMOU, and Amine MOUBARIK, Development of sustainable bio-composite materials :particleborad bonded with lignin-urea-formaldehyde (UF) adhesive resins</p> <p><b>CO60. ID121:</b>Z. DIDOCHE, K. EZZIANE, E.H. Kadri , M. Adjoudj, Effect of addition type and cement fineness on the mechanical properties of mortars</p> <p><b>CO61. ID133:</b>K.CHOURTI, M. ABOU-SALAMA, P. MARCHET, Y. EL HAFIANE, A. BENDAAHOUand M. KARROUA, Relationships between crystalline structure and dielectric properties in Sr<sub>2</sub>Nd<sub>x</sub>Sm<sub>(1-x)</sub>Ti<sub>2</sub>Nb<sub>3</sub>O<sub>15</sub> ceramics</p> <p><b>CO62. ID229:</b>M. HLAIBI, H. MOUADILI, S. TARHOUCI, S. MAJID, K. TOUAJ, L.</p>

	<p>LEBRUN, Elaboration of Composite Membrane Materials for Oriented Processes of Extraction and Recovery of Pure Value Added Compounds. Parameters and mechanisms</p> <p><b>CO63. ID302:</b>Mouatassim Charai, Haitham Sghiouri, Ahmed Mezrhab, Mustapha Karkri, Comparative study of a clay before and after fired brick-making process</p> <p><b>CO64. ID305:</b> I. Adouar, S. Herradi, S. Rakib, B. El Bali, M. Lachkar, Synthesis and characterization of new biomaterials for agriculture applications</p> <p><b>CO65. ID417:</b>Ahabboud Malika, Lamcharfi Taj-dine, and Abdi Farid, Riethveld refinement and study of the structural and dielectric properties of <math>Pb(Zr_{0.52}Ti_{0.48})_{1-3x/4}Fex</math> ceramics at <math>x=0.00, 0.025, 0.05, 0.075, 0.10, 0.15,</math> and <math>0.20</math> prepared by sol gel method</p> <p><b>CO66. ID418:</b>BOUAYYADI, A. MOUSSAIF, N. EL ABBADI, E.M. ESSASSI, A. MESFIOUI, M. EL MZIBRI, Development of a new GABA-A receptor radioligand from a benzimidazole derivative</p> <p><b>CO67. ID510:</b>O. EL GHADRAOUI, M. ZOUHAIRI, A. HARRACH, T. LAMCHARFI, F. ABDI, E.H. EL GHADRAOUI and M. AILLERIE, Synthesis and structural characterizations of <math>Ba_{1-x}Mg_xTiO_3</math> materials developed by the sol-gel process</p>
<b>11:30– 12:40</b>	<p><b>Second session :</b> Hybrid materials</p> <p style="text-align: center;"><b>(Room 2)</b></p> <p><b>Chairmen:</b> Prof. A. TAHANI and Prof. P. FARDIM</p> <p><b>CO68. ID204:</b>Mohammed Dahmani, A. Titi , A. Et-Touhami, A. Yahyi, R. Touzani, Synthesis, spectroscopic characterizations and catalytic oxidation evaluation of novel organotin (IV) carboxylates based on the pyrazole dicarboxylic acids</p> <p><b>CO69. ID208:</b>M. Raftani, M.N.Bennani and M.Bouachrine, Designof new conjugated material based on DPP and thiophene for BHJ solar cells.</p> <p><b>CO70. ID218:</b>Yahia N. Mabkhot, AbdulrhanAsayari, Abdullatif Bin Muhsinah, H. AlgarnSaied M. Soliman, Nabila A. Kheder, Hazem A. Ghabbour, Yahya Asiri, Mohd. Zaheen Hassan, Synthesis, X-ray Analysis and Computational studies of Novel Bis(2-thienyl)disulfide Derivative</p> <p><b>CO71. ID226:</b>S. HIDAOU, B. EL BALI, M. LACHKAR, Synthesis and characterization of lithium iron zirconium phosphate by coprecipitation method for energy storage application</p> <p><b>CO72. ID230:</b>Imane Aadnan, Omar Zegaoui, Ikram Daou, Synthesis, characterization and photocatalytic properties of new hybrid biomaterials based on ZnO, biomaterials and Bentonite</p> <p><b>CO73. ID231:</b>Asmae Ben Abdelhadi, Mohamed Akouibaa, Rachid Ouarsal, Brahim El Bali, Mohammed Lackar, The structure of a new two-dimensional Halide Perovskites (Tricaesiumtetrachloridozincate (II) chloride)</p> <p><b>CO74. ID232:</b>A. BENAHMED, A. ELIDRISSI, Cellulose acetate –g-polycaprolactone copolymerization using diisocyanate intermediates and the effect of polymer chain length on the mechanical and thermal properties</p> <p><b>CO75. ID319:</b>Cheikh BERGANE, Larbi HAMMADI, Experimental investigation on the rheological properties of seawater-in-crude oil emulsion: Application to an industrial material</p> <p><b>CO76. ID407:</b>Benarbia Abderrahim, ElidrissiAbderrahman, Aqil Mohamed, Amyay Aicha, Bellaouchi Reda, Asehraou Abdeslam, Jalal Isaad, Tahaniabdesselam, Synthesis and Characterization of Branched Polyester: Thermal and Microbial Degradation Studies</p> <p><b>CO77. ID220:</b>F.Z. Dahou, A. Khelil, Study of the interface SNO<sub>2</sub> anode/organic material in solar cells using a thin buffer layer</p> <p><b>CO78. ID818:</b>EL YOUSFI Ridouan, EL IDRISSE Abderrahmane, Controlled architecture of PCL-PVP mictoarm polymer by RAFT method polymerization</p> <p><b>CO79. ID207:</b>S. Daoui, N.Benachat, F. El Kalai, Khalid Karrouchi, Synthesis, coordination and application of new nitrogenous and sulfur containing heterocycles based on</p>



	imidazopyridine-pyrimidine and pyridazine
	<b>Third session :</b> Nanochemistry, nanomaterials, micro and nano encapsulation (Room 3)
	<b>Chairmen:</b> Prof. S. SALHI and Prof. S. TRIKI
11:30– 12:40	<p><b>CO80. ID518:</b> A. AMARRAY, S. EL GHACHTOULI, P. BONNAILLIE, K. KHALESS, M. DAHBI, M. AZZI, Lamellar and nanostructures manganese oxide for efficient Cd(II) and Pb(II) ions removal from aqueous medium</p> <p><b>CO81. ID533:</b> Hassiba BOUGUERIA, Souheyla CHETIOUI, Assia MILI, Salah.Eddine BOUAOUD, Synthesis, Characterization And Applications of Novel Azoic Nanomaterials</p> <p><b>CO82. ID610:</b> O. Abdellaoui, R. Ghibate, M.K. Skalli, A. Haoudi, O. Senhaji, Y. KandriRodi, New surfactant molecules based on isatin, synthesis characterization and micellization property</p> <p><b>CO83. ID611:</b> Kamal Essifi, Doha Berraouan, Mohammed Lakrat, Mohamed Elmiz, Ali El Bachiri, AbdesselamTahani, Optimization of gallic acid encapsulation in calcium alginate beads using Box-Behnken design</p> <p><b>CO84. ID709:</b> M. EL BARGHOUTI, A. AKJOUJ, A. MIR, Plasmonic refractive index sensitivity of silver nanoparticles with graphene coatings layers used for LSPR biosensor applications</p> <p><b>CO85. ID710:</b> A. EL AGRI, A. HAFNAOUI, E. KHOULOUD, M. ELASRI, A. MELIANI, Impact of many surfactant additives on the dispersion of elemental sulphur particles in phosphate fertilizers</p> <p><b>CO86. ID729:</b> M. Ait Himi, S. Elghachtouli, B. Youbi, Y. Lghazi, I. Bimaghra, Effect of electrodeposition conditions on nucleation/growth mechanism, electrical and structural proprieties of manganese oxide</p> <p><b>CO87. ID808:</b> Younes DEHMANI, Sadik ABOURNADASSE, Phenol adsorption on Nickel oxide: isotherm, Kinetic, thermodynamic, and mechanism studies</p> <p><b>CO88. ID834:</b> G. ACHAGRI, A. CHAKIR, M. ZAHOUILY, Facile Fabrication of multifunctional textile fabric coated Octadecylamine-Functionalized graphene nanosheets</p> <p><b>CO89. ID836:</b> Laila SADALLAH, Aziz BENTIS and Said GMOUH, Synthesis of amorphous calcium phosphate nanoparticles (nPh-ACP) for a flame retardant treatment of a cotton fabric</p>
	<b>Fourth session :</b> Spectroscopy at the service of materials (Room 4)
	<b>Chairmen:</b> Prof. A. BOUALLOU and Dr. G. MORGAN
11:30– 12:40	<p><b>CO90. ID734:</b> Y. OUBELKACEM, T. LAMHASNI, A. EL BAKKALI, S. AIT LYAZIDI, M. HADDAD, A. BEN-NCER, Authentication and preservation of archaeological artworks: Spectrometric fingerprinting of coloring materials and evaluation of indoor environmental storage conditions</p> <p><b>CO91. ID758:</b> Imane El Arrouji, Abdallah Oulmekki, Jamil Toyir, Ahmed Harrach, Mostafa Taoufik, Frédéric Lefebvre, Synthesis and spectroscopic studies of Keggin framework cobalt-incorporated polyoxometalates</p> <p><b>CO92. ID783:</b> Ayoub Lazaar, Kamal El Hammouti, Kairm Andich, Muhammad Sohail Memone, Abdelilah Monir, Applications of Vis-NIR spectroscopy proximal sensing to estimate and mapping the calcium carbonates (CaCO<sub>3</sub>) in the semi-arid soils of the Triffa Plain (Morocco)</p> <p><b>CO93. ID810:</b> Y. Kensi, H. Chadli, M. Boutahir, B. Fakrach, A.H. Rahmani, J. Chenouf and A. Rahmani, Infrared and Raman spectra calculations of linear carbon chains inside single-wall carbon nanotubes</p> <p><b>CO94. ID816:</b> MALKIS, EL FARH Larbi, Structural and electronic properties of zinc antimonide ZnSb</p> <p><b>CO95. ID819:</b> E. Haily, L. Bih, A. Elbouari, B. Manoun, Structural, optical, and dielectric properties of Bi<sub>2</sub>O<sub>3</sub>-K<sub>2</sub>O-TiO<sub>2</sub>-P<sub>2</sub>O<sub>5</sub> glasses and glass-ceramics system</p> <p><b>CO96. ID839:</b> L. EL-ADEL, A. OUASRI, H. ZOUHRI, A. RHANDOUR, Structural, thermal, spectroscopic, and Hirschfield study of [C<sub>6</sub>H<sub>5</sub>NH<sub>3</sub>]<sub>3</sub>BiCl<sub>6</sub>.3H<sub>2</sub>O</p> <p><b>CO97. ID842:</b> Dalila Fedoui, Yasser Bouchebcheb, Messaoud Liacha, Patrick Rosa, Dimeric</p>

	<p>spin-crossover of bis(pyrazolyl)pyridine complexes of Fe(ii): mössbauer and X-ray crystallographic study</p> <p><b>CO98. ID743:</b>M. ELHOUDI, CHRISTIAN A. CELAYA, Y. ABDELLAOUI. A.ALBOURINE, A structural and reactivity DFT study of GG Alginic acid disaccharides with trivalent/bivalent metal cations (In<sup>3+</sup>, Ni<sup>2+</sup>, Sr<sup>2+</sup>)</p>
	<p><b>Fifth session : Molecular spintronics and spin crossover systems (Room 5)</b></p> <p><b>Chairmen:</b> Prof. A. BOULOIUZ and Prof. S. TABTI</p>
11:30– 12:40	<p><b>CO99. ID762:</b>A. Saadi, A. Lekdadri, R. Moubah H.Lassri, Magnetic studies of Co/C multilayers</p> <p><b>CO100. ID769:</b>A. Ed-Daoui, M. Benelmostafa, M. Dahmani and P. Snabre, Dynamisc of elastoporous connected network of the agarose gel or sponge type underuniaxial compression</p> <p><b>CO101. ID771:</b>A.BAZZA, M.HAMAL, A.MOUSSA, M.ZERFAOUI, Natural radioactivity measurements and radiation dose estimation in the coal of Jerada region</p> <p><b>CO102. ID772:</b>Younes Errouas, Youssef Ben-Ali, Ilyass El Kadmiri, Zakaria Tahri, Driss Bria, Propagation of electromagnetic waves in one dimensional asymmetric comb-like photonic structure containing defects</p> <p><b>CO103. ID777:</b>H. JABKHIRO, K. EL HASSANI, A. ANOUAR, Ternary dyes adsorption onto Metal Mixed Oxides: derivative spectrophotometry</p> <p><b>CO104. ID811:</b>N. Zaim, A.ZAIM, M.Kerouad, The phase diagrams of mixed spin (1, 2) multilayer nanographene</p> <p><b>CO105. ID823:</b>A. Lekdadri, H. Lassri, A. Saadi, Modeling of magnetic properties in Co/Nb multilayers at low temperature</p> <p><b>CO106. ID850 :</b> R. BENKADDOUR, I. MERIMI, H. OUDDA, Salinity and pollution by nitrates of the groundwater of the Triffa plain</p> <p><b>CO107. ID846:</b> Karim Tanji, Abdellah Arrahli, Jamal Naja, Abdellah Chaqroun, Abdelhak Kherbeche, Efficientphotodegradation of emerging pollutants in real wastewater effluent using cobalt doped ZnO catalyst: degradation kinetics Regeneration and Reuse</p> <p><b>CO108. ID847 :</b> Kenza El hajjaji, Oumaima Mertah, Rabia Bouslamti, Abdelhak Kherbeche, Sustainable outlook for dyes removal using alginate hydrogel</p>
	<p><b>Sixth session : Molecules and Surfaces (Room 6)</b></p> <p><b>Chairmen:</b> Prof. A. AOUNITI and Prof. A. DJEDOUANI</p>
11:30– 12:40	<p><b>CO109. ID216:</b>K. Zaidi, A.Titi, M. El Kodadi E.B. Yousfi, A. Aouinti, B.Hammouti, R.Touzani Search for new catalysts based on copper/pyrazole complexes for the oxidation of catechol to o-quinone</p> <p><b>CO110. ID217:</b>Yassine Kaddouri, BtissamBouchal, Farid Abrigach, Mohamed Bellaoui, Mohammed El Kodadi and Rachid Touzani, Homology modeling and Ligand-protein docking are efficient tools for the search of new antibacterial and antifungal candidates</p> <p><b>CO111. ID233:</b>Zineb BENCHEQROUN, Mostafa NAWDALI, Hicham ZAITAN, Removal of Colored Organic Matter from Water by Adsorption Process onto the Cupressus Sempervirens</p> <p><b>CO112. ID304:</b>H. Chahmout, M. Ouakki, S. Sibous, M. Galai, Z. Benzakri, S. Boukhris, A. Souizi, M. Cherkaoui, Protection of stainless steel using pyrazole derivatives as corrosion inhibiteur in sulfiric acidic medium: electrochimical, surface and thermodynamique studies</p> <p><b>CO113. ID306:</b>BOUABDELLAOUI Mostafa, DARDOURI Noureddine, BOUAMMALI Boufelja, OULMIDI Abdelkader &amp; CHALLIOUI Allal Theoretical study of the mechanism and regioselectivity of the [4+2] cycloaddition of 2-azadienes with 1.4-naphtho quinines</p> <p><b>CO114. ID309:</b>Barhm MOHAMAD, Design and optimization of vehicle muffler using the Ffowcs Williams and Hawkingsmodel</p> <p><b>CO115. ID322:</b>HAJAR ABBADI, LARBI EL FARH, Ab initio calculations of structural</p>

	<p>and electronic properties of WSe<sub>2</sub> compound</p> <p><b>CO116. ID500:</b> Abderrahim Titi, Takuya Shiga, Hiroki Oshio, Rachid Touzani, Belkheir Hammouti, Messali Mouslim, Ismail Warad, Synthesis of novel Cl<sub>2</sub>Co<sub>4</sub>L<sub>6</sub> cluster using 1-hydroxymethyl-3,5-dimethylpyrazole (LH) ligand: crystal structure, spectral, thermal, Hirschfeld surface analysis and catalytic oxidation evaluation</p> <p><b>CO117. ID503:</b> Benguerine Omar, Nabi Zakia, Bouabdallah Badra, First-principles calculation of structural, elastic, electronic and magnetic properties of Co<sub>2</sub>MnGa<sub>0.5</sub>Al<sub>0.5</sub></p> <p><b>CO118. ID505:</b> Anas Al-Ali, Ismail Warad, Synthesis, single crystal, thermal, solvatochromism, Hirschfeld surface analysis and antibacterial activity of new dicationic Cu(II) complexes</p> <p><b>CO119. ID741:</b> Z. Labdout, T. Mrabt, E. H. El Boudout, A. Mouadil, B. Djafari-Rouhani, Induced reflection in a simple Aharonov-Bohm mesoscopic system</p> <p><b>CO120. ID742:</b> H. LAAROUSSI, A. AOUNITI, O. MOKHTARI, B. HAMMOUTI, Investigation of the extraction process effect on the extraction yield, the chemical composition and antioxidant activity of Argania spinosa L. Oil</p>
<b>Chairmen:</b> Prof. B. EL OUADI and Prof. E. GHARIBI	
<b>12:40– 13:10</b>	<p><b>Keynote (10)</b> Prof. Abdelali OUDRISS, <b>France</b> Influence of hydrogen adsorption/absorption on passivation and dissolution mechanisms of 316LN stainless steel</p>
<b>13:10– 13:40</b>	<p><b>Keynote (11)</b> Prof. D.B. LEZNOFF, <b>Canada</b> Cyanide-based coordination polymers as advanced materials</p>
<b>13:40– 14:30</b>	<b>Lunch</b>
<b>Afternoon</b>	
<b>Chairmen:</b> Prof. M. BOUACHRINE and Prof. G. ŚLIWIŃSKI	
<b>14:30 – 15:00</b>	<p><b>Keynote (12)</b> Prof. El Arbi Bazzaoui, <b>Morocco</b> Metallic substrates, colloidal nanoparticles and fractal structures for surface-enhanced Raman scattering investigation of electronically conducting polymers</p>
<b>15:00 – 16:00</b>	<p><b>School (8)</b> Prof. Kamel BOUKHEDDADEN, <b>France</b> The bistable spin transition molecular Solids: from the physical property to the crystal imaging through the phase transition</p>
<b>16:00 – 16:30</b>	<p><b>Keynote (13)</b> Dr Aurelian ROTARU, <b>Romania</b> Conductivity and Permittivity Switching in Molecular Spin Crossover Solids</p>
<b>16:30 – 17:00</b>	<p><b>Keynote (14)</b> Dr Paulo N. Martinho, <b>Portugal</b> Is Fe (III) the new king of spin crossover's iron throne?</p>
	<b>Posters</b>
	<b>Chairmen:</b> Prof. M. EL KODADI
<b>17:00 – 17:30</b>	<p><b>CP77. ID797:</b> Anas Chraka, I. Raissouni, N. Ben Seddik, M. El Hadri, S. Khayar, K. Draoui, F. Chaouket, D. Bouchta, Inhibition of brass corrosion in 3% NaCl medium by aqueous extract from Thymbra capitata (L.) cav: Electrochemical and Computational studies</p> <p><b>CP78. ID801:</b> S. Labied, T. El ghailassi, A. Bouih, T. Guedira, O. Benali, Experimental and theoretical study of the effect of the addition of fireclay powder on the confinement properties of a cement mortar</p> <p><b>CP79. ID802:</b> G. Ghenimi, H. Barebita, M. Ouakki, T. Guedira, M. Cherkaoui, Experimental study on corrosion inhibition effect of a vitreous phase, of mild steel in 1.0 M hydrochloric acid solution</p> <p><b>CP80. ID804:</b> M. Ounacer, A. Essoumhi, A. Razouk, A. Fnidiki, F. Richomme, J. Juraszek, S.M. Dubiel, M. Sahlaoui, M. Sajieddine, Structural, magnetic and Mössbauer studies of</p>

CoMg-ferrite nanoparticles

- CP81. ID813:** M. Jaouane, A. Sali, A. Azzarfi, N. Es-Sbai, M. O. Jamil, The effect of electric field on the binding energy of a donor impurity in multilayers cylindrical quantum dots
- CP82. ID817:** Aaddouz Mohamed, ELANSARI Lhaj lahcen, Mejdoubi El Miloud, M. Lakrat, N. Akartasse, Synthesis of biocomposite for the development of artificial bones, Collagen-hydroxyapatite composites for hard tissue repair
- CP83. ID820:** EL OUAHCHI Mohamed , TOUZANI Rachid, BAHARI Zahra, Metal-organic frameworks for energy storage: supercapacitor
- CP84. ID821:** M. Zaim, A.ZAIM, M. Kerouad, Monte Carlo study of binary alloy ferromagnetic nanoparticle under time dependent magnetic field
- CP85. ID822:** EL BOUTAYBI Mohamed, TOUZANI Rachid, BAHARI Zahra, Metal Organic Frameworks (MOF) and Batteries
- CP86. ID824:** M. JALAL, R. TOUAZNI, B. HAMMOUTI, İ. ÖZDEMİR, Synthesis of a new Metal-NHC complexes and their catalytics, biologics and corrosion inhibitor applications
- CP87. ID825:** M. ELMOURABIT, F.CHAOUKET, K .DRAOUI, A. Ait Aghzzaf, I. RAISSOUNI and D.BOUCHTA, Development of clay-based microreservoirs of inhibitors for corrosion protection of mild steel
- CP88. ID826:** I. Allaoui, A. Barhoun, K. Draoui, Optimization of Adsorption Parameters for Effective Removal of dyes from aqueous medium using Moroccan clay
- CP89. ID830:** N.SETTI, A.DAFALI, K.CHERRAK, K.Sebbar, E.M.Essassi, THE STUDY OF {4-nonadecyl-2H- benzo[b] [1,4] thiazin-3(4H)-one} ON THE CORROSION OF MILD STEEL IN H<sub>2</sub>SO<sub>4</sub> ACID MEDIUM (0,5 M)
- CP90. ID782:** M. Sarroukh, K. Lahlou ,M. Farah, Calculation of the equivalent temperature of a motorway and study of the influence of this calculation on the service life and maintenance cost
- CP91. ID843:** F. JEFFALI ,A. EL KIHIL, A. OUARIACH, H. GZIRI, A. NOUGAOUI, Fault Diagnosis and Localization of Industrial Drives using thermal imaging technique
- CP92. ID764:** EL AMRANI Ikram, ATLAMSANI Ahmed, AGRIDA Imad, Catalytic oxidation of aldehyde to acid using Vanadyl phosphate
- CP93. ID701:** N. SETIFI, N. DEBBACHE, T. SEHILI, Photodegradation of naproxen using synthesized goethite-montmorillonite nanocomposite
- CP94. ID744:** F. Z. Elamri, A. Kharmouch, F. Falyouni, D. Bria, Effect of the hydrostatic pressure on the electronic states induced by a defect layer in a Multi-Quantum Wells structure
- CP95. ID223:** M. Bouassiria,H. Fakhry, T. Labaissi, F. Benhiba, M. El Faydy, H. Oudda, M. Assouag, R. Tour, A. Guenbour, B. Lakhrissi, A. Zarrouk, Corrosion inhibition effect of 5-((4-methylpiperazin-1-yl) methyl) quinolin-8-ol on the carbon steel in 2.0 M H<sub>3</sub>PO<sub>4</sub>
- CP96. ID224:** A. Benzai, F. Derridj, O. Mouadili,M. El Azzouzi, Y. Kaddouri, K. Cherrak, Rachid Touzani, A. Aouinti, Anti-corrosive properties and quantum chemical studies of benzoxazol derivatives on mild steel in acid
- CP97. ID228:** Imane Idris, Fazia Derridj, Jean-François Soulé, Henri Doucet, Effective modulation of the photoluminescence proprieties of arylated 2,1,3 benzochalcogenadiazoles
- CP98. ID303:** A. Benzai, F.Derridj, R. El Ati, M. El Kodadi, R. Touzani, A. Aouinti, B. Hammouti, T. Ben Hadda, H. Doucet, Studies of catecholase activities of N-donor bidentates ligands derivated from benzoxazole with copper (II) salts
- CP99. ID404:** R. El-Fdil, O. Amhoud, E. Salmani, H. Ez-Zahraouy, A. Zaim, M. Kerouad, Electronic, Magnetic Properties and Magnetocaloric Effects of PrSi: First principle study and Monte-Carlo simulation
- CP100. ID126:** Chahrazad El Abiad, Smaail Radi, Maria A. F. Faustino, M. Graça P. M. S. Neves and Nuno M. M. Moura, Supramolecular Hybrid Material Based on Engineering Porphyrin Hosts for an Efficient Elimination of Lead (II) from Aquatic Medium
- CP101. ID507:** Othmane AMHOUD, Ahmed ZAIM, and Mohamed KEROUAD, Magnetic and Magnetocaloric effect of the double perovskite Ba<sub>2</sub>CrMoO<sub>6</sub> : Ab initio Calculations and Monte Carlo simulations
- CP102. ID848 :** Abdellah Arrahli, Karim Tanji, Abdelhak Kherbeche, Daniel Bianchi, Heats of Adsorption of Linear CO Species Adsorbed on Pt-Sn Nanoparticles Supported on Al<sub>2</sub>O<sub>3</sub>



<b>Chairmen:</b> Dr. M. Duttine and Prof. D.B. LEZNOFF	
<b>17:30 – 18:00</b>	<b>Keynote (15)</b> Dr. T. SZUMIATA, <b>Poland</b> Studies of polluted environmental samples by Mössbauer spectroscopy and magnetic methods
<b>18:00 – 18:30</b>	<b>Keynote (16)</b> Prof. Tarik CHAFIK, <b>Morocco</b> Biogas reforming with CO <sub>2</sub> using an innovative Catalyst based on local extruded clay monolith
<b>Friday, December 13</b>	
<b>Morning</b>	
<b>Chairmen:</b> Prof. JIWEI MA and Prof. A. BOULAHNA	
<b>09:00 – 10:00</b>	<b>School (9)</b> Prof. Mario Ruben, <b>Germany</b> Molecular Devices for Quantum Algorithms
<b>10:00 – 10:30</b>	<b>Keynote (17)</b> Dr H.N. MIRAS, <b>Glasgow</b> Polyoxometalate and Chalcocite Molecular Systems: From Self-Assembly to Functionality
<b>10:30 - 11:00</b>	<b>Keynote (18)</b> Prof. Gonzalo Abellán, <b>Germany</b> Giant Enhancement in the Supercapacitance of NiFe–Graphene Nanocomposites Induced by a Magnetic Field
<b>Posters</b>	
<b>Chairmen:</b> Prof. Z. BAHARI	
<b>11:00 – 11:30</b>	<p><b>CP103. ID831:</b> BERRISSOUL, A. DAFALI, A. ZARROUK, A. GUENBOUR, Evaluation of anticorrosion effect of green corrosion inhibitor on mild steel in 1M HCl</p> <p><b>CP104. ID725:</b> Raja MOUSSAOUI, Souad EL MOUDNI EL ALAMI, Hassan AOURAGHE, Characterization of the Zellidja lead smelter slag for their use as substituents in building materials</p> <p><b>CP105. ID755:</b> S.MOUZOURI, A.KERKOUR-EL MIAD, M. LAHLOU, EXPERIMENTAL STUDY OF DAMAGE MECHANISMS FOR A CPVC TUBE MATERIAL</p> <p><b>CP106. ID778:</b> Farida Djerada – Larfi , Toufik Baouz, Rezgui, Kaddour Samia, Effect of pro-oxidants based on sodium and calcium on polypropylene thermo-oxidation</p> <p><b>CP107. ID414:</b> N. GUECHTOULI, S. ZAATER, N. KICHOU, S. BOUAZIZ and H. MEGHEZZI, Spectroscopic and theoretical study of materials based on transition metals</p> <p><b>CP108. ID603:</b> Asmaa AKHROUF, Driss BENBAHI, Saida KRIMI, Elaboration, structural characterization and in vitro bioactive characteristics of borophosphate glasses</p> <p><b>CP109. ID138:</b> Berredjem Layachi, Molez Laurent, Arabi Nourredine, Study of the mechanical properties and durability of concretes based on recycled sand</p> <p><b>CP110. ID803:</b> B. Boumhidi, A. Peña, L. Bounab, K. Draoui, Hybrid clay-based materials for the treatment of pesticide-contaminated water</p> <p><b>CP111. ID122:</b> FARES Redouane, Naime Houcine, BOUABI Abed, LOUNIS Moura, Physico-chemical and bacteriological quality's Study of the groundwater of the low Cheliff-Rélizane area (Algeria)</p> <p><b>CP112. ID205:</b> Menouar Hanafi, The production of the gasoline with high quality with high octane number by the use of the bifunctional catalyst Pt / Re in the catalytic reforming process.</p> <p><b>CP113. ID833:</b> S. Ouahabi, N. Saidi, M. Ramdani, H. Loukili, A. Aouniti et B. Hammouti, Antioxidant activity of the methanolic extract of Pistacia lentiscus leaves of the eastern region of morocco</p> <p><b>CP114. ID220:</b> F.Z. Dahou, A. Khelil, Study of the interface SnO<sub>2</sub> anode/organic material in</p>

	<p>solar cells using a thin buffer layer</p> <p><b>CP115. ID814:</b>F. FERRAG-SIAGH, S. MOULAY, L. ATMIMOUN, B. BAAZIZ, S.AKRETCHE- KElfAT, G. BERKANI-SLIMANI and H. AÏT-AMAR, Elimination of drug particles by hybrid process: Modeling by the Hadamard matrix</p> <p><b>CP116. ID524:</b>Albert Veed, Geh WilsonEjuh, Noë IDjongyang, Effect of HfO<sub>2</sub> on the energy harvesting properties of PVDF</p> <p><b>CP117. ID118:</b>A. ELKECHAI, H. AYACHE, F. DERRIDJ, D. HAMMOUTENE, A. BOUCEKKINE, Structural and Spectroscopic Properties of Heterocyclic Bidentate Ligands and Complexes: Experimental and DFT Studies</p> <p><b>CP118. ID127:</b>F. AOUINTI, H. ZIDANE, A. ASEHRAOU, Y. ROKNI, A. El BACHIRI, Phytochemical study and antibacterial activity of Pistacia lentiscus L. extracts</p>
<b>11:30– 12:40</b>	<p><b>First session : Material and biomaterial composites</b></p> <p style="text-align: center;"><b>(Room 1)</b></p>
	<p><b>Chairmen:</b> Prof. A. OULMIDI and Dr. H. N. MIRAS</p>
	<p><b>CO121. ID517:</b>M. EL HAZZAT, A. SIFOU, S. ARSALANE and A. EL HAMIDI, Novel approach for complex dehydration kinetics of gypsum: Peak deconvolution and Isoconversional method</p> <p><b>CO122. ID527:</b>Y. Nioua, B. M. G. Melo, P. R. Presas, M. P. F. Graça, M. E. Achour, L. C. Costa, Impedance spectroscopy study of rGO/DGEBA composites materials</p> <p><b>CO123. ID602:</b>Zaina Izghri, GhizlaneEnaime, Mehdi Louarrat, Layla El Gaini, Abdelaziz Baçaoui, AbdelraniYaacoubi, Hydroxide sludge/hydrochar composite catalysts for photo-Fenton degradation of dyes</p> <p><b>CO124. ID606:</b>Imad ALOUIZ, Houssam OUAZZANE, Mohamed Yassine AMAROUCH, Driss MAZOUZI, Olive Mill Solid Waste Characterization and Recycling opportunities: A New Production Process of Activated Charcoal</p> <p><b>CO125. ID607:</b>LAKHLOUFI Soraya, LABJAR Houda, EL YAMANI Amal, SERGHINI- IDRISSI Malika, EL HAMDOUNI Youssra, BOUHOUCHE Ichraq, LOTFI El Mostapha, EL MAHI Mohammed, EL HAJJAJI Souad, DAHROUCH Abdelouahed,LABJAR Najoua, Electrochemical behavior and surface characterization of dental materials in artificial salivary</p> <p><b>CO126. ID608:</b>Kerrou Meryem, Bouslamti Najia, RaadaAbdelazize, Evaluation of the capacity of the natural material of basic dye removal</p> <p><b>CO127. ID706:</b>EL ABDOUNI Ibtissam, KRIMI Saida, Characterization of novel Biomaterials</p> <p><b>CO128. ID707:</b>Hajar Ait Oulahyane. Abdeslam Chagraoui. Leila Loubbidi· Lamia Bourja. Omar Ait Sidi Ahmed, Structural studies of new phases with sillenite type</p> <p><b>CO129. ID714:</b>S. LANAYA, Z. RIBHI, A. BARAKAT, E. M. RAKIB, A. HANNIOUI, Chemical modification of NFCs by hydrosilylation reaction</p> <p><b>CO130. ID717:</b>Rachid Azzallou, Mohamed AitTaleb, Rachid Mamouni, Saïd Lazar, Sylvie Villain, Efficient and green method for the synthesis of quinazolin-4(3H)-ones using animal bone meal as a new biocatalyst under microwave irradiation</p> <p><b>CO131. ID760:</b>Kouri Hossam, Serghini- Idrissi Malika, NajouaLabjar, Effect of omeprazole on corrosion of C38 steel in different HCl media</p> <p><b>CO132. ID765:</b>L. El Mchichi, A. Benlahssan, T. Lakhlifi, M. Bouachrine, 3D-QSAR Study of the chalcone derivatives as anti-cancer agents</p>
	<p><b>Second session : Hybrid materials</b></p> <p style="text-align: center;"><b>(Room 2)</b></p> <p><b>Chairmen:</b> Prof. M. EL KODADI and Prof. M. RUBEN</p> <p><b>CO133. ID512:</b>Mohammed NOR, Allal CHALLIOUI, Boufelja BOUAMMALI, Abdelkader OULMIDI, A MD STUDY OF THE SOLUBILITY OF CELLULOSE IN</p>

11:30– 12:40	<p>CUAM AQUEOUS SOLUTION</p> <p><b>CO134. ID514:</b>El OUADRHIRI Façal, ELOUTASSI Nouredine, CHAOUCH Mahdi, LAHKIMI Amal, Production of porous carbonaceous materials from Phoenix Dactilifera L. waste: Optimization of synthesis conditions and application to dye adsorption</p> <p><b>CO135. ID515:</b> Anouar EL MAGRI, Khalil EL MABROUK, Sébastien VAUDREUIL, Optimization of printing parameters for the enhancement of mechanical performances of additively manufactured Poly (ether ether ketone)</p> <p><b>CO136. ID519:</b> S. Tabti, A. Djedouani, S. Rahmouni, Cyclic voltammetry of Copper II metallic complex derivative of 2-pyrone</p> <p><b>CO137. ID530:</b> S. BEN-AAZZA, A. HADFI, M. BELATTAR, S. MOHAREB, I. KARMAL, N. HAFID AND A. DRIOUICHE, Inhibition of precipitation of calcium carbonate by the phosphate food product "Budal@Na422"</p> <p><b>CO138. ID532:</b> ACHIK Maryam, OULMEKKI Abdellah, BENMOUSSA Hayat, kizinievic Olga, Antonia Infantes-Molina, Dolores Eliche-Quesada, From industrial waste to fired clay bricks</p> <p><b>CO139. ID620:</b>M. Bouabdallaoui, A. El Guerraf, Z. Aouzal, S. Ben Jadi, M. Bazzaoui, G. Lévi, J. Aubard and E. A. Bazzaoui, Investigation of structural and chemical changes accompanying the reduced-oxidized and oxidized-overoxidized transitions of electrochemically synthesized polythiophene</p> <p><b>CO140. ID621:</b>Z. Aouzal, M. Bouabdallaoui, A.ElGuerraf, S.BenJadi, A. El Jaouhari, M.Bazzaoui, R. Wang, E.A.Bazzaoui, Surface-Enhanced Raman Scattering for conducting polymers in situ investigation: Application to poly(5-amino-1,4-naphtoquinone)</p> <p><b>CO141. ID704:</b>E. AMATERZ, A. BOUDDOUCH, A. TAOUFYQ, A. TARA, B. BAKIZ, A. BENLHACHEMI, L. BAZZI, O. JBARA, Photo-electrocatalytic removal of rhodamine B using BaHPO<sub>4</sub> electrodes</p> <p><b>CO142. ID728:</b>Omar OUNAS, Pr Brahim LEKHLIF, Pr Jamal JAMAL-EDDINE, Hybrid Films (Semiconductor-Polymer): Design, Photocatalytic Activity and Optimization</p> <p><b>CO143. ID835:</b>H.SUIFFI, A.EL MALIKI, O.CHERKAOU, M.DALAL, INFLUENCE OF SYNTHETIC FIBERS (POLYPROPYLENE) ON THE DUCTILITY OF A SAND CONCRETE</p> <p><b>CO144. ID775:</b>Abdelmounaim Aboussaad, ZainaIzghri, Layla El Gaini, Abdelaziz Baçaoui, AbdelraniYaacoubi, Layered double hydroxides catalysts for solar photocatalytic degradation of organic pollutants</p> <p><b>CO145. ID798:</b>Ayoub ABOUHOURAIRA, Ouafa ELHAMMOUMI, Abdellah OUALI, Effect of accelerated aging of concrete by heat treatment and temperature variation on the parameters of durability</p> <p><b>CO146. ID799:</b>I. LEBKIRI, B. ABBOU, L. KADIRI, A. OUASS, Y.ESSAAOUDAOU, A. LEBKIRI, E. H. RIFI, Structure-property relationship of a model network containing solvent</p> <p><b>CO147. ID807:</b>El Hamli Abdelkader, BazzaAbdelkarim , Moussa Abdelilah, Hamel Mohamed, Zerfaoui Mustapha, Ouchrif Mohamed, Geant4 simulation of NaI(Tl) material response for a 76B76 scintillation detector</p>
11:30– 12:40	<p><b>First session : Material and biomaterial composites</b></p> <p style="text-align: center;"><b>(Room3 )</b></p> <p><b>Chairmen:</b> Prof. M. RAMDANI and Prof. T. CHAFIK</p> <p><b>CO148. ID726:</b>M.SLAOUI, Y. EL ISSMAELI, T. LAMCHARFI, F. ABDI, N. GOUITAA, M. HADDAD, effect of zinc on the physicochemical properties of cacu3ti4 o12 using solid state</p> <p><b>CO149. ID749:</b>M. KACHABI, M. NAWDALI, H. ZAITAN, Valorization of Moroccan natural and activated clay as adsorbents for the removal of dyestuff from wastewater</p> <p><b>CO150. ID774:</b>M. Amine Abid, A. ElGhoulbzouri, L mokhtar Ikharrazne Reinforcement of a</p>

	<p>metal structure subjected to the earthquakes with viscous fluid dampers</p> <p><b>CO151. ID780:</b>M. DERQAOU, A. ABIDI, A. BACAOUI, A. YAACOUBI and K. EL AMARI, Sodium alginate from Moroccan brown seaweeds as depressant for calcite in the fluorapatite flotation</p> <p><b>CO152. ID781:</b>M. MOUTATAOUIA, A. EL-JAOUHARI, S. KRIMI and M. LAMIRE, Structural investigations, chemical durability and thermal properties of new magnesium-sodium-calcium phosphate glasses</p> <p><b>CO153. ID786:</b>I.Barrak, I. Ayouch, M. El Achaby, A. Barhoun, K. Draoui, Moroccan natural clay as an effective adsorbent in copper removal from aqueous solution</p> <p><b>CO154. ID788:</b>Abdeltif KAOUTAR, Abdelaziz EL JAZOULI, Laila LAMROUS, Jean-Jacques VIDEAU, Arantxa ESPINA, Ismail KHATTECH, Michel COUZI, Saida KRIMI, Synthesis and Physicochemical Characterization of <math>(50-x)\text{Na}_2\text{O}-x\text{MgO}-50\text{P}_2\text{O}_5</math> Glasses</p> <p><b>CO155. ID794:</b>Younesse Haddaji, Hasna Hamdane, Hicham Majdoubi, Said Mansouri, Latifa El farissi, Mehdi El bouchti, Mina Oumam, Hassan Hannache, Untreated Phosphate Washing Sludge Based Geopolymer Composite Reinforced with Polypropylene Fiber: Preparation, Characterization and Mechanical Properties</p> <p><b>CO156. ID800:</b>A. LAHNAFI, A. EL-KORDY, N. TIJANI &amp; K. YAMNI, Elaboration and characterization of a new clay / zeolite Y composite membrane for the treatment of polluted liquid effluents in heavy metals</p> <p><b>CO157. ID801:</b>S. Labied, T. El ghailassi, A. Bouih, T. Guedira, O. Benali, Experimental and theoretical study of the effect of the addition of fireclay powder on the confinement properties of a cement mortar</p> <p><b>CO158. ID827:</b> EL Hassania. LOUKILI, M. BELLAOUI, B. BOUCHAL, M. BOUHRIM, M. BNOUHAM, M. RAMDANI, Evaluation of the antibacterial activity of ethanolic extracts of <i>Opuntia dillenii</i> and their phytochemical study</p> <p><b>CO159. ID829:</b>Zineb Kadri , Souad Zyade, Characterization and migration from an Epoxy coating to foodstuffs</p>
<b>11:30– 12:40</b>	<p><b>Second session :</b> Hybrid materials</p> <p style="text-align: center;"><b>(Room 4)</b></p> <p><b>Chairmen:</b> Prof. M. BOUKLAH and Dr. T. SZUMIATA</p> <p><b>CO160. ID731:</b>I.Ayouch, I.Barrak , M. El Achaby , A.Barhoun, K.Draoui, Biopolymer hydrogel for cadmium elimination from aqueous medium</p> <p><b>CO161. ID736:</b>M. Zouhairi, O. El Ghadraoui, El. El Ghadraoui, T. L amcharfi, HYDROTHERMALLY PREPARATION AND PHYSICO-CHEMICAL CHARACTERIZATION OF LEAD-BASED PEROVSKITE <math>\text{PLT}_x</math></p> <p><b>CO162. ID739:</b>LAKEHAL SENHAJI Mohammed, HAFNAOUI Anass, KHOULOUDE Mehdi, EL ASRI Mohammed, BOULAHNA Ahmed, Variation effects of de-dusting products including polymers on the dust emission of phosphate granular fertilizer</p> <p><b>CO163. ID747:</b>S. TARHOUCI, H. MOUADILI, K. TOUA, N. SEFIANI L. LEBRUN, M. HLAIBI, Specific materials for membrane oriented processes relating to the extraction and the purification of tropic acid compound</p> <p><b>CO164. ID748:</b>Imane Mourtah, Y. Chaouqi, I. Mechnou, T. Eljaddi, N. Sefiani, L. Lebrun, M. Hlaibi, Polymer Inclusion Membrane Technique for the Extraction and Recovery oriented Processes of Cr (III) ions: Parameters and mechanisms</p> <p><b>CO165. ID750:</b>Sara Chaouf, Hassan Amhamdi, Soufian El Barkany, Issam Jilal, Hussein El Ouarghi, Abderahmane El Idrissi, Synthesis, characterization and application of new bio-adsorbent based on HEC for elimination of methylene blue</p> <p><b>CO166. ID768:</b>HERMOUCHE Lina, AKIL Youness, ABBI Khaoula, El HAMDOUNI Youssra, EL MAHI Mohammed , LOTFI El mostapha , LABJAR Najoua , EL</p>



	<p>HAJJAJI Souad, Simultaneous detection of cadmium, lead, and copper in wastewater by a vegetal waste modified carbon paste electrode</p> <p><b>CO167. ID773:</b> I. Bahaj, M.Essahli, M.Kaddami, Thermodynamic Studies of intermetallic compounds by using ellingham diagram</p> <p><b>CO168. ID785:</b>Jallal ISAAD, New hybrid material for the selective and sensitive colorimetric and –fluorescent detection of the heavy metals in biological systems</p> <p><b>CO169. ID787:</b> Bouchra ES-SOUNNI, Ibtissam ELAARAJ, Asmae NAKKABI, Mohamed BAKHOUCHE, Mohamed EL YAZIDI, Nouredine EL MOUALIJ, Mohammed FAHIM, Synthesis and spectroscopic characterization of tacrine-cyclam hybrids</p> <p><b>CO170. ID618:</b>Z. EL ASLAOUI, Y. KARZAZI, Recent advances in thiophen-based dyes for dye-sensitized solar cells</p> <p><b>CO171. ID837:</b>Houyem Damnati, Larbi EL FARH, Yousfi Fatima, Ramdani Mohammed,Hicham Elmsellem, Experimental studies of OPUNTIA DILLENII plant extract for sustainable corrosion inhibition of mild steel in neutral solution (water of Moulouya River)</p> <p><b>CO172. ID105:</b>Mounir Cherfi, Tarik Harit, Fouad Malek, Synthesis of new tetrapyrazolic macrocycle and examination of their complexation properties</p>
11:30– 12:40	<p><b>First session</b> : Material and biomaterial composites (Room 5)</p>
	<p><b>Chairmen:</b> Prof. R. TOUZANI and Dr. P.N. MARTINHO</p>
	<p><b>CO173. ID806:</b>A. El khomsi, N. Idrissi kandri , A. Zerouale , S. Rossignol, Synthesis of geopolymer binders using clays and sands from Fez region in Morocco and study of mechanical strength</p> <p><b>CO174. ID812:</b>EL FELLAH Imad, AMMARI Mohammed, BEN ALLAL Laïla Contribution to the study of the mercury immobilization by an eco-construction material</p> <p><b>CO175. ID815:</b>Abdelilah Monadiri, Souad Mrabet, Abdellah Ouali, Effect of metakaolin and silica fume on concrete shrinkage</p> <p><b>CO176. ID828:</b>H. AKICHOUH, S. SALHI, M. KHOUTOUL, M. EL MIZ, A. EL BACHIRI, A. TAHANI, Ionic strength effect on green malachite adsorption onto Moroccan montmorillonite clay: experimental study and theoretical investigation</p> <p><b>CO177. ID832:</b>Amine BENDAHHOU, Mohamed ABOU-SALAMA, Pascal MARCHET, Karim CHOURTI, Mohamed LOUTOU et *Soufiane EL BARKANY, Synthesis, characterization and study of the dielectric properties of BZT ceramics: <math>(Ba_{1-y}Ln_{2y/3})Zr_xTi_{1-x}O_3</math></p> <p><b>CO178. ID838:</b>Soufiane El Yassari, Abdelouafi El Ghoulbzouri, New biocompatible cement synthesized using natural phosphate to medical use</p> <p><b>CO179. ID840:</b>A. Laaraibi, S.Mansouri , Charhouf , A. Abourriche, A. Bennamara , M. Berrada, Elaboration of new nanocomposites based on polymers and clays for food applications</p> <p><b>CO180. ID100:</b>Safae Oumnih, Nadia Bekkouch ,ElkhadirGharibi , Achraf Harrou , Nathalie Fagel, Kamal El, Hammouti , Meriam El Ouahabi, The chemical properties of stabilized bentonite with lime-phosphogypsum</p> <p><b>CO181. ID111:</b>Chakib Mokhtari, Fouad Malek, Sylvain Caillol, Claire Negrell, New bio-based polyhydroxyurethane materials</p> <p><b>CO182. ID845:</b>A.ELKIHHEL, B. ABOU ELANOUAR, H.GZIRI, F.JEFFALI, Heat generation in materials by mechanical vibrations</p>
11:30– 12:40	<p><b>Sixth session</b> : Molecules and Surfaces (Room 6)</p>
	<p><b>Chairmen:</b> Prof. A. CHETOUANI and Dr. A. ROTARU</p> <p><b>CO183. ID511:</b>N. BEN SEDDIK, I. RAISSOUNI, K. DRAOUI, A. AÏT AGHZZAFA.</p>

	<p>CHRAKA, H. DOUHRI, F.CHAOUKET, D. BOUCHTA, Lanthanum exchanged Stevensite as an anticorrosive pigment in an organic coating on brass in 3% NaCl solution</p> <p><b>CO184.</b>      <b>ID609:</b>Fatima BOUHLAL, Aimad MAZKOUR, Mohammed EL MAHI, El mustaphaLOTFI, Souad EL HAJJAJI, Najoua LABJAR, Investigation of the immersion time effect on C38 steel corrosion inhibition by an environment-friendly inhibitor in 1M HCl</p> <p><b>CO185.</b>      <b>ID612:</b>Riham Sghyar , Abdeslem Ben-Tama, El Mestafa El Hadrami, Salah Eddine Stiriba, Miguel Julve, Synthesis and characterization of bis [n-4-ferrocenylphenyloxamato] palladate (II) complexes, as new catalysts for heck, reactions in organic and aqueous solvents</p> <p><b>CO186.</b>      <b>ID613:</b>Zainab Jabri, Karim Jarmouni Khalid Misbahi, Safia Sabir and Youssef Kandri Rodi, Synthesis, development and characterization of new compounds derived from imidazo(4,5b) pyridines with high properties using phase transfer catalysis (PTC) and 1,3 dipolar cycloaddition method</p> <p><b>CO187.</b>      <b>ID614:</b>Tabibi Mohammed, AbdesselamTahani, El Bachiri Ali, Supercritical CO2 extraction of bioactive compound from Moroccan Rosemary: Extraction yield, and Chemical composition</p> <p><b>CO188.</b>      <b>ID700:</b>N BENAROUS, A CHEROUANA, Study of structure-bioactivity relationship of new Schiff bases derived from anthranilonitrile and sulfanilamide: Synthesis, crystal structure characterization, and biological assays</p> <p><b>CO189.</b>      <b>ID712:</b>A. NASSER, A. CASTEL, I. MERIMI, Influence of steel-concrete interface and pre- existing oxides layer on active reinforcing steel corrosion in carbonated concrete</p> <p><b>CO190.</b>      <b>ID716:</b>Fatima Zahra HAFIANE ; Nordine NOUAYTI ; Mohamed EL JARMOUNI ; Latifa TAHRI;Abdelkhalek ELAMRANI IDRISSE; Mohammed FEKHAOUI, Assessment of spatial and seasonal nitrate variation of groundwater in the irrigated perimeter - Tadla plain (morocco)</p> <p><b>CO191.</b>      <b>ID718:</b>H. Fakhry, M. El Faydy, H. Zarrok, A. Aouniti, B.Lakhrissi,B. Hammouti, M. Allali, A. Zarrouk, H. Oudda, An experimental and theoretical study of inhibition corrosion of steel carbone in hcl using a new quinolin derivative molecules</p> <p><b>CO192.</b>      <b>ID723:</b>Zaina IZGHRI, Layla ELGAINI, Abdelaziz BACAUI, Abdelrani YAACOUBI, Preparation of a Novel Catalyst from two phase olive mill wastes using hydrothermal carbonization for Removal of Methylene Blue by heterogeneous Fenton-Like oxidation</p> <p><b>CO193.</b>      <b>ID751:</b>A.MARSOUL; M. IJJAALI; F. ELHAJJAJI; M. TALEB ; N. ARROUSSE; A. BOUKIR, Antioxidant activity determination of Coquelicot (Papaver rhoeas) maceration extracts and evaluation of their inhibitory effects</p> <p><b>CO194.</b>      <b>ID752:</b>C. MOUNIR, H. AHLAFI, M. AAZZA, H. MOUSSOUT, Catalytic reduction of para-nitrophenol to para-aminophenol on supported catalysts</p> <p><b>CO195.</b>      <b>ID756:</b> I. Antraoui, A. Khettabi, Study of the defect modes of a finite one-dimensional periodic structure of three different waveguides</p>
<b>Chairmen:</b> Prof. G. ABELLÁN and Prof. M. ELASRI	
<b>12:40– 13:10</b>	<p><b>Keynote (19)</b> Dr Michael L. Singleton, <b>Belgium</b> Controlling Structure and Self-Assembly Pathways in Bioinspired Self-Organized Molecules</p>
<b>13:10– 13:40</b>	<p><b>Keynote (20)</b> Dr. Mathieu Duttine, <b>France</b> Le fer au Cœur des Phosphates se dévoile... Apports de la spectrométrie Mössbauer</p>
<b>13:40– 14:30</b>	<b>Lunch</b>
<b>Awards and Closing</b>	