

MINISTERE DE LA DEFENSE NATIONALE
وزارة الدفاع الوطني



8th Chemistry days

الأيام الثامنة للكيمياء

8^{èmes} Journées de Chimie

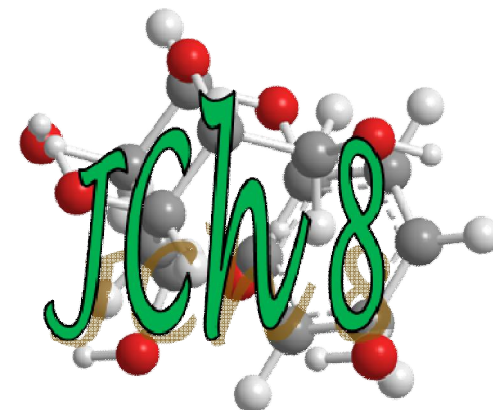
المدرسة العسكرية المتعددة التخصصات

الشهيد عبد الرحمن طالب

Ecole Militaire Polytechnique

Bordj El-Bahri, Algiers, Algeria

March 26-27, 2019



SCIENTIFIC PROGRAM



The Chahid Abderrahmane TALEB Military Polytechnic School (EMP) is organizing the 8th chemistry days (JCh8) on March 26 – 27, 2019. This scientific meeting, which is held every other year, provides a good environment for exchanging knowledge among researchers, students and industrials regarding both scientific and technical progress in diverse chemistry areas as well as giving opportunities for new cooperation.

Topics

Communications are in one of the following research areas:

A. Polymers and advanced materials.
B. Chemical processing, environment and renewable energies.
C. Interfacial phenomena and reactivity.
D. Energetic materials and pyrotechnic systems.

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Co-chair: Fouad **BENALIOUCHE**

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Dr. S.L. HAFSAOUI (EMP, Bordj El Bahri)
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Pr. O. HAMDAOUI (UBM, Annaba)
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Dr. Z. SAFIDINE (EMP, Bordj El Bahri)
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Dr. D. TRACHE (EMP, Bordj El Bahri)
Pr. L. ZEROUAL (UFA, Sétif)

Scientific Program

Tuesday, 26 March 2019	
08:00 – 18:00	Registration (Reception desk)
09:00 – 09:30	Opening ceremony (Amphi B)
Amphi B 09:30 – 10:15	Plenary lecture 1: TKX-50: A new High Explosive Developed at Ludwig-Maximilians Universität (LMU). Prof. Dr. Thomas M. Klapötke, Energetic Materials Research, Department of Chemistry, Faculty of Chemistry and Pharmacy, Ludwig-Maximilians Universität, Munich, Germany. Chairs : Prof. K. Khimeche and Dr. S. Moussous
10:15 – 10:45	Coffee break (Cedoc Hall)
Amphi B 10:45 – 11:30	Plenary lecture 2: Les méthodes de la Chimie Théorique Comme Alternative et/ou Complément à l'expérience. Prof. Meziane Brahimi, Faculté de Chimie. Université des sciences et de la technologie Houari-Boumédiène (USTHB), Algiers, Algeria. Chairs : Prof. R. Mahmoud and Prof. S. Kouidri-Mostafai
11:30 – 12:30	Poster Session 1(Cedoc Hall)
12:30 – 14:00	Lunch (VIP lounge)
14:00 – 15:40	Oral parallel sessions 1(Amphi A and B)
15:40 – 16:30	Poster Session 2 Coffee break (Cedoc Hall)
16:30 – 18:30	Oral parallel sessions 2(Amphi A and B)
Wednesday, 27 March 2019	
Amphi B 09:00 – 09:45	Plenary lecture 3: Quelles énergies pour demain? Prof. Jean-Félix Durastanti, Université Paris-Est Créteil (UPEC), France. Chairs: Prof. D.E. Akretche and Dr. Z. Safidine
09:45 – 10:30	Poster Session 3Coffee break (Cedoc Hall)
Amphi B 10:30 – 11:15	Plenary lecture 4: Green chemistry in organic synthesis. Development of new sustainable chemical processes. Prof. Malika Berredjem, Chemistry Department, Badji-Mokhtar University, Annaba, Algeria. Chairs : Prof. N. Belhaneche and Dr. F. Benaliouche
11:15– 12:30	Oral parallel sessions 3(Amphi A and B)
12:30 – 14:00	Lunch (VIP lounge)
14:00 – 15:00	Oral parallel sessions 4 (Amphi A and B)
15:00 – 16:00	Closing ceremony (Amphi B)

Oral parallel sessions 1

Tuesday, march 26, 2019		A. Polymers and advanced materials.		Time : 14:00-15:40
Code Time	Chairs: Prof. D. BENACHOUR and Dr. A. MEKKI Amphi A			
OA01 14:00-14:20	Thermal study of photo-polymerization reaction in polyacrylate/liquid crystal blends by photo-DSC Z. Hadjou Belaid, D. Beroguiaa, L. Benhebib, F.Z.Abdoune, L. Méchernène and U. Maschke Laboratoire de Recherche sur les Macromolécules, Département de Physique, Université Aboubakr Belkaïd de Tlemcen, Tlemcen, Algeria.			
OA02 14:20-14:40	Synthesis and characterization of hydroxyapatite by wet method in rich calcium solution O. Zamoume and R. Mammeri Faculty of Sciences, Department of Chemistry, University M'hammed Bouguara Boumerdes, Algeria.			
OA03 14:40-15:00	Investigation on ZnO release from pbat/zno nanocomposite films and their antimicrobial performance M. Seray and A. S. Hadj-Hamou Laboratoire des Matériaux Polymères, Département de chimie macromoléculaire, Faculté de Chimie, USTHB, Alger, Algérie 16111.			
OA04 15:00-15:20	Studying the enzymatic crosslinking of vegetable biopolymer by NMR spectroscopy A. Djoullah Centre de Recherche-Développement de l'Intendance. BP 61 - El-Harrach, Algiers, Algeria.			
OA05 15:20-15:40	A Green Synthesis and Polymerization of N-alkyl Methacrylamide Monomers with new chemical approach S. Derkaoui, S. Haoue and M. Belbachir Department of Chemistry, Faculty of Science, Laboratory of Polymer Chemistry, University of Oran1 Ahmed Benbella, Oran, Algeria.			
Tuesday, march 26, 2019		B. Chemical processing, environment and renewable energies.		Time : 14:00-16:00
Code Time	Chairs: Prof. S. BOUACIDA and Dr. N. NAAR Amphi B			
OB01 14:00-14:20	The Application Of Plackett And Burman's Design To The Study Of Factors Affecting The Photo-Fenton Catalytic Degradation Of The OMW H. Iboukhoulé and H. Kadi Laboratoire de Chimie Appliquée et Génie Chimique, Université Mouloud Mammeri, Tizi-Ouzou, Algérie.			
OB02 14:20-14:40	Study of the chemical stability of a Synroc B containing pseudo-brookite, by the MCC1, MCC2 and microwaves tests F. Aouchiche, N. Kamel, S. Kamariz, D. Moudir, Y. Mouheb and A. Arabi Algiers Nuclear Research Center, 02, Bd Frantz Fanon, BP 399 , Algiers, Algeria.			
OB03 14:40-15:00	Bioremediation of drill cuttings- a pilot scale study K. Ighilahriz, M. Khodja, S. Haddadi, A. Benchouk and H. Boutamine Central Direction Research and Development, SONATRACH Avenue du 1er Novembre - 35000 Boumerdès (Algeria).			
OB04 15:00-15:20	Analysis of mixing efficiency in a T shaped micromixer H. Bendriss, D. Chlef, B. Bensebia, D. Tabti and S. Kouadri Moustefai Laboratory of Water, Energy and Green Chemistry. Faculty of Technology. Hassiba Benbouali University of Chlef. Chlef, Algeria.			

OB05 15:20-15:40	Physicochemical, electrochemical and theoretical study of some organic compounds as corrosion inhibitors of 316L stainless steel in 1M HCl Y. Boughoues, M. Benamira and L. Messaadia Laboratory of Materials Interaction and Environment (LIME), University of Jijel, Algeria.
OB06 15:40-16:00	Spectroscopic study of a Cs-Rb co-doped perovskite, dedicated to the radioactive alkali elements confinement K. Hasnat, N. Kamel, Y. Mouheb, S. Kamariz and A. Arabi. Chahid Abderrahmane Taleb Polytechnic Military School, Department of Chemical Process Engineering, Bordj El-Bahri, Algiers.

Break 15:40-16:30	Break/Poster Session 2
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Oral parallel sessions 2

Tuesday, march 26, 2019		<i>C. Interfacial phenomena and reactivity.</i>	Time : 16:30-18:30
Code Time	Chairs : Prof.Y. BOUCHEFFA and Dr. A. ABDI Amphi A		
OC01 16:30-16:50	Bi/α-Bi₂O₃/TiO₂ nanotubes arrays heterojunction for highly efficient photocatalytic applications L. Rekeb and L. Hamadou Laboratoire de Physique et Chimie des Matériaux LPCM, Université Mouloud Mammeri de Tizi-Ouzou, UMMTO, Algeria.		
OC02 16:50-17:10	Characterization, Thermodynamic and Kinetic Studies of Artemisia essential oil as an Eco-Friendly Inhibitor of pure aluminum corrosion in hydrochloric medium N. Hechiche, D. Boughrara, L. Hamadou, A. Kadri and N. Benbrahim Laboratoire de Physique et Chimie des Matériaux (LPCM), Université Mouloud MAMMERI de Tizi-Ouzou, BP 17 RP, 15000, Algérie.		
OC03 17:10-17:30	DFT studies of Procaine-hydrochloride β-cyclodextrin complexation M. Azayez, T. Fergoug, Y. Bouhadda, N. Meddah araibi, H. Boudjournes and F. Chater Laboratory of Physical Chemistry of Macromolecular and Biological Interfaces, University of Mascara Mustapha Stambouli, Mascara, Algeria.		
OC04 17:30-17:50	Regeneration of porous carbonaceous materials by hybrid process: chemical-thermal desorption under microwave radiation Dj. Djedouani, and M. Chabani Laboratoire de Génie de la Réaction, Faculté de Génie des Procédés et Génie Mécanique U.S.T.H.B. BP 32, El Allia, Bab Ezzouar, Algérie.		
OC05 17:50-18:10	Comparative study between MgO-impregnation and mechanical mixture effects on the CO₂ adsorption over NaY zeolites H. Bekhti and Y. Boucheffa Laboratoire d'Etude Physico-Chimique des Matériaux et Application à l'Environnement (LEPCMAE), USTHB, Algiers, Algeria.		
OC06 18:10-18:30	Validation of a modified carbon sensor by nanostructured materials for isoproturon trace analysis in water S. Amra, T. Bataille, S. Bourouina-Bacha, M. Bourouina, and D. Hauchard Faculté des Sciences, Université de Bejaia, Bejaia, Algérie.		

Tuesday, march 26,2019			B. Chemical processing, environment and renewable energies.	Time : 16:30-18:30
<u>Code</u> <u>Time</u>	Chairs : Prof. A. BOUKERROU and Dr. S. BELKHIRI			Amphi B
OB07 16:30-16:50	Effect of dissolved-oxygen and hydrogen peroxide on the performances of TiCo_2O_4 and CoFe_2O_4 spinels in photocatalytic degradation of methylene blue under UV light S. Barama, A. Barama, N.A. Laoufi, N. Fodil-Cherif and A. Davidson Laboratoire Matériaux Catalytiques et Catalyse en Chimie Organique (LMCCCO), USTHB, 16111 Bab Ezzouar, Algiers, Algeria.			
OB08 16:50-17:10	Pretreatment of Seawater using Precipitation agents to reduce Scale formation in distillers K. Dahmani and M. Belloul University Centre of Relizane Ahmed Zabana, Institute of Sciences and Technology, BP Relizane, 48000, Algeria.			
OB09 17:10-17:30	Conversion of methane over LaNiZnO_3 Perovskite Catalysts D. Sellam, D. Touati, K. Ikkour, S. Dekkar and M. Halouane. Laboratoire de Recherche de Chimie Appliquée et Génie Chimique, Université M. Mammeri de Tizi-Ouzou, Algérie.			
OB10 17:30-17:50	Catalytic oxydation of a toxic organic dye by H_2O_2 using a catalyst based on well dawson type heteropolyacid S. Bencedira and O. Bechiri University of Badji Mokhtar, BP12 - 23000 Sidi Amar, Annaba, Algeria.			
OB11 17:50-18:10	Magnetic solid-phase extraction of aromatic amines using hybride nanopaticles M. Naous and S. R. Bravo Ibn Khaldoun University, BP 78 zaâroua 14000, Tiaret, Algeria.			
OB12 18:10-18:30	CuO-TiO_2 catalysts prepared by emulsion and impregnation for visible light photocatalytic degradation of methylene blue pharmaceutical waste W. Chettah, S. Barama, M. S. Medjram, A. Davidson and A. Barama Laboratoire de Génie Chimique et Environnement de Skikda (LGCES), Université-20Aout-1955-de-Skikda, Skikda, Algeria.			

Oral parallel sessions 3

Wednesday, march 27,2019		<i>B. Chemical processing, environment and renewable energies.</i>	Time : 11:30-12:30
Code Time	Chairs : Dr. M. IZZEROUKEN and Dr. Y. BOUKOBERINE Amphi A		
OB13 11:30-11:50	Removal of azo dye from aqueous solution by adsorption onto activated clay. Part I: Kinetic study and adsorption isotherm B. Hayoun, S. Terki, H. Messaoudi, M. Bourouina and S. Bourouina-Bacha University A-Mira of Béjaia, Béjaia, Algeria.		
OB14 11:50-12:10	Structural, mechanical and tribological characterization of Al-Si thin film K. Chemaâ, S. Hassani, M. Gaceb and M. Kezrane University of Medea, LMP2M, University center, Medea, Algeria.		
OB15 12:10-12:30	Techno-Economical Optimization of Autonomous Hybrid PV/Wind/Fuel cell Power System M. Douak and Z. Aouachria Laboratory of Applied Energetic Physical, Univ. Batna 1, Algeria.		

Wednesday, march 27,2019		<i>C. Interfacial phenomena and reactivity.</i>	Time : 11:30-12:30
Code Time	Chairs : Prof. Z. MEKHALIF and Dr. S. TAZIBET Amphi B		
OC7 11:30-11:50	Degradation of tetracycline hydrochloride using electrochemical assistant Fe^{3+}/activated peroxydisulfate A. Ledjeri, I. Yahiaoui and F. Aissani-Benissad Laboratoire de Génie de l'Environnement (LGE), Faculté de Technologie, Université de Bejaia, 06000, Bejaia, Algérie.		
OC8 11:50-12:10	Adsorption of acid dyes from aqueous solutions onto acid-activated marble powder H. Saidia Université 20 Août 1955, BP26 - 21000 Route d'El Hadaiek, Skikda, Algeria.		
OC9 12:10-12:30	Structural, vibrational and thermodynamic properties of $(NH_4)_2SO_4$ and NH_4NO_3: Ab initio study S. Bourahla and S. Kouadri Moustefai Laboratory for Theoretical Physics and Materials Physics, Hassiba Benbouali University of Chlef, Hai Essalem, Chlef, Algeria.		

VIP lounge 12:30-14:00	Lunch
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Oral parallel sessions 4

Wednesday, march 27,2019			<i>D. Energetic materials and pyrotechnic systems.</i>	Time : 14:00-15:00
Code Time	Chairs : Dr.A. MOULOUD and Dr. A. MEZROUA			Amphi A
OD01 14:00-14:20	FOX-7-based melt-cast explosifs compositions A. Belaada and W. A. Trzciński Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.			
OD02 14:20-14:40	Which temperature to be used in liquidus line prediction for SLE investigation by DSC? Consistency tests and Uncertainty evaluation S. Chelouche, D. Trache and K. Khimeche UER Procédés Energétiques, Ecole Militaire Polytechnique, EMP, BP 17 Bordj-El-Bahri, Algiers, Algeria.			
OD03 14:40-15:00	Beni-Messous wastewater, a beneficial MFC fuel and a credible renewable energy source M. Azri, I. Tou and M. Sadi Centre de Développement des Energies Renouvelables (CDER), Bouzaréah, Algiers, Algeria.			

Wednesday, march 27,2019			<i>C. Interfacial phenomena and reactivity.</i>	Time : 14:00-15:00
Code Time	Chairs : Pr. H. SATHA and Dr. D. TRACHE			Amphi B
OC10 14:00-14:20	Preparation and characterization of Ti_3AlC_2 MAX phase and Al_2O_3-GdAlO₃ Nano powders for the manufacturing of Al_2O_3-GdAlO₃-Ti_3AlC_2 ceramic composites A. Henniche and J.H. Ouyang Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.			
OC11 14:20-14:40	Methylene blue dye removal through adsorption onto multi-wall carbon nanotubes decorated with amorphous barium oxide nanoparticles A. K. Bhakta, S. Kumari, S. Hussain, P. C. Pais, P. Martis, R. J. Mascarenhas, S. Belkhir, J. Delhalle and Z Mekhalif Laboratory of Chemistry and Electrochemistry of Surfaces, University of Namur, B-5000 Namur, Belgium.			
OC12 14:40-15:00	Electrochemical impedance spectroscopy study of AISI 304 stainless steel in electropolishing conditions S. Detriche, J. F. Vanhumbeeck, J. Delhalle and Z. Mekhalif Laboratory of Chemistry and Electrochemistry of Surfaces, University of Namur, Rue de Bruxelles, 61, 5000 Namur, Belgium.			

Amphi B 15:00-16:00	Closing ceremony
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Poster session 1

CODE	Tuesday, 26 March 2019	<i>A. Polymers and advanced materials.</i>	(Cedoc Hall)	Time: 11:30-12:30
P1S1	Synthesis and characterization of conductive polymer composite based on polypyrrole and surface treated graphene: Application to chemical sensing of nitrogen oxides. <u>D. Guettiche</u> , A. Mekki, B. Lakard, F.M Tighilt, S. Sam, S. Belhousse and R. Mahmoud. Ecole Militaire Polytechnique, BP 17, Bordj El Bahri 16111, Alger, Algérie.			
P2S1	Enzyme-free glucose sensor based on Copper particles /polyaniline composite film <u>O. Belgherbi</u> , D. Chouder, D. Lakhdari and L. Lamiri Research Center in Industrial Technologies CRTI, P.O.Box 64, Cheraga 16014, Algiers -Algeria.			
P3S1	Impact study of new formulations based on Poly vinyl chloride (PVC) <u>N. Lardjane</u> , F. Hamitouche, H. Habchi. Laribi, N. Belhaneche-Bensemra Laboratoire des Sciences et Techniques de l'Environnement. Ecole Nationale Polytechnique, BP 182 El- Harrach, Alger, Algérie.			
P4S1	Using Different Compatibilization Approaches In Eva/Starch Composites <u>H. Hamadache</u> , H. Djidjelli, J. A. Jofre-Reche and J. M. Martín-Martínez Laboratoire des Matériaux Polymères Avancés (LMPA), Université de Abderrahmene Mira, Route de Tara Ouzammour, Béjaia 06000, Algeria.			
P5S1	Electrochemical preparation of a sensitive layer of polypyrrole on QCM in an ionic liquid medium <u>B. Mettai</u> , A.Mekki, S. Kouadri Moustefai, W. Kermouche, H. Lagha, F. Merdj, A. Abdi and R. Mahmoud Laboratoire eau-environnement, Université Hassiba Ben Bouali, Chlef, Algérie.			
P6S1	Electrodeposition of a Composite Material Film Based on Polypyrrol/Ag Particles on a Flexible Substrate: Application on the Detection of Volatile Organic Compounds F. Merdj, A. Mekki, D. Guettiche, B. Mettai, W. Kermouche, A. Abdi, Z. Safidine, S. Kouadri Moustefai and R. Mahmoud. Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.			
P7S1	Electrochemical and characterization of Palladium-modified Polybithiophene electrode for the electrocatalysis detection of glucose <u>L. Lamiri</u> , B. Nessark, O. Belgherbi, C. Dahchar, R. Yekhlief and S. Laidoudi Research Center in Industrial Technologies CRTI, Thin Films Development and Applications Unit - (UDCMA) -Setif, Algeria.			
P8S1	Synthesis and characterization of an intelligent material (Polyurethane with Shape memory) <u>A. Boudjellal</u> , K. Khimeche and S. L. Hafsaoui Direction des fabrications militaire, MDN, Alger, Algérie.			
P9S1	Elaboration and characterization of carbone-polymeric membranes. Application for pharmaceutical micropollutant removal from waters F. Boukraa, M. Nadour and A. Benaboura Laboratoire de Synthèse Macromoléculaire et Thioorganique Macromoléculaire, Faculté de Chimie.			
P10S1	Synthesis, structural study and thermal stability of terbium and samarium complexes with 1,10-phenanthroline <u>R. Maouche</u> , S. Belaid, B. Benmerad, S. Bouacida and O. Guillou Laboratoire de Physico-Chimie des Matériaux et Catalyse, Campus Tagua Ouzemmour, Université Abderrahmane Mira, Bejaia, Algérie.			
P11S1	Advanced Materials Based of Polymer Used for Repairing in Civil Engineering <u>G. Mirouzi</u> , A.Houda and B. Redjel Physical & Chemistry department school Superior the Teacher of Teaching Technological (ENSET) Azzaba Skikda, Algeria.			
P12S1	Experimental comparison between the different ranges of PLA feedstock 3D printing and their influence on the mechanical properties of printed parts <u>M.S. Razali</u> and K. Khimeche Institut De Recherche Et Développement En Industrie Et Technologies De Défense, Blida, Algérie.			

P13S1	Synthesis and characterisations of PS/PANI composite material prepared by in situ process disstined for antistatic field F.Z. Hamlaoui, N. Naar, M. Bouchelaala, and A. Benaboura Laboratory of Macromolecular Synthesis and Thio-Organics Macromolucular, USTHB; Faculty of Chemistry ,Bab Ezzouar, Algiers, Algeria.
CODE	B. Chemical processing, environment and renewable energies. (Cedoc Hall) Time: 11:30-12:30
P14S1	Electrochemical and corrosion behaviors of lead-acid battery in the presence of polyaniline hydro-soluble in 0.5 M H₂SO₄ medium N.Boudieb, M. Bounoughaz and Z. Safidine University M'Hamed Bougara, Boumerdes-UMBB, Laboratory of Polymers Treatment and Forming, Boumedes, Algeria.
P15S1	Study of the adsorption of a dye on a silica gel derived from the kaolin siliceous by-products D.Ingrachen-Brahmi, H. Belkacemi and L. Ait Braham-Mahtout Chemistry Department, Laboratory of Materials Technology and of Process, University of A. Mira, Bejaia, Algeria.
P16S1	Textural properties and carbon dioxide adsorption enhancement of Mordenite zeolite synthesized in the presence of a new organic template Z. Farouk, M. Hachemaoui, B. Bensafi and N. Chouat Laboratoire de chimie des matériaux, Université Oran 1 Ahmed Ben Bella, Oran, Algérie.
P17S1	Removal of Organic Pollutants from Wastewater by New Granules (Fe-PIOCG) With Gluten A. Louadj, O. Bouras, B. Cheknane and F. Zermane Laboratoire Eau Environnement et Développement Durable, Université Saad Dahlab-Blida 1, Blida, Algérie.
P18S1	Rapid Separation of flavonoids from dichloromethane extract of <i>Centaurea melitensis</i> L. (Asteraceae) by Fast Centrifugal Partition Chromatography and antibacterial activity N. Mezache, F. Rahmouné and H. Laouar Faculty of Sciences, Department of chemistry, University of Setif 1, Algeria.
P19S1	Durability of ultra high performance fibered concretes in two acidic environments F. Ait Medjber and M. Saidi Unité de Recherche Matériaux, Procédés et Environnement, Université M'Hamed Bougara. Boumerdes, Algérie.
P20S1	Feasibility study of CO₂ absorption process using ionic liquid as solvent N. Amiri, H. Benyounes and I. Touaibia Université des sciences et de la technologie d'Oran USTO-MB, département de Génie chimique, Oran, Algérie.
P21S1	Feasibility study of pressure-swing distillation process for separation of formic acid – water - acetic acid B. Mahida and H. Benyounes Laboratoire de chimie physique de matériaux, catalyse et environnement, USTO, Oran, Algérie.
P22S1	Separation of ethanol – water mixture using ionic liquids M. Addouni and H. Benyounes Laboratoire de chimie physique de matériaux, catalyse et environnement, U.S.T.O, Oran, Algérie.
P23S1	Influence of hydrogen bonding network on the vibrational spectroscopic and dielectric properties of new imidazolium based ionic liquids M. Boumediene, B. Haddad, R. Omeiri and H. Tahiri Department of Chemistry, Faculty of Sciences, University of Saida - Dr. Moulay Tahar- Algeria.
P24S1	Removal of Malachite green cationic dye from aqueous solutions by UV/Persulfate process and effect of various water constituents N. Mechehoud, C. Djelloul and I. Amallal Laboratory of Chemistry of Materials and Living, Activity and Reactivity, University of Batna, Batna, Algeria.
P25S1	Study of structural and optical properties of porous thin a-SiC:H films for optical energy A. Boukezzata, B. Mahmoudi, H. Menari and S. Kaci Centre de Recherche en Technologie des Semi-conducteurs pour l'Energétique (C.R.T.S.E), Algiers, Algeria.

P26S1	The physico-chemical characterization of the rejects resulted from the gold ore treatment A. Baziz and N. Bouzidi Laboratoire de Technologie des Matériaux et de Génie des Procédés, Université A/MIRA-Bejaia, Algeria.
CODE	Tuesday, 26 March 2019 C. Interfacial phenomena and reactivity (Cedoc Hall) Time: 11:30-12:30
P27S1	Inhibition of corrosion by a synthetic derivative of pyrazole on the corrosion of mild steel in an aggressive medium and his studies of quantum chemistry F. Boudjellal, H. B. Ouici Department of Chemistry, Faculty of Science, University of Saida, Algeria.
P28S1	Application of Sodium Methyl Ester Sulfonate Anionic Surfactants as Corrosion Inhibitors for Carbon Steel in Oilfield Injection Water A. Asselah, A.M. Chaouche, A. Toudji and A. Tazerouti Université de M'Hamed Bougara, Département du Génie des Procédés, Avenue de l'indépendance - Boumerdès, Algeria.
P29S1	Partial phase diagram and micellar properties of Tetracaine hydrochloride from thermal conductivity measurements C. Zelmat, T. Fergoug, Y. Bouhadda, F. Chater and A. Belfedal Laboratoire de Chimie physique des biomolécules et interfaces biologiques, Université de Mascara, Mascara, Algeria.
P30S1	Effect of kaolin on textural, structural and adsorption properties of Ca-exchanged A zeolite. M. Guerza, F. Benaliouche, M. A. Benachaabane and Y. Boucheffa Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.
P31S1	Effect of Current Density on the Microstructure and Morphology of the Nickel Coatings A. Boukhouiete, S. Boumendjel and J. Creus Laboratoire de Métallurgie Physique et Propriété des Matériaux, Université Badji-Mokhtar, Annaba, Algeria.
P32S1	The influence of the deformation in cold rolling formatting on the characteristics of the oxide layer obtained by anodization on the ALUMINIUM alloy of TYPE 2024 S. Benamirouche, A. Abdi and M.A. Belouachrani Laboratoire d'Electrochimie et de Corrosion, Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.

Poster session 2

CODE	Tuesday, 26 March 2019 A. Polymers and advanced materials. (Cedoc Hall) Time: 15:40 – 16:30
P1S2	Thermal and structural characterization of hardwood lignin obtained by Kraft and Organosolv processes M. Fodil Cherif, D. Trache and F. Benaliouche Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.
P2S2	Properties of pure and Mn doped ZnO nanopowders by co-precipitation method A. Boumezoued, K. Guergouri, M. Zaabat and B. Regis Laboratory of Active Components and Materials, University Larbi Ben M'Hidi of Oum El Bouaghi, Algeria.
P3S2	Structural and electronic study at the DFT and TD-DFT level of new gold (III) complexes of bio-pharmacological interest Y. Arbia and M. Brahimi Laboratory of Theoretical Physico-Chemistry and Computer Chemistry, Faculty of Chemistry. USTHB, Algiers. Algeria.
P4S2	Hydrolytic degradation ability of poly(L-Lactide) achieved by adding poly(methyl methacrylate) N. Boudaoud and H. Satha Laboratory of Silicates, Polymers and Nanocomposites (LSPN), University of 8 Mai 1945, Guelma, Algeria.
P5S2	Development and characterization of carbon chamotte mixtures during sintering A. Belbali and K. Loucif Laboratory of non-metallic materials, institute of optics and precision mechanics, Ferhat Abbas University Setif1, Algeria.

P6S2	Effect Of Alkali Treatment On The Mechanical And Morphological Properties Of Polypropylene/Wood Flour Composite F. Kabache and S. Nekkaa Laboratoire Physico-Chimie des Hauts Polymères, Université Ferhat ABBAS Sétif -1-, Sétif, Algeria.
P7S2	Chemical synthesis of polyaniline and study of its effectiveness corrosion inhibition of API 5L Gard X60 steel in acid medium D. Ghemati, N. Boudieb and D. Aliouche Laboratory of Polymers Treatment and Forming. F.S.I, M'Hamed Bougara University, Boumerdes, Algeria.
P8S2	Photo-thermal oxidation of polypropylene modeling of carbonyl index using artificial neural network H. Maouz, L. Khaouane, S. Hanini, Y. Ammi, and M. Laidi Laboratory of Biomaterials and Transport Phenomena (LBMPT), University of Médéa, Médéa, Algeria.
P9S2	Effect of hybridization material on buckling analysis of composite plates on elastic foundation using new theory of trigonometric deformation K. Benselama, N. El meiche, E. Adda Bedia and A. Tounsi Département Génie civil, centre universitaire Ahmed Zabana de Relizane, Algérie.
P10S2	Study of the immiscibility SBS/PCL polymer blend D. Metref and L. Metref Centre de recherche nucléaire de Draria, Alger, Algérie.
P11S2	Study of the thermal stability for shape memory polymers L. Metref, S.L. Hafsaoui and Z. Safiddine Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Alger, Algérie.
P12S2	Characterization of Algerian Eucalyptus tannins for a potential use in resin and foam formulation M. Amari, K. Khimeche and A. Pizzi Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.
P13S2	Green composite adsorbent (biopolymer-activated carbon): synthesis and application for methylene bleu removal A. Boucherdoud, B. Bestani, D. Kherroub, N. Benderdouche and O. Douinat Laboratory of structure, development and application of molecular materials, University of Mostaganem, Algeria.
CODE	<i>B. Chemical processing, environment and renewable energies.</i> (Cedoc Hall) Time: 15:40 – 16:30
P14S2	Removal of azo dye from aqueous solution by adsorption onto activated clay. Part II: response surface methodology approach. B. Hayoun, O. Deflaoui, S. Terki, H. Messaoudi, M. Bourouina and S. Bourouina-Bacha University A-Mira of Béjaia, Béjaia, Algeria.
P15S2	Preparation and Characterization of new local clays from Ghardaïa (Algeria) for their potential uses in wastewater treatment S. Athman, M. Boufatit and F. M. Azizi Laboratoire d'Electrochimie-Corrosion, Métallurgie et Chimie Minérale, Faculté de Chimie, USTHB, Alger, Algérie.
P16S2	Ab-initio calculations of Optoelectronic Properties of $Al_xGa_{1-x}N$ semiconductors A. Kafi, F.Z. Driss Khodja, F. Saadaoui Laboratory of Technology of Communications - Laboratory of Physico-chemical Studies, University of Saïda 20000 Saïda, Algeria.
P17S2	Electrochemical Determination of Pyrogallol at Aluminum Oxide Modified Paste Carbon Electrodes L. Taouri and M. Bourouina Département de Chemistry, University of Bejaia, Algeria.
P18S2	Extractive distillation of Ethanol-Water using a mixture of organic solvent and ionic liquid as entrainer F. Guella and H. Benyounes University of Sciences and Technology of Oran Mohamed Boudiaf, Oran, Algeria.

P19S2	Volatile fatty acids analysis in anaerobic digestion of cattle manure M. Saber, N. <u>Tirichine</u> , M. Fedailaine, L. Kadir, M. Khitous, S. Abada, A. Saidi, K. Moussi and M. Aziza Centre de Développement des Energies Renouvelables, Algiers, Algeria.
P20S2	Synthesis of acetylisoniazid and validation of the detection method by HPLC L. Yahia Cherif, D. Sadouki and S. Tazibet Hopital Centrale de l'Armée, Ain naadja, Algiers, Algeria.
P21S2	Activated Carbon Coated Magnetite Nanoparticles as a Heterogeneous Catalyst for Dye removal S. <u>Halladja</u> , H. Ayadi and F. Djaghroud Université 20 août 1955, B.P 26 El Haddaïk, Skikda, Algeria.
P22S2	Determination of liquid-liquid equilibrium for ternary system {water + ethanol + ethyl acetate} at 293.15 K A. Aidaoui and A. Hasseine Université Mohamed Khider, Biskra, Algeria.
P23S2	Predicting the effective thermal conductivity of Alumina/water and Alumina/Ethylene glycol nanofluids using artificial neural network W. Grine and M. E. Benhamza Laboratory of Industrial analysis and Materials Engineering. University 8 May 1945, Guelma, Algeria.
P24S2	Ethanol production from paper waste W. <u>Tadmourt</u> , K. Khiari and L. Tarabet Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.
P25S2	Activated carbon prepared and used as a filter for volatile organic compounds retention N. Yousfi, H. Fettaka and S. Tazibet Institut de Recherche et Développement en Industrie et Technologies de Défense, Blida, Algérie.
P26S2	Extraction of aromatic compounds from water using a mixed solvent F. <u>Rabhi</u> , H. Sifaoui Laboratoire de Physico-Chimie des Matériaux et Catalyse (LPCMC), Université A. MIRA de Bejaia, Bejaia.
CODE	Tuesday, 26 March 2019C. <i>Interfacial phenomena and reactivity</i>(Cedoc Hall)Time: 15:40 – 16:30
P27S2	Thermal desorption of water over Ca-LTA zeolite-Diatomite based adsorbents F. <u>Baba</u> , F. Benaliouche, F. Ait Ihaddadene and Y. Boucheffa Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.
P28S2	Interfacial Adhesion behavior of sputtered titanium thin films deposited onto steel substrates R. <u>Gheriani</u> and D. Slimani Laboratory of Radiation, Plasma and Surface Physics (LRPPS), Faculty of Mathematics and Sciences of matter University of Ouargla, Algeria.
P29S2	Electrochemical Evaluation of n-Butanolic Extract of Taxus Baccata as Corrosion Inhibition for Carbon Steel in Acidic Medium K. <u>Hanini</u> , M. Benahmed, S. Boudiba, I. Selatnia, S. Akkal and H. Laouer Laboratory of active molecules and applications, Tebessa University, Tebessa, Algeria.
P30S2	Comparative study on electrodeposition and characterization of Ni, Co and Ni-Co thins layers on platinum substrate A. <u>Boukazoula</u> , A. Abdi, R. Bendrimia, Y. Mechelouf Laboratory of electrochemistry and corrosion, polytechnic military school, PB 17, BEB 16046, Algiers, Algeria,
P31S2	Determination of polythiophenethermoelectric properties deposited in thin layers on a flexible ITO substrate Z. <u>Bekkar Djelloul Sayah</u> , A. Mekki, F. Delaleux, O. Riou and J.F. Durastanti Ecole Militaire Polytechnique, BP17 Bordj El-Bahri, 16046 Alger, Algérie.
P32S2	Adsorptive desulfurization of diesel fuel using Ni- exchanged ZSM-5 N. <u>Dif</u> , F. Benaliouche, B. Boukoftane and Y. Boukoberine Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.

Poster session 3

CODE	Wednesday, march 27, 2019A. <i>Polymers and advanced materials.</i> (Cedoc Hall) Time: 09:45 – 10:30
P1S3	A Homogenous Material Composed of PVC and EVA Applied in Thermal Conditions and Resistant to Gamma Irradiation up to 50 KGy N. Boutouchent-Guerfi, and A. Benaboura Laboratoire Synthèse Macromoléculaire et Thio-Organique Macromoléculaire, (USTHB),16046 Algiers, Algeria.
P2S3	In-situ preparation of polyurethane-clay nanocomposites in the presence of Maghnite as an inorganic reinforcement for multifunctional mechanical properties T. Boulaouche, D. E. Kherroub, K. Khimeche, A. Benzerafa and M. Belbachir Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.
P3S3	Development and in vitro Release Study of 2-Amino-benzothiazole Loaded Microspheres M. Mouffok, A. Merdoud, A. Mesliand N. Chafi Physical and Organic Macromolecular Chemistry Laboratory (LCOPM), Faculty of Exact Sciences, Djillali Liabes University of Sidi Bel-Abbes, Algeria.
P4S3	Study of thermal and mechanical behavior of bionanocomposites films based on PLA and PHVB F. Z. Yakdouni and A. S. Hadj Hamou Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.
P5S3	Study and Characterization of Composites Materials Based on Thermoplastic matrix and natural fiber H. Aouat, A. Boukerrou, D. Hammiche, H. Djidjelli, Y. Grohens and I. Pillin Laboratoire des Matériaux Polymères Avancés (LMPA), Faculté de Technologie, Université Abderrahmane Mira, Bejaia, Alegria.
P6S3	Effect of the micromechanical models on the bending of FGM beam using a new hyperbolic shear deformation theory N. Zouatnia and L. Hadji Department of Civil Engineering, University of Tiaret, Algeria.
P7S3	Effect of porosity on mechanical response of a functionally graded beams L. Hadji, N. Zouatnia and A. Safa Department of mechanical Engineering, Ibn Khaldoun University, Tiaret, Algeria.
P8S3	Ammonium sensing using a facile chemical polymerization polyaniline-strontium composite film S. M.Benhouhou and A.Mekki Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.
P9S3	Polyaniline nanoparticles: microemulsion synthesis using sds as a surfactant M.Bounedjar, A. Mekki, N.Naar and H.Chabane Ecole Militaire Polytechnique, BP 17 Bordj El Bahri 16046, Alger, Algérie.
P10S3	Stability of Hassi-Messaoud asphaltenes in media of different polarities K. Kradra Brahma, D. Bendedouch, Y. Bouhadda, F. Bouanani and A. Sardi Laboratoire de Chimie Physique Macromoléculaire, Département de Chimie, Université d'Oran, Oran, Algérie.
P11S3	Study and development of polymer blends; PP / PP-G-MAH / PLA / Pro-oxidants F. Hayoune and S. Zitouni Polytechnic military school, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.
P12S3	Mechanical and microstructural characterization of polyurethane foams N. Boumdouha, Z. Safidine, A. Boudiaf, A. Oukara, D.E. Tria and A. Louar Ecole Militaire Polytechnique BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.

CODE	<i>B. Chemical processing, environment and renewable energies</i> (Cedoc Hall) Time: 09:45 – 10:30
P13S3	Study of the adulteration of olive oil by Fourier Transform Infrared Spectroscopy and chemometric methods K.Bekkar, R.Oumeddour and S.Nigri Industrial Analysis Laboratory and Materials Engineering, University 8 May, 1945. Guelma, Algeria.
P14S3	Group Contribution Estimation of the Physical Properties of Hydrocarbons O. Rebas, B. Boutra, K. Battou, N. Skander and E.C. Chitour Laboratory of Valorization of Fossil Energies, Department of Chemical Engineering, Polytechnic National School, Algiers – Algeria.
P15S3	Contribution to the phytochemical study and antibacterial effect of phenol and flavonoid contents in <i>Trigonella foenum-graecum</i>L. from Algeria K.Hachama, A. Khadraoui, A. Hellal, L. Touafri and M. Sahmadi Laboratory of the natural substances valorization, Djilali Bounaama University.
P16S3	Treatment of Tannery Effluent by Electrooxidation Process using Sodium Persulfate as Catalyst A.Benhadj and M.Taleb Ahmed Laboratory of Reaction Engineering, USTHB, Algiers, Algeria.
P17S3	Modeling of water transport in soil column H. Bouredji, A. Merzougui, S. Rennane and N. Bendjaballah-Lalaoui Laboratoire des Matériaux Catalytiques et Catalyse en Chimie Organique, USTHB, Alger, Algérie.
P18S3	Removal of cationic methylene blue dye from aqueous solution by modified montmorillonite H. Rezala University of Khemis-Miliana, Faculty of Science and Technology, Thenia El Had Road, Khemis-Miliana, Algeria.
P19S3	Degradation of paracetamol in dynamic mode in a reactor with a spiral geometry by photo catalytic material H.Ghoualem and F.Naitali Laboratory of Electrochemistry-Corrosion, Metallurgy and Inorganic Chemistry, USTHB, Algiers. Algeria.
P20S3	Improving Stability for Organic Solar cells using a new encapsulated Architecture. A.bengrine and D. Chalal Université Ferhat Abbas Sétif-1, Sétif, Algérie.
P21S3	Isolation and characterization of cellulose microcrystalline from date palms M.Beroual, O. Mehelli, L. Boumaza, D.Trache and K.Khimeche UER Procédés Energétiques, Ecole Militaire Polytechnique, Bordj-El-Bahri, Algiers, Algeria.
P22S3	Investigation into the application of the electroremediation process to the removal of Pb²⁺ from an artificial soil K. Kada, A. Abdi and D.E. Akretche Ecole Militaire Polytechnique, BP17 - 16046 Bordj El-Bahri, Algiers, Algeria.
P23S3	Phytochemical analysis and assesment of antioxidant activity of <i>Tetralinis articulata</i> (Vahl) Masters leaves B. Bensebia, G. Belloumi, O. Bensebia and S. Kouadri Mostefaï Laboratoire "Chimie Verte-Eau", Faculté de Technologie, Université Hassiba Benbouali-Chlef, Chlef, Algeria.
P24S3	Hydrochemical characteristics of the ground Waters of Ain Defla H.Haddad, F. Benrejda and H. Goualem Laboratory of Electrochemistry-Corrosion, Metallurgy and Inorganic Chemistry. Faculty of Chemistry. USTHB. Algiers. Algeria.
P25S3	Application of response surface methodology to optimize elimination of organic pollutants in water using photocatalytic oxidation process K. Akhrib, A. Bensmaili, Y. Kadmi and M. Berkani Faculté de Génie des Procédés et Génie Mécanique El Allia, Bab ezzouar, Algérie.

CODE	Wednesday, march 27, 2019	<i>C. Interfacial phenomena and reactivity</i>	(Cedoc Hall)	Time: 09:45 – 10:30
P26S3	Comparaison of the Semi-Conducting Properties of Tin Sulfide Prepared by Chemical and Electrochemical Methods <u>S.Kabouche</u> , Y.Louafi and M.Trari Laboratory of Electrochemistry-Corrosion, Metallurgy and Inorganic Chemistry, Faculty of Chemistry, U.S.T.H.B, Algiers, Algeria.			
P27S3	DFT investigation: Molecular and electronic properties of homogeneous trinuclear complexes of formulas $M_3(\text{Ant})_2$, $M_3(\text{CO})_2(\text{Ant})_2$ (M= Ti, Cr, Fe and Ni) <u>N. Bensalem</u> and B. Zouchoune Laboratoire de chimie Appliquée et Technologie des Matériaux, Université Larbi Ben M'hidi, Oum El Bouaghi, Algérie.			
P28S3	Electrodeposition of Cu_2O thin film on titanium substrat and its application in the oxidation of ascorbic acid <u>T. Bezghiche-Imloul</u> and H. Hammache-Makhloufi Laboratoire d'Electrochimie, de Corrosion et de Valorisation Energétique, Faculté de Technologie, Université de Bejaia, Bejaia, Algérie.			
CODE	Wednesday, march 27, 2019	<i>D. Energetic materials and pyrotechnic systems</i>	(Cedoc Hall)	Time: 09:45 – 10:30
P29S3	Isothermal decomposition kinetics of two single base gunpowders used in 7.62×39mm and 9×18mm calibers <u>D. S. Karahacane</u> , A. Dahmani, K. Khimeche and A. Mezroua Laboratory of Thermodynamics and Molecular Modeling, Faculty of Chemistry, USTHB, Bab-Ezzouar, Algiers, Algeria.			
P30S3	Evaluation of theoretical performances of composite solid propellants <u>F. Chalghoum</u> , D. Trache and M. Benziane Ecole Supérieure du Matériel, El-Harrach,Algiers, Algeria.			
P31S3	Study of the Migration of Combustion Moderator for Nitrocellulose Based Propellant <u>K. M. Boulkadid</u> , M.. H. Lefebvre, L. Jeunieu and A. Dejeaifve UER. Procédés Energétiques, Ecole Militaire Polytechnique EMP, BP 17 Bordj El-Bahri, 16046 Algiers, Algeria.			