

IMPORTANT: FINAL VERSION UPDATED ON DECEMBER 17TH, 2019; ACCORDING TO THE ATTENDANCE!

Technical Program CI3E-FPN 2019

Thursday, November 14, 2019

09:00 – 10 : 00	Welcome and Registration (Amphitheatre J)
10 :00- 11 :00	Opening Ceremony
11 :00- 12 :30	Plenary Conferences (Chairs : Kamal Abrkani/ Khadija Haboubi) - 45min/keynote.

- Pr. Shehede Jodeh : CONTAMINATION ASSESSMENTS USING THE ECOLOGICAL RISK AND GEO-ACCUMULATION INDEX FOR TRACE METALS FROM SURFACE SEDIMENTS OF WADI AL-QILT, WEST BANK, PALESTINE
- Pr. Zoulikha Irzi: TERRITOIRE LITTORAL FACE AU DOUBLE ENJEU : AMENAGEMENT ET PROTECTION.QUELLES SOLUTIONS ENTREPRENDRE POUR UNE GESTION DURABLE.CAS DU LITTORAL MEDITERRANEEN DU NORD-EST DU MAROC

12: 30 - 13: 30 Lunch (Bloc des professeurs)

13:30 - 16:00 Session I (Bloc de Recherche ; at the second floor) - 12min/conference.

Parallel Sessions

Poster (Bloc de Recherche ; at the second floor)

Room	Room 1	Room 2	Room 3
Session I	S1.1 Solide and Waste	S1.2 Water	S1.3 Biodiversity and sustainable development
Chairs	Pr. Salah Eddin Samri	Pr. Ali Boularbah	Pr. Said Mourad

13: 30-16:00 Room 1 Session I.1: Solide and Waste Chair : Pr. Salah Eddin Samri

1) Use of natural topsoil and organo-mineral amendments as a tool for restoration of acidic mine tailings- A. MADLINE, L. BENIDIRE, M. BEROIGUI, A. MICHALSKI, M. WALCZAK, P. CHARZYŃSKI, A. BOULARBAH.

2) Domestic wastewater treatment from the wastewater treatment plant (wwtp el brouj) by physico-chemical (coagulation-floculation) process-N. AI JADABI, S. EI HAJAJI & M. LAAOUAN, & J.MABROUKI.

3) Traitement des effluents liquides issus d'une industrie aéronautique par un procédé d'électrocoagulation-S. NAMOUSSI, M. CHLAIDA, C. MERBOUH, M. KABRITI ET N. IOUNES.

4) Heavy metal speciation during co-composting process of poultry manure mixture-N. Benejar, S. KHOLTEI, S. KRIMI BENCHEQROUN & H. HOUMAIRI.

5) Recyclage d'eau rejetée par l'osmose inverse de la salle de traitement des eaux de dialyse au centre hospitalier Hassan II de Fes.-R. El Habbani, A. Chaqroune, A. Lahrichi, R. Kachkoul, M. Mohim, T. Sqalli Houssaini.

6) Effet des traitements physico-chimiques sur les caractéristiques des boues activées de station d'épuration de MOstaganem, Algerie- L. HAMMADI.

7) Adsorption d'un colorant cationique sur le marc de café non traité : cinétique, isotherme et Thermodynamique- I.LOULIDI, A.AMAR, F.BOUKHLIFI, A.KALI, M.OUCHABI.

8) Evaluation of the effectiveness of wastewater treatment plants by the genotoxicity test on vicia faba roots- M.OUBANE, A. KHADRA, A. EZZARIAI, L. KOUISNI & M. HAFIDI.

9) Fenton and photo-fenton as advanced oxidation processes for wastewater remediation of fez city (morocco)- M. KACHABI, M. NAWDALI2& H ZAITAN

13.30-16:00 Room 2 Session I.2: Water Chair : Pr. Faissal Aziz

10) Le radon dans l'eau- A. Tayebi, M. Tayebi et M. El Maghraoui

11) Etude comparative de l'adsorption de l'orange du méthyle par une argile synthétique préparée par deux méthodes (l'urée et la coprecipitation)-A. ZAGHLOUL, M. ABALI, R. BENHITI, A. AIT ICHOU, A. SOUDANI, M.CHIBAN, M. ZERBET, F. SINAN

12) Treatment of industrial wastewater from the company lesieur-cristal by natural flotation-C.HADDAJI, S.SOUABI, K.DIGUA.

13) Contribution à la préparation d'implantation de la norme empreinte eau (iso 14046) au sein de la Cosumar Casablanca- Y. ERROGUI, A. NAHLI, S. KASSEH, K. NAHLI, K. CHBIHI & M. CHLAIDA.

14) Landfill leachate treatment using a sequence of Fenton and adsorption processes- I. EL MRABET, M. BENZINA & H. ZAITAN.

15) Study of the removal of methyl green in an aqueous solution with a low-cost bioadsorbent- NAHALI.L, ASSILA.O, MIYAH.Y, EL BADRAOUI.A, BOUTGUELMOUST.J, KHERBECHE.A, ZERROUQ.F

16) Adsorption of cadmium from aqueous solution onto Moroccan natural clays in the form of honeycomb monoliths- M. AHROUCH, K.DRAOUI, J.M. GATICA, H.VIDAL & D.BELLIDO.

13.30 - 16:00 Room 3 Session I.3: Biodiversity and sustainable development Chair: Pr. Said Mourad

17) Effet de la contrainte hydrique sur la croissance et la production en grains de six variétés marocaines de blé dur- Abdelali BOUSSAKOURAN, Mohamed EL YAMANI, El Hassan SAKAR, Yahia RHARRABTI.

18) Diversity and structure of woody vegetation groups on Beni Bousera's serpentine: impact and interest- A. EL GHALABZOURI, A. KHAMLICI, R. AJBILOU & M. ATER.

19) Reservoir sedimentation modelling based on two approaches: artificial neural network and sediment yield model (musle) coupled with regression model- ALI EL BILALI, ABDESLAM TALEB.

20) Bioaccumulation des pesticides chez la moule *mytilus galloprovincialis* issue d'un milieu naturel pollué (COTE ATLANTIQUE, MAROC)- A. KHALIL, J. SIF, H. EL HAMRI & N. BARAKATE.

21) Hexavalent chromium reduction by bacterial from abandoned mine soil- KAOUTAR HARBOUL, KHALIL HAMMANI, ABDENBI EL KARKOURI.

22) Niveau de la contamination métallique de trois espèces de poissons de l'oued Moulouya- M. MAHJOUR, M. EL MAADOUDI & Y. SMIRI.

23) Silicon effects on water conservation traits in winter bread wheat (*triticum aestivum*) under drought conditions- FE. RACHDAD, O. BOUHLAL, A. EL BAOUCHIL, M. SANCHEZ GARCIA, N. MORADTALAB, C. ZUCCA, A. VISIONI & K. EL BOUHMADI.

24) Evidence for multiple-insecticide resistance in urban culex pipiens (diptera: culicidae) populations from Mohammedia in central morocco and the use of plants as a potential biocide - S. ABOULFADL, C. FARAJ, B. AOUIINTY, N. RHALLABI, R. AIT MHAND & F. MELLOUKI.

25) Tolerance to salinity and dehydration in the Sahara Desert blue-eyed turtle, *Mauremys leprosa* Saharica (Testudines: Geoemydidae) from a brackish pond in the Lower Draa basin, southern Morocco- S. Ioulida, M. Znari, M. Naimi & S. Bendami.

16:00 - 16:30 Coffee Break (Bloc des professeurs)

16:30 – 18:30 Session II (Bloc de Recherche ; at the second floor) - 12min/conference.

Parallel sessions

Poster (Bloc de Recherche ; at the second floor)

Room	Room 1	Room 2	Room 3
Session II	SII.1 Climate change	SII.2 Water	SII.3 Air and Soil
Chairs	Pr. Jalal Isaad	Pr. Ahmed Zian	Pr. Shehede Jodeh

16:30 -18:30: Room 1 Session II.1 : Climate change Chair : Pr. Jalal Isaad

26) Impact of climatic change on the spatial distributional of zika virus potential vectors in morocco: referring to climate change projections of 2050 - A. OUTAMMACHINE, S. ZOUHAIR, S. BOUSSAA, S. LOQMAN.

27) Changement climatique et risque hydrologique une menace pour les zones côtières basses et les agglomérations urbaines des plaines alluviales (cas de la plaine côtière de Saïdia et la plaine alluviale de Jbel Lhamr) - HANAE BOUHABA, ZOULIKHA IRZI ET MOUNIA MOUZOURI.

28) Assessment of temperature and precipitation on Casablanca region (Morocco) by using a statistical downscaling method- R. LACHGAR, W. BADRI & M. CHLAIDA.

29) Climate evolution- NAIMA BOUZA and MOHAMED AHABCHANE.

30) Climate change effect on the bud break and flowering dates of the apple trees in mountainous and plain regions of Algeria- AICHA ABED, MARC BONHOMM, ANDRE LACOINTE, GAETAN BOURGEOIS, AND DJAMEL BAALI CHERIF.

16 :30 –18 : 30 Room 2 SESSION II.2. Water Chairs : Pr. Ahmed Zian

31) Le dessalement de l'eau de mer et des eaux saumâtres : vers une approche de transfert technologique de la Chine vers le Maroc – Pr. Nasser Bouchiba (QT Water Technologies).

32) Traitement des eaux usées de la step M'Zar par adsorption à base de broyat de carapace de crevette : Elimination des ions nitrates - M. Abali, A. Zaghoul, A. Ait ichou, M. Chiban, M. Zerbet, F. Sinan.

33) Environmental and biological applications of nitrogenous macromolecules- JALAL ISAAD

34) Study of the effect of acid activation of a local clay on its structural and textural properties- I.OCHCHANE, I.ETEBAAI, S.GUTIERREZ RUIZ, H.CHERKAOUI DEKKAKI, T.MOURABIT, J.MARIA QUIROGA ALONSO, M.HASSANI ZERROUK.

35) Study of catalytic performance for the oxidation of methyl green dye using cu-clay catalyst with H₂O₂ - ASSILA.O, NAHALI.L, MIYAH.Y, BOUTGUELMOUST.J, EL BADRAOUI.A, ZERROUQ.F, KHERBECHE.A.

36) Caractérisation physico-chimique et géochimique des eaux de puits, de surfaces et des sources de la zone contaminée par les déchets de la mine de fer de Nador- S. HMAMOUCHE, L. MESRAR, N. EL OUTASSI, B. LOUASTÉ, R. JABRANE

37) Microbiological assessment of groundwater quality in the saïs plain - S.LOTFI, D. BELGHYTI

38) Processes affecting piezometric conditions and groundwater quality in the Nekor-Ghiss aquifer, MOROCCO - S.BOUHOUT, K.HABOUBI & M.S. EL YOUBI

39) Quality physico-chemical and bacteriological study of the water course of Oued Inaouene (Taza region) - F. SGHIOUER, M. BEN ABBOU, H. BOUKA, A. NAHLI, M. CHLAIDA.

40) Anaerobic treatment of fuel washing water from thermal power plant of Mohammedia - Z.ETTALOU, S.SOUABI, A.TALEB.

41) Water resources physico-chemical quality and vulnerability to leachate pollution in the area of Al-Hoceima Province- B. EL-ABBADI, K. HABOUBI, M. ELAZZOUI, M. BENMAKHOULF.

42) Les eaux souterraines du massif de BOKOYA : qualité, consommation humaine et irrigation- M. BOUAISSA*, E. GHARIBI, M. GHALIT1& J.D. TAUPIN.

16 :30 – 18 :30 Room 3 Session II.3 : Air and Soil Chair : Pr. Shehede Jodeh

43) Gis-based evaluation of the soil quality in the perimeter of Sidi Yahya, Gharb plain (MOROCCO)- M.Lahmar, N. El Khodrani, S.Omrana, H. Dakak, A. Douaik, H. Iaaich, M. El Azzouzi, M.Mekkaoui and A. Zouahri.

44) Human health risk assessment of fecal coliforms and trace elements in urban park soils of the cities of Marrakech, Morocco AND Toruń, Poland - M. BEROIGUI, A. MADLINE, L. BENIDIRE, S.ROZANSKI & A. BOULARBAH.

45) Evaluation of the level of contamination by heavy metals of agricultural soils in the Sfafa region (SIDI SLIMANE, GHARB, MOROCCO) - N. EL KHODRANI, S. OMRANIA, A. ZOUAHRI, A. DOUAIK, H. IAAICH, AND M.FEKHAOU.

46) Contamination and Ecological Risk Assessment of heavy metals in Urban Agricultural soils of Fez city, Morocco - N.ZERRARI, N. RAIS & M. IJJAALI.

47) Apport de l'analyse des corps sédimentaires pour la compréhension de la genèse et de l'évolution morpho-sédimentaire des milieux côtiers du littoral du NE du Maroc - Kada Rahma & Zoulikha Irzi.

48) Factors affecting the mineral carbonation of carbon dioxide - A. KHARCHAFI, A. ABABOU, A. KHERBECHE.

Friday, November 15, 2019

09:30- 12: 00 Plenary Conferences (Chair : Pr. Lahcen Benaabidate) (Amphitheatre J) - 45min/keynote.

- Dr. Jean Denis Taupin, HDR : Géochimiste isotopique dans le cycle de l'eau, thèmes principaux hydrogéologie, (paléo) climatologie.
- Prof. GHARIBI Elkhadir : Indice de Qualité de l'Eau (IQE) : Quantification de la Qualité de l'eau Application aux Eaux embouteillées au Maroc.
- Prof. Faissal Aziz: Treated wastewater reuse enhancement through the promotion of smart irrigation systems in the mena region using biopolymers.

12:00 -13:00 Coffee Break (Bloc des professeurs)

14:30- 15:30 Lunch (Bloc des professeurs)

15:30- 18:30 Session III (Bloc de Recherche ; at the second floor) - 12min/conference.

Parallel session

Poster (Bloc de Recherche ; at the second floor)

Room	Room 1	Room 2	Room 3
Session III	SIII.1. Renewable Energies and Materials	SIII.2. Water	SIII.3 Biodiversity and sustainable development
Chairs	Pr. Faissal Aziz	Pr. Shehede Jodeh	Pr. Zoulikha Irzi

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15: 30- 18:30 Room 1 **SIII.1. Renewable Energies and Materials**
Chair : Pr. Faissal Aziz

- 49) Extraction of drugs residuals from aqueous solution using nanocellulose adsorbents- YASMIN THAHER, SHEHDEH JODEH2 & OTHMAN HAMED.
- 50) Valuation of methanol extracts from pomegranate bark (Soxhlet, Maceration): Comparative study and research into the microbiological activity - A. MARSOUL; A. BOUKIR; M. IJJAALI.
- 51) Valorisation des grignons d'olive, étude et application : Fabrication du charbon actif - Imad Alouiz, Houssam Ouazzane, Mohamed Yassine Amarouch, Driss Mazouzi.
- 52) Adsorption of cationic dye from aqueous solution with carboxymethyl cellulose-based hydrogel beads: optimization using RSM and reusability study - D. ALLOUSS, Y. ESSAMLALI, O. AMADINE, A. CHAKIR & M. ZAHOUILY.
- 53) Starch/polyacrylamide/graphene oxide bionanocomposite matrix for slow-release of nPK fertilizer - A. MOUSSEMA NZENGUET, Y. ESSAMLALI, M. ZAHOUILY.
- 54) l'effet de Cu²⁺ bipyrazol sur l'inhibition de la corrosion - A. RADI, B. EL MAHI, A. AOUNITI, M. KADDOURI, A. ZERROUK. M.EI MASSOUDI, S. RADI.
- 55) Liquid-solid extraction of heavy metals (Pb (II), Cu (II), and Cd (II)) by organic material based on pyrazole - I. HAJJI, Y. KADDOURI, M. EL KODADI, A. BOULOUIZ, B. HAMMOUTI, R. TOUZANI.
- 56) Etude expérimentale des extraits de plantes comme inhibiteurs naturels de corrosion pour l'acier doux en milieu acide HCL 0,1 M - M.ELBASTRIQUI, K.HABOUBI, B.HAMMOUTI.
- 57) Proposal for a method for analysis of micropoplastics in sludge of WWTPS - AYDA SAKALI, DOLORES COELLO, JOSÉ MARÍA QUIROGA, JUANA ARELLANO. GEMMA ALBENDIN. JAMAL BRIGUI, & ROCIO RODRÍGUEZ-BARROSO.
- 58) Natural and activated cedar sawdust for pollutants treatment in aqueous-phase - BENCHEQROUN, M. NAWDALI, H. ZAITAN.
- 59) Comparative analysis for the corrosion susceptibility of brass and DZR in tap water at different temperatures- F. HAMOUCHE, Y. HASSANI, Y. BAYMOU, M.OUAKKI & M. EBN TOUHAMI
- 60) Treatment of olive mill effluents by coagulation–flocculation using aluminium sulfate an lime- A.ELABDOUNI, K.HABOUBI, MOHAMED SALAH DINE ELYOUBI

15: 30- 18:30 Room 2 **SIII.2. Water**
Chair: Pr. Shehdeh Jodeh

- 61) Evaluation of the nitric pollution of groundwater in the coastal zone of BENSILIMANE – BOUZNIKA - H. SEHLAOU, R. HASSIKOU, A. ZOUAHRI, A. DOUAIK, R. MOUSSADEK. H. IAAICH, A. GHANIMI, H. DAKAK.
- 62) La gestion intégrée des ressources en eau au Maroc: Apports et limites - AJRAR AICHA
- 63) Removal of Congo red dye from water using environmentally material Zn-layered double hydroxides- A. EL KHANCHAOU, M. SAJJEDDINE, M. MANSORI & A. ESSOUMHI.
- 64) Analyse des sédiments en suspension à différentes échelles de temps, bassin hydrographique de L'OUED BELLAH (NORD-CENTRE DE L'ALGERIE)- A. BALLAH, M. ACHITE, A. TALEB, N. MAZIGH.
- 65) Flash flood hazard diagnosis based on geomorphology, hydrology and GIS techniques (CASE STUDY OF KERT BASIN, MOROCCO) - I.BOUTAHRI, L. BAGHAZI, R. ELMORABET & T. BOUMEAZA.
- 66) Comparative study of the effect of the addition of wastewater on the mobility of the two herbicides (fusilade and derby) in soil conducted in direct seeding and conventional seeding under laboratory conditions- H. MAHER, A. GHANIMI, A. ZOUAHRI, A. DOUAIK, H. DAKKAK, F. ELARNABI, R. MOUSSADEK.
- 67) Anaerobic-aerobic treatment of olive oil mill wastewater followed by coagulation flocculation S.KHATTABI RIFI1*, S.SOUABI1, M.HAFIDI2, A.TALEB1
- 68) Removal of lead (II) from water using polystyrene trisamine dithiocarbamate- E. MAKHARZEH, F. REMAWI, I. ODEHR, S. JODEH, G. HANBALI.
- 69) Contribution to the evaluation of the physico-chemical quality of the superficial waters of the OUED ZEGZEL (MOROCCAN NORTHEAST) - S. FADLAOUI, M. BOUTERFAS, O. EL ASRI, H. EL HALOUANI, M. MELHAOUI.

15: 30- 18:30 Room 3 **Session III.3: Biodiversity and sustainable development**
Chairs: Pr. Zoulikha Irzi

- 70) Impact of anthropogenic disturbances on cyanobacteria diversity in urban soils of Marrakesh area (MOROCCO) - Z. Hakkoum, F. Minaoui, M. Douma, Kh. Mouhri & M. Loudiki.
- 71) Caractérisation et diversité des ripisylves sur substrat ultramafique de la région de Beni Bouzra et des zones adjacentes (COTE DE GHOMARA, NORD DU MAROC) - A.KHAMLICI, A. EL GHALABZOURI & M. ATER.
- 72) Etude globale sur Aristolochia Longa : Détermination de l'activité antioxydant, antibactérienne, évaluation de la toxicité aiguë et réalisation d'un screening photochimique - FATIMA ZAHRA BENADDI, MERYM BELLAHMAR.

73) Abundance and biodiversity of horse mackerel from waters of the Algerian western coast- M. GHERRAM; A. BENSALHA TALET; F. BENSAAIDA; F. DALOUCHE; M. EL AMINE ABI AYAD.

74) Effects of Temperature Fluctuation in VOO Oxidation Quality and Shelf-life – Z. Ayyad, E. Valli, A. Bendini, R. Accorsi, R. Manzini, T. Gallina Toschi, M. Hmidat; N. Abu-Khalaf.

75) Utilisation de l'algue *Ulva lactuca* comme espèce bioindicatrice de la pollution métallique du littoral de la ville de Safi (MAROC)- HASNI M., BOUNDIR Y., RAFIQ F., ACHTAK H. et CHEGGOUR M., CHERIFI O, YACOUBI B.

76) First sources of resistance in faba bean to the stem borer weevil, *LIXUS ALGIRUSL* - N. AIT TAADAOUIT, K. EL FAKHOURI, A. SABRAOUI, L. ROHI, F. MAALOUF, AND M. EL BOUHSSINI.

77) A study of environmental management within the organizations of eastern Morocco - A. OMARI*, A. CHAFI.

78) Effectiveness of stb resistance genes against Moroccan isolates of *Septoria tritici* - S. LOURIKI, M. AL JABOUBI, A. AMRI, A. DOUIRA, S. REHMAN.

79) Reconstitution de la végétation et du climat de la région d'Ifrane- Khenifra (moyen atlas, Maroc) au cours de l'holocène supérieure et récent - H. BENJILANI, B.DAMNATI & H.SLIMANI.

18 :30 Room 3	Closing Ceremony (Distribution all the certifications)
21 :00	Gala Diner

Conference General Schema

Thursday, November 14, 2019 - Morning	
09:00 – 10 :00	Welcome and Registration (Amphitheatre J)
10 :00- 11 :00	Opening Ceremony (Amphitheatre J)
11 :00- 12 :30	Plenary Conferences (Chairs : Kamal Abrkani/ Khadija Haboubi)

Thursday, November 14, 2019 - Afternoon			
13:30 - 16:00	Session I (Bloc de Recherche ; at the second floor)		
13:30 - 16:00	Parallel Sessions I		
Room	Room 1	Room 2	Room 3
Session	S1.1 Solide and Waste	S1.2 Water	S1.3 Biodiversity and sustainable development
Chairs	Pr. Salah Eddin Samri	Pr. Faissal Aziz	Pr. Said Mourad

Thursday, November 14 2019 - Afternoon			
16:30 – 18:30	Sessions II (Bloc de Recherche ; at the second floor)		
	Parallel Sessions II		
Room	Room 1	Room 2	Room 3
SESSION II	SII.1 Climate change	SII.2 Water	SII.3 Air and Soil
Chairs	Pr. Jalal Isaad	Pr. Ahmed Zian	Pr. Shehdeh Jodeh

Friday 15, 2019 November- Morning	
09:30- 12: 00	Plenary Conferences (Chair : Pr. Lahcen Benaabidate) (Amphitheatre J or K)

Friday 15, 2019 November- Afternoon			
15:30- 18:30	Parallel Sessions III (Bloc de Recherche ; at the second floor)		
Room	Room 1	Room 2	Room 3
Session III	SIII.1. Renewable Energies and Materials	SIII.2. Water	SIII.3 Biodiversity and sustainable development
Chairs	Pr. Faissal Aziz	Pr. Shehdeh Jodeh	Pr. Zoulikha Irzi
18 :30	Closing Ceremony		
21 :00	Gala Diner		

Coordinators of the Congress:

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En collaboration avec :

Equipe de Recherche en Biologie et Biotechnologie Appliquées – FPN

&

Equipe de Recherche en Sciences de Matériaux, Energie et Environnement – ENSAH