



# The First International Seminar on Water, Energy and Environment -ISWEE'11-

Algiers, March 1-2, 2011



## Program

March 1<sup>st</sup>, 2011

Al Kheima, Safir Hotel

08:00 – 08:30	Registration
	Opening ceremony
08:30 – 09:00	NASR Director : Prof. Hafid Aourag CDER Director : Dr. Maiouf Belhamel ISWEE'11 Chairwoman : Dr. Nachida Kasbadji Merzouk ISWEE'11 Organizing Committee Chairman : Dr. Hacene Mahmoudi
	Keynotes
09:00 – 09:30	<b>Panorama des enjeux à 2030 de l'eau et de l'énergie à l'échelle du Monde. Plaidoyer pour une stratégie énergétique de l'Algérie pour 2030</b> Prof. Chems Eddine Chitour, ( Ecole Nationale Polytechnique, Algeria).
09:30 – 10:00	<b>The desalination community and development indicators.</b> Prof. Miriam Balaban, (European Desalination Society, Italy)
10:00 – 10:15	<b>Discussion</b>
10:15 – 10:45	<b>Coffee break</b>

	<p><i>Chairman : Dr Maiouf Belhamel</i>  <i>Co-Chair : Dr. Nachida Kasbadji Merzouk</i></p>
10:45 – 11:15	<p><b>Energy and climate change – Implications, challenges and opportunities for water and wastewater treatment technologies and research</b>  Prof. Roya Sheikholeslami (University of Edinberg, UK)</p>
11:15 – 11:45	<p><b>Inorganic membrane reactors for energy applications</b>  Prof. Miguel Menéndez (University of Zaragoza, Spain)</p>
11:45 – 12:00	<p><b>Discussion</b></p>
12:00 – 13:00	<p><b>Poster Session</b>  from EG1 to EG37 and from W1 to W69</p>
13:00 – 14:30	<p><b>Lunch</b></p>
	<p><i>Chairman : Prof. Ahmed Kettab</i>  <i>Co-Chair : Dr. Abderhmane Belkaid</i></p>
14:30 – 15:00	<p><b>The cost of desalination</b>  Dr. Norredine Ghaffour, (King Abdullah University of Sciences and Technology KAUST, KSA)</p>
15:00 – 15:30	<p><b>Water Scarcity &amp; Drought in WANA countries</b>  Dr. Jauad El Kharraz, (SEMIDE, France)</p>
15:30 – 15:45	<p><b>Assurance des Risques Energie</b>  Mr Laziz Ait Ali Braham, (CASH Insurance, Marketing and network Manager)</p>
15:45 – 16:00	<p><b>Discussion</b></p>
16:00 – 16:30	<p><b>Coffee break</b></p>
	<p><i>Chairman : Dr. Ahmed Chikouche</i>  <i>Co-Chair : Prof. Hocine Ben Moussa</i></p>
16:30 – 17:00	<p><b>Les ressources en eau en Algérie: Stratégies, Solutions, Perspectives, Enjeux, Défis et Compétences, pour un développement durable</b>  Prof. Ahmed Kettab ( Ecole Nationale Polytechnique, Algeria)</p>
17:00 – 17:30	<p><b>Solar Energy: From R&amp;D to Demonstration and Deployment</b>  Dr. Mahieddine Emziane (Masdar Institute of Science and Technology, UAE)</p>
17:30 – 17:45	<p><b>Discussion</b></p>
17:45 – 18:45	<p><b>Poster Session 2</b>  (From E1 to E109)</p>

March 2<sup>nd</sup> 2011

ORAL PRESENTATIONS			
Room :	Topic : Water	Room :	Topic : Energy
<i>Chairman : Prof. Miriam Balaban Co-Chairs : Dr. Magda Amina Aziza</i>		<i>Chairman : Prof. Ali Aouabed Co-Chairs : Dr. Samira Chader</i>	
08:00 – 08:15	<b>Assessment of potable water quality produced by MSF and SWRO desalination processes</b> Y. Gacem, S. Taleb, S. Senadkji and N. Ghaffour		Système hybride de production d'eau et d'énergie utilisant les énergies renouvelables: cas du projet Open-Gain A. Sadi
08:15 – 08:30	<b>Nanofiltration: a promising technology for brackish water desalination in Morocco</b> H. Dach , A.Lhassani, J.Leparc and M.Hafsi		Economic study of nuclear seawater desalination for Mostaganem site A. Belkaid, S.A. Amzert , Y. Bouaichaoui and H. Chibane
08:30 – 09:45	<b>Contribution à l'étude des procédés inhibiteurs de l'entartrage : Procédés chimiques, procédés électrochimiques en présence de Ca(OH)<sub>2</sub>, Na<sub>2</sub>CO<sub>3</sub> et KH<sub>2</sub>PO<sub>4</sub></b> K.Labiod, S.Ghizellaoui, H.Semineras and Y. Bendaoud – Boulahlib		Use of the on/off mode for the regulation of a solar heating system pump F.Mokhtari, L. Loukerfi and M.Belhamel
08:45 – 09:00	<b>Novel adsorbent loaded micro-spheres for Arsenic removal in drinking water</b> A. Figoli, J. Hoinkis, A. Criscuoli, F. Gallo and E. Drioli		Data acquisition system for photovoltaic water pumping system in the desert of Tunisia A. Mahjoubi, R.Fethi Mechlouch and A. Ben Brahim
09:00 – 09:15	<b>A Role of additives in the casting solution in preparation of porous membranes</b> A. Ouradi, J.C. Jansen, F. Tasselli, S.Mimoune and A.Benaboura		Compressed Natural Gas: The new alternative fuel for the Algerian transportation sector F. Amrouche
09:15 – 09:30	<b>Cationic Dyes Removal Using Polymer Inclusion Membranes (PIMs)</b> S .Aitali, O. kebiche-Senhadji, L. Mansouri and M. Benamor		Thermo-optic behaviors modelization of a multiple effects solar still C. khelifi
09:30 – 09:45	<b>Sea water desalination (RO) as a wind powered process, technical and economical specifics</b> J. Kaufler, R.Pohl and H.Sader		The chemical investigating methods of concentration polarization in lectrodialysis ( plateau length and overlimiting current iov ) K.E Bouhidel, K.Oulmi and S. Benslimane
09:45 – 10:15	<b>Coffee break</b>		
	Room :	Topic : Water	Room :
	<i>Chairwoman : Prof. Safia Taleb Co-Chair : Dr. Ali Malek</i>		<i>Chairman : Prof. Roya Sheikholeslami Co-Chair : Dr. Nadjib Drouiche</i>
10:15 – 10:30	<b>Coagulation Flocculation test of Keddara's Water Dam Using Chitosan and Sulfate Aluminium</b> H. Zemmouri, Majda. A. A., N. Mameri and H. Lounici		Environmental Management and Sustainable Development M. F. A. Goosen
10:30 – 10:45	<b>Multivariate statistical evaluation of major and trace elements in groundwater of Ain Azel plain, Algeria</b> L. Belkhiri, A. Boudoukha and L. Mouni		Contribution du vent à la progression de l'ensablement dans les hauts plateaux Algériens M. Merzouk, S. Louassa and N. Kasbadji-Merzouk

10:45 – 11:00	<b>Unité de dessalement d'eau de mer par osmose inverse: améliorer son efficacité et réduire l'impact négatif de ses rejets sur l'ecosystème marin</b> A. Chouikhi	<b>Binary adsorption of basic dye and humic acid on inorganic-organic pillared clays: Equilibrium isotherm studies in single and mulicomponent system</b> F. Zermane, O.Bouras and B.Cheknane,
11:00 – 11:15	<b>Le dessalement de l'eau de mer dans la perspective d'une gestion integree et d'un developpement durable (Cas de la station de dessalement de Bousfer)</b> F Alaoui, M. Benyahia, M. Habi, L. Hamel and R. Djellouli	<b>Biological filtration on sand of dunes – Characterization of the san</b> Y. Touil, Y. Gherairi, S. Nefci, R. Issaadi and A. Amrane
11:15 – 11:30	<b>Feasibility study of exploitation of the "Biological desalination process" to desalinate seawater</b> S. Achacher, B. Mahmah, S. Chader, M. Belhamel and A. Malek	<b>Effect of heat treatment and by hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) on the physicochemical and rheological behavior of an activated sludge from a purification plant</b> L.Hammadi , A. Ponton and M. Belhadri
11:30 – 11:45	<b>Couplage de traitement électrochimique et membranaire appliqué aux eaux du lac de Reghaia</b> M.Taleb Ahmed, T.Chabbane, A.Darchen and R.Maachi	<b>Effectiveness of biological activated sludge treatment for removal of basic dyes from wastewater</b> O. Senhadji-Kebiche and K.E. Bouhidel
11:45 – 12:00	<b>Contribution à la caractérisation du sable de dune (Erg occidental) : Cas du sable de (Taghit) Algérie au profil de la filtration</b> A.. Maazouzi and A. Kettab	<b>Single and multicomponent equilibrium studies for the adsorption of basic dyes on pillared clay granules; effectt study and equilibrium modelling of data</b> B. Cheknane, M. Baudu, O. Bouras and J. P. B Basly
12:00 – 13:30	<b>Lunch</b>	
	<b>Room:</b>	<b>Topic : Water</b>
	Chairman : Dr. Matheus. F. A. Goosen Co-Chair : Dr. Norredine Ghaffour	
14:30 – 14:45	<b>Enhancement of textile waste water treatment process using nanofiltration</b> E. Ellouze, N. tahri, A. Jrad and R. Ben Amar	<b>Study of a sebkha: the sebkha d'oran (algerian west)</b> M. Kacem
14:45 – 15:00	<b>Simulation of proton exchange and water transport in the membrane of PEM fuel cell</b> B. Dokkar, N. Settou, O. Imine, B. Negrou, N. Saifia and N Chennouf.	<b>Contrats de Performance Environnementale (CPE), norme ISO 14001 et performance environnementale : analyse critique</b> M.A.M Khelladi
15:00 – 15:15	<b>Membrane bioreactor (MBR) technology – A promising approach for industrial water reuse</b> J. Hoinkis, S.A. Deowan, A. Figoli, R.R. Huang and E. Drioli	<b>Elimination d'un anti-inflammatoire par une argile anionique de synthèse cas du Diclofenac</b> R. Khatem, A. Bakhti, H. Zaidi, N.Sayah and M. Larid
15:15 – 15:30	<b>Sol-gel preparation of ZnO films with extremely preferred orientation along (002) plane</b> L. Salmi, S. Boudjadar and L. Guerbous	<b>Remote Sensing Techniques for Salt Affected Soil Mapping (Application to the Oran region, Algeria)</b> A. Dehni and M. Lounis
15:30 – 15:45	<b>Modelisation d'une colonne de demineralisation De l'eau</b> D.Imessaoudene, S.Hanini and C.Simoussa	<b>Detection of tropospheric ozone in algiers utilizing tobacco plant, two years study</b> T. Lakki, B. Nadjemi, R. Kerbachi, M. Boudjeniba, N. Zouaghi and M. Nasri

15:45 – 16:00	<b>Chloromethylation of metaxylene by phase transfer catalysis – Application to the water treatment</b> N. Nasrallah, M. Trari, A. Amrane and R. Maachi	<b>Geochemical Evolution of Groundwater in Mengxu-Guiping City</b> S. Younes		
16:00 – 16:15	<b>Water resources management and sustainable development in Sudan</b> A. Mustafa Omer	<b>Mesure des performances du traitement des eaux usées urbaines par lagunages à microphytes et à macrophytes en zone sahélienne : exemple de la station pilote de l'université de Niamey – Niger</b> T. Idder , M. S Laouali , M. Seid and A. Idder		
16 :15- 16 :30	<b>Analyse spatiale des tendances pluviométriques récentes de la région de Souk-Ahras, Algérie</b> D. Mrad, S. Daira and Y. Djebbar	<b>Changement climatique mondial en relation avec les variations climatiques locales (impact sur les ressources hydrique dans la plaine de sidi bel abbes)</b> R. Djellouli A. Bouanani, F. Alaoui and L. Hamel		
16:30- 17:00	<b>Coffee break</b>			
	<b>Room :</b>	<b>Topic : Energy</b>	<b>Room :</b>	<b>Topic : Environment</b>
	<i>Chairman : Dr. Mustapha Merzouk Co-Chair : Dr. Kacem Moussa</i>		<i>Chairman: Prof. Wahib Naceur Co-Chair : Mr Abdelkrim Sadi</i>	
17:00 – 17:15	<b>Current status of concentrator photovoltaics (CPV) technology: field-performance of CPV modules implemented around the world</b> A. Mokri and M. Emziane	<b>Removal of copper from cable factory effluent by coupling electroflootation and indirect electro-oxidation processes</b> T. Chaabane , A. Darchen, M. Taleb Ahmed and R. Maachi		
17:15 – 17:30	<b>Solar thermal power tower plant: transfer of technology from Jülich to Bourkika (W. of Tipasa)</b> A. Khedim	<b>Synthese et caracterisation des polyoxometallates à base de tungstene application à l'adsorption du bleu de méthylène</b> S. Kouraichi M. Abbessi , R. Belghiche and A. Balaska		
17:30 – 17:45	<b>Conception d'un Photoréacteur Solaire pour la Dégradation d'un Effluent Récalcitrant</b> S. Bouafia-Chergui, R. Alloune and M. Chergui	<b>Removal of Hexavalent Chromium from Aqueous Phase by Adsorption Using Peanut Skin in Fixed bed: Experimental Study</b> M. Chabani, M. Kebir, Y. Ait Ouassa., A. Amrane and A. Bensmaili		
	<b>Keynote</b>			
	<i>Chairman : Dr. Jan Hoinkis Co-Chair : Dr. Omar Cheknane</i>			
17:45 – 18:15	<b>Etat et perspectives des Energies Renouvelables en Algérie</b> Dr. Nachida Kasbadji Merzouk			
18:15 – 19 :00	<b>Closing Ceremony</b>			
20:30 – 22:30	<b>Gala Dinner</b>			