





# المؤتمر العلمي الدولي الرابع للبيئة والتنمية المستدامة

Fourth International Scientific Conference on Environment and Sustainable Development (4<sup>th</sup> ISCESD)

## الجمعة الموافق 2018/11/23

9:00-7:00 مساءً التسجيل واستلام مستلزمات المؤتمر للوفود المشاركة

#### اليوم الأول السبت 2018/11/24

9:35 السلام الجمهوري (جمهورية مصر العربية وجمهورية العراق) قي السلام الجمهوري (جمهورية مصر العربية وجمهورية العراق) قي العربيم و العربيم العربيم قريبة وجمهورية العراق) قي العربيم و العر	الوقت -9:00 -9:30 -9:35 -9:40
9:30 استقبال وتسجيل الضيوف السقبال وتسجيل الضيوف السقبال وتسجيل الضيوف السلام الجمهوري (جمهورية مصر العربية وجمهورية العراق) السلام الجمهوري (جمهورية مصر العربية وجمهورية العراق) المسلام الكريم الكريم الكريم الكريم الكريم الكريم الكريم المسلمان الم	5-9:30 -9:35 5-9:40
9:35 السلام الجمهوري (جمهورية مصر العربية وجمهورية العراق)	-9:35 5-9:40
9:40 تلاوة من القرآن الكريم	5-9:40
9:45 كلمة ترحيبية لرئيس اللجنة التحضيرية للمؤتمر، الأستاذ الدكتور عبد الحميد محمد جواد	
9:55 كلمة الأستاذ الدكتور أمين دواي ثامر، رئيس الجامعة التكنولوجية	<b>-9:45</b>
10:00 كلمة الدكتور أشرف عبد العزيز، الأمين العام للاتحاد العربي للتنمية المستدامة والبيئة	)-9:55
-10:30 كلمات الوفود المشاركة من جمهورية مصر العربية	10:00
الجلسة الافتتاحية	
لجلسة: أد. شاكر أحمد صالح رئيس اللجنة العلمية للمؤتمر	رئيس ا
جلسة: أ د. فكرت مجيد حسن	مقرر الـ
Development of Iraq's Environment, Challenges and Solutions: Marshes 11:30-	10:30
Restoration Example	
الأستاذ الدكتور بهرام خضر مولود الأستاذ الدكتور نجاح عبود حسين	
لعمل: الإدارة البيئية المتكاملة للموارد المائية في العراق	
ورشة: الأستاذ الدكتور رياض حسن الانباري رئيس لجنة المؤسسات الساندة والداعمة للمؤتمر	
-12:30 الأستاذ الدكتور حسين العطفي-الأمين العام للمجلس العربي للمياه ووزير الموارد المائية والري	11:30
الأسبق في جمهورية مصر العربية	
الأستاذ الدكتور علي عبد الزهرة اللامي	
هيئة المستشارين مكتب دولة رئيس الوزراء في جمهورية العراق	
The state of the s	
-1:00 توزيع الشهادات التقديرية	12:30
3:00 وجبة الغداء	)-1:00

الجلسات العلمية		
	الجلسة الأولى 2018/11/24	
قاعة رقم 1	تاذ الدكتور طارق عبد الله الجمال اذ الدكتور أحمد نجم عبد Sustainable Planting Design in Landscape Architecture	رئيس الجلسة: الأس
	اذ الدكتور أحمد نجم عبد	مقرر الجلسة: الأست
ESD 14: Criteria For S Projects Under Arid C		3:10-3:00
Trojects Onder Aria C	Conditions	
King Abdulaziz Univ	Abdullah M. Farid Ghaza rersity, Faculty of Environmental Design, Landscape Architecture Department, Jeddah, Saudi Arabia	
	of fly ash and nano silica as a sustainable materials on the	3:20-3:10
permeability propertie	es of self – compacting concrete	
	Al-Goody <sup>1</sup> , Esra M. Güneyisi <sup>2</sup> , Süleyman İpeka <sup>2</sup>	
	Civil Engineering University of Technology, Baghdad, Iraq il Engineering, Gaziantep University, 27310 Gaziantep, Turkey	
	of Chitason-Silica Nanocomposite for Removal of Methyle	3:30-3:20
	haracterization and Adsorption Performance	
Mohamme	d I. Mohammed <sup>1</sup> , Mustaf K. Ismaiel <sup>2</sup> , Mohmet Gonen <sup>1</sup>	
	Department, Faculty of Engineering, Suleyman Demirel University,	
<sup>2</sup> Institute of Technology	Isparta, Turkey Mechanical Techniques, Middle Technical University, Baghdad, Iraq	
	e Local Heritage and its Role in Sustainable Spatial	3:40-3:30
	t Market in Al-Najaf –Case Study	
W	Vahda Sh. Al-Hinkawi, Baneen A. Al-Saadawi	
Department of	of Architecture, University of Technology, Baghdad, Iraq	
	cic Sustainability and Mitigation of Shallow Groundwater	3:50-3:40
Aquiters against High	Saline Levels and Chemical pollutants	
	nuri, Arkan R Ali, Abdulhadi M. Al-Sa'adi, Mohammed K. Abed	
	Gurat Al Awsat, Technical University, Kufa, Iraq of Mosul Dam Reservoir Operation for Irrigation and	4:00-3:50
Hydropower Generation	*	
	Taymoor A. Awchi and Baraa Jebbo	
ESD A: Towards Aco	quiring the Environmental Skills and Trends Required to	4:10-4:00
Achieve Environmenta	• •	
	Haider M.H. AL-Zerkani	
	College of Engineering, University of Kut	
	nitation Services in the Outskirts of Baghdad and Its	4:20-4:10
Environmental Impact	is	
	R. Al-Obaidi <sup>1*</sup> , Sara D. Zangana <sup>2</sup> , Saja H. Salim <sup>3</sup>	
General Directorate	e of Sewerage, Ministry of Construction and Housing and Public Municipalities, Baghdad, Iraq	
	ctorate, Ministry of Health and Environment, Baghdad, Iraq.	
<sup>3</sup> Department of Works	and Maintenance, Ministry of Construction and Housing and Public Municipalities, Baghdad, Iraq	
	استراحة	6:00-4:200
	جولة حرة	10:00-6:00

	الجلسة الثانية 2018/11/24	
قاعة رقم 2	تاذ الدكتور فكرت مجيد حسن	
	ناذ الدكتور قاسم حميد جلعوط	مقرر الجلسة: الأسن
ESD 12: Distribution Al-Arab Area	of Total Mercury in the Water and Sediments of the Shatt	3:10-3:00
	Abdalhussein A. Khwedem Marine Science Centre, Basrah University	
ESD 70: Trace Eleme	ents Geochemistry in the Iraqi Marine Sediments	3:20-3:10
	Mohanad H. Al-Jaberi	
	partment, College of Science, Basrah University, Basra, Iraq e Self-Purification of the Shatt Al-Arab Rivers System using	3:30-3:20
Simulation Models	t Sen-1 urineation of the Shatt M-Mas Rivers System using	3.30-3.20
AT Muston	Ali Dh. Abed	
	siriyah University, Faculty of Engineering, Baghdad, Iraq	2,40,2,20
Plain (North of Iraq)	of Water Balance for Erbil City in the Central Basin of Erbil	3:40-3:30
<sup>1</sup> Department of G	<sup>1</sup> , Tariq A. Hussain <sup>2</sup> , Muayad M Ismail <sup>2</sup> , Faaeza A. Abd-Ulkareem <sup>2</sup> deology, College of Science, Baghdad University, Baghdad, Iraq ering Department, University of Technology, Baghdad, Iraq	
	e, Diversity and Distribution of Zooplankton in the Tigris	3:50-3:40
River Northern of Ba		3.30-3.40
Shaker	G. Ajeel <sup>1</sup> , Mohammad F. Abbas, Dawood S. Abdullah	
	arine Biology, Marine Science Centre, University of Basrah, Iraq	
ESD 35: Geochemica Shatt Al-Basrah, Irac	l Evolution of Heavy Metals (Cd, Cr, Fe, Mn) in Sediment of	4:00-3:50
	Shahed R. Zaki <sup>2</sup> , Jinnan Sh. Al Hassany <sup>2</sup> , Abdul Hameed M.J. Al-Obaidy <sup>1</sup> , Eman. S. Awad <sup>1</sup> , Afrah A. Maktoof <sup>3</sup>	
<sup>2</sup> Department of biology	al Research Center, University of Technology, Baghdad, Iraq y, College of Science for Women, Baghdad University, Baghdad, Iraq Department, Science Collage, University of Thi-Qar, Iraq	
	als Content in Several Imported Rice Crops (Oryza sativa)	4:10-4:00
from the Local Mark		
Environment	Faraj, Sedik A.K. Al-Hiyaly, Athmar A.M. Al-Mashhady Research Center, University of Technology, Baghdad, Iraq	
	of some Heavy Metals in Water and Sediment of Main out iriyia City by using Environmental Indices	4:20-4:10
Afrah A. Maktoof <sup>1</sup> , Za	hraa Z. AL-Janabi <sup>2</sup> , Sana T. Jaweed <sup>3</sup> , Basim Y. Al-Kafaji <sup>1</sup> , Majida G. Maktoof <sup>1</sup>	
	Department, Science Collage, Thi-Qar University, Iraq	
	al Research Center, University of Technology, Baghdad, Iraq	
- biology Departmer	nt, Faculty of Education for pure sciences, Thi-Qar University, Iraq	6:00-4:20
	المسرات جولة حرة	10:00-6:00

قاعة رقم 3	الجلسة الثالثة 2018/11/24	
	تاذ الدكتورة دعد محمد فؤاد	
	ناذ الدكتور خالد محمد حسين	مقرر الجلسة: الأسن
ESD 5: Biofilm Inhibito Pathogenic Microorgan	ory Potential of Westiellopsis prolifica Extract Against some nisms	3:10-3:00
	Heikmat <sup>1</sup> , Ghaidaa Husain, Shurooq Latif, Nada Zaki Dept., College of Science- Mustansiriyah University	
	rinting of the Carangid Fish Species from the Iraqi Marine	3:20-3:10
Abbas J. Al-	Faisal, Abdul-Razak M. Mohamed and Talib A. Jaayid	
	l from Produced Water of North Rumaila Oilfield by lation-Flocculation and Microfiltration Technique	3:30-3:20
Thamer J	. Mohammed <sup>1</sup> , Eman Sh. Awad <sup>2</sup> , Thabit A. Ahmed <sup>3</sup>	
<sup>2</sup> Environme	ngineering Department, University of Technology, Iraq ental Research Center, University of Technology, Iraq	
	desearch and Development Center, Ministry of Oil, Iraq	40.000
ESD 21: Nitric Oxide Cementitious Materials	e Reduction by Using the Micro forms of TiO <sub>2</sub> with	3:40-3:30
	Hussein, Riyad H. Al-Anbari and Maan S. Hassan	
	eering Dept., University of Technology, Baghdad, Iraq	3:50-3:40
Method	f Crude Oil Spills in Water Resources by Using Biological	3:30-3:40
<sup>1</sup> Collage	Abdulrazzak <sup>1</sup> , Mohammed H. Hafiz <sup>1</sup> , Ali N Ibrahim <sup>2</sup> of Engineering, Aliraqia University, Baghdad, Iraq	
	ulting Bureau, Aliraqia University, Baghdad, Iraq	4.00.2.50
	of Water Treatment Residue as a Sorption Medium and Phosphate Level in Water	4:00-3:50
	od M. Barbooti, Shaymaa S. Hasan, Mustafa Jassim Applied Science, University of Technology, Baghdad, Iraq	
	Biosorption and Recovery of Zn, Cr and Ni Ions from	4:10-4:00
Industrial Wastewater Calcium Alginate	Using Beads of Banana Peel Powder Constrained by	
	ufyan M. Shartooh <sup>1</sup> , Sedik A K. Al-Hiyaly <sup>2</sup> logy, College of Science, Al-Anbar University, Al-Anbar, Iraq	
	Research Center, University of Technology, Baghdad, Iraq	
Rejuvenated Spent Nin	Lead (II) Ion from Aqueous Solution by Adsorption on no/Al <sub>2</sub> O <sub>3</sub> Hydrodesulphurization Catalyst as a Sustainable	4:20-4:10
Method		
	n H. Hassan, Amir F. Dawood, Aseel J. Ahmed mistry, College of Science, University of Diyala, Diyala, Iraq	
.,	استراحة	6:00-4:20
	جولة حرة	10:00-6:00

الجلسة الرابعة 2018/11/24	to the same
ناذ الدكتور محمد جاسم كاظم اذ المساعد الدكتور امزاحم عبد الكريم علوان	رئيس الجلسه: الاسن مقرر الجلسة: الأست
ESD 24: Thermodynamic and Kinetic Investigation of Desalination by	3:10-3:00
Refrigerant Clathrate Hydrate Formation	
Shurooq T. ALHemeri, Riyadh S. ALMukhtar, Lina W. Mahmood	
Department of Chemical Engineering, University of Technology, Baghdad, Iraq  ESD 26: Mechanical Properties of Cement Mortar Made With Black Tea Waste	3:20-3:10
Ash as a Partial Replacement of Cement	0.20 0.10
Mohammed S. Nasr, Zaid A. Hasan, Mohammed K. Abed	
Babylon Technical Institute, Al-Furat Al-Awsat Technical University, Babylon, Iraq	
ESD 59: Response of Bread Wheat to Abscisic Acid under Water Stress	3:30-3:20
Shetha A. Ahmad <sup>1</sup> , E. K. Hashim <sup>1</sup> , Ahmed S.A. Al-Taie <sup>2</sup>	
<sup>1</sup> Agric. Research Office, Ministry of Agriculture, Baghdad, Iraq	
<sup>2</sup> Environmental Research Center, University of Technology, Baghdad, Iraq  ESD 60: Behavior of Recycled Aggregate Fibrous Reinforced Beams Under	3:40-3:30
Flexural and Shear Loading	
Eyad K. Sayhood, Ali Sadiq, Farah L. Raoof	
Civil Engineering Department, University of Technology, Baghdad, Iraq	
ESD 66: Environmental Impact Assessment of Halfaya Oilfield Project	3:50-3:40
Amin D. Thamir <sup>1</sup> , Souzan H. lafta <sup>2</sup> , Faras Q. Mohammed <sup>3</sup> , Mahdi M. Hanon <sup>1</sup> .	
<sup>1</sup> Department of Production Engineering and Metallurgy, University of Technology, Baghdad <sup>2</sup> Iraqi National Oil Company (NOC), Maysan Oil Company, Maysan, Iraq	
<sup>3</sup> Nanotechnology and Advanced Material Research Center, University of Technology,	
Baghdad, Iraq ESD 127: Diclofenac Removal from Wastewater by Iraqi Pillared Clay	4:00-3:50
ESD 127. Dictorenac Removal from Wastewater by fraqi i mareu Ciay	4.00-3.30
Faris H. AL Ani, Ghayda, Y. AL-Kindi, Noor, Kh. Al-Bidri Civil Engineering Dept., , University of Technology, Baghdad, Iraq	
ESD 120: Sealing of Thermal Plasma Spray Coatings by Electrophorese	4:10-4:00
Deposition	
Mohammed Jasim, Sami Ibrahim & Hussein Ali Hussein	
Production Engineering and Metallurgy Dept., University of Technology, Baghdad, Iraq	
ESD 170: Nature Reserves and Their Role in Mitigating the Impact of Climate Change Natural Solutions	4:20-4:10
Ameera K. Lafta Sedik A.K. Al-Hiyaly	
Environmental Research Center, University of Technology	
استراحة جولة حرة	6:00-4:20 10:00-6:00
ېولت در ه	10:00-0:00

## اليوم الثاني الاحد 2018/11/25

الجلسات العلمية الصباحية الجلسات العلمية الصباحية الجلسة الصباحية الأولى 2018/11/25 قاعة رقم 1 قاعة رقم 1	
1 - 3 - 4 - 1 3	
ستاذ الدكتورة شهلاء إسماعيل ابراهيم	رئيس الجلسة: الأه
ستاذ الدكتورة شهلاء إسماعيل ابراهيم ستاذ المساعد الدكتور صالح عبد الرضا الصالح	مقرر الجلسة: الأس
ESD 41: Predictive Modeling of Multilayer Graphene Growth by Chemical Vapour Deposition on Co-Ni/Al <sub>2</sub> O <sub>3</sub> Substrate using Artificial Neural Network	
May A. Muslim <sup>1</sup> , Zainab Y. Mohamed <sup>1</sup> , Abdel Rahman Abdel Ghany <sup>1</sup> , Bamidele Victor Ayodele	9:15-9:00
<sup>1</sup> Department of Chemical Engineering, University of Technology, Baghdad, Iraq, <sup>2</sup> Faculty of Chemical and Natural Resources Engineering, Universiti Malaysia Pahang,  Lebuhraya Tun Razak, 26300 Gambang-Kuantan, Malaysia	
ESD 44: Dynamic Study of Acid Gas Absorption Using Promoted Absorbent in	
Bubble Column Reactor	9:30-9:15
Safa A. Al-Naimi, Farah T. Jasim, Ahmed N. Kokaz Department of Chemical Engineering, University of Technology Baghdad, Baghdad, Iraq	9:30-9:13
ESD 50: Textile Dye Removal by Activated Date Seeds	
Seroor A. Kh. Ali <sup>1</sup> , Huda T. Hamad <sup>2</sup> <sup>1</sup> Environmental Engineering Dpt., College of Engineering, Al Mustansiriyah University, <sup>2</sup> Water Resource Engineering Dpt., College of Engineering, Al Mustansiriyah University	9:45-9:30
ESD 123: Removal of Phenol and Contaminants from Wastewater of a Petroleum	
Refinery by Ion Exchange	10:00-9:45
Najwa S. Majeed, Samira N. Abdullah Chemical Engineering Dept., College of Engineering, University of Baghdad, Baghdad, Iraq	10:00-9:45
ESD 148: Effects of Bio-Fertilizers Types on Yield, Yield Components of Three	
Varieties of Oat (Avena sativa L.)	10:15-10:00
L.M. Al-Freeh, K.H. Huthily, S.A. Alabdulla  ESD 151: Application of Wheat Husk in Color Removal of Textile Wastewater	
ESD 151: Application of wheat flusk in Color Removal of Textile wastewater	
Mohamed L. Mohamed <sup>1</sup> , Annam A. Sabri <sup>2</sup> , Eman J. Taha <sup>2</sup> <sup>1</sup> Faculty of Engineering, Chemical Engineering Department, Suleyman Demirel University,  Isparta, Turkey <sup>2</sup> Chemical Engineering Department, University of Technology, Baghdad, Iraq	10:30-10:15
ESD 154: Modification of Zeolite by Magnetic Nanoparticles for Organic Dye	
Removal	10:45-10:30
Zaianb Majid, Adnan A. AbdulRazak, Walla Abdul Hadi <sup>1</sup>	10:45-10:50
Department of Chemical Engineering, University of Technology, Baghdad, Iraq ESD 155: Study Air Pollution Effects in Some Plant Leaves Morphological and	
Anatomical Characteristics in Baghdad City, Iraq	
Abdul Hameed. M.J. Al-Obaidy <sup>1</sup> , Israa M. Jasim <sup>2</sup> , Abdul-Rahman A. Al-kubaisi <sup>2</sup> <sup>1</sup> Environmental Research Center, University of Technology, Baghdad, Iraq.	11:00-10:45
Department of Biology, Collage of Science for Women, University of Baghdad, Baghdad, Iraq استراحة	
	11:30-11:00

	الجلسة الصباحية الثانية 2018/11/25	
قاعة رقم 2	تاذ الدكتور نوفل عبد الأمير حسين ناذ المساعد الدكتور فلاح حسن رحيل	
	dy of Nitrate Anions by Different Materials using Fixed	
Bed Column		9:15-9:00
Department of Chem	Anaam A. Sabri, Noor S. Abbood nical Engineering, University of Technology, Baghdad, Iraq	7.13-7.00
ESD 104: Synthesis and	Study of Silver Nanoparticles Using Iraqi and Indian	
Lawsonia Inermis Plant Organic Pollutant	t and their Catalytic Performance in Degradation of	
Bassam A.R. Alabdul Az	ziz <sup>1</sup> , Ahmed M. Sadda <sup>2</sup> , Thuraya M. Ibrahim <sup>2</sup> , Zainab T.Y. Al-Abdullah <sup>2</sup>	9:30-9:15
<sup>2</sup> Chemistry Department, Co	rtment, Marine Science Center, Basrah University, Basrah, Iraq ollege of Education for Pure Sciences, Basrah University, Basrah	
ESD 109: Study the Ch Wastewater Treatment	naracteristics Performance of Anaerobic Filter for Dairy	
wastewater Treatment		9:45-9:30
	Tagreed Lutfee	
ESD 124: Evaluation Food Products in Basrah	of Bacterial Quality for Imported and Locally Canned	
rood i roducts in Dasian	City Tillough 2013	10:00-9:45
	Ihsan E. Alsaimary	
	ology, College of Medicine, University of Basrah, Basra, Iraq e Liquid Medical Waste and Sewage	
ESD 130. A Study on the	e Liquid Medicai Waste and Sewage	10.15 10.00
College of	Al-Niaeem, Fatima A.H. Sultan, Amjed K. Resen f Agriculture, University of Basrah, Basrah, Iraq	10:15-10:00
_	ne Trends of Mean Temperature and Rainfall Rate in the With Global Climate Change	
City of Samawan (fraq)	With Global Chimate Change	10:30-10:15
	Ather Hussin	
ESD 147	was the Car D. Hard or or Frake Was a Contain for	
Monitoring Ecosystem D	munities Can Be Used as an Early Warning System for	
Tromtoring Leosystem D	egi uuuton	10:45-10:30
	S. Al-Niaeem <sup>1</sup> , Raed S. Atti <sup>2</sup> , Amjed K. Resen <sup>1</sup>	
	of Agriculture, University of Basrah, Basrah, Iraq of Agriculture, University of Diyala, Diyala, Iraq	
ESD 131: Effect of Irri	igation Water Quality on Some Vegetative and Rooting	
_	s Sativus L., and Its Content of Mineral and Heavy	11 00 10 15
Elements		11:00-10:45
Ali H.M. Atı	taha, Salwa J. Fakher and Najila M. Abd Al Hleam	
	استراحة	11:30-11:00
	الجلسة الصباحية الثالثة 2018/11/25	
قاعة رقم 3	تاذ المساعد الدكتورة هالة بهجت عبد الوهاب	
	ناذ المساعد الدكتورة سولاف عبد خضير	مقرر الجلسة: الاست
ESD 16: Framework for	Solid Waste Management in Steel Fabrication	
Luma	A.H. Al-Kindi, Wadood K. Kh. Alghabban	9:15-9:00
	and Metallurgy Dept., University of Technology, Baghdad, Iraq	

ESD 61: Electrode V	Wear Evaluation in E.D.M Process		
ESD of Electrone	Total Divilation in Librit 1100055	0.20.0.15	
	Ali A. Khleif, Osama S. Sabbar	9:30-9:15	
	University of Technology, Baghdad, Iraq		
ESD 112: Effect of	Solution Stability on Biomimetic Apatite of Electrophoretic		
Deposition of HA/YF			
•	•		
Mohammed J	J. Kadhim <sup>1</sup> , Nawal E. Abdullatef <sup>2</sup> , Makarim H. Abdulkareem <sup>2</sup>	9:45-9:30	
	nd Advanced Materials Research Center, University of Technology		
	ction Engineering and Metallurgy, University of Technology, Baghdad		
ESD 113: Effect	of Process Variables on Performance of Electrophoretic		
	Z on 316L Stainless Steel		
		10:00-9:45	
Mohammed J	J. Kadhim <sup>1</sup> , Nawal E. Abdullatef <sup>2</sup> , Makarim H. Abdulkareem <sup>2</sup>	10:00-9:43	
<sup>1</sup> Nanotechnology a	nd Advanced Materials Research Center, University of Technology		
<sup>2</sup> Department of p	roduction Engineering and metallurgy, University of Technology		
	vement Hot Corrosion Resistance and Microstructure of		
composite Plasma Sp	orayed Thermal Barrier Coatings by Laser Sealing		
•		10:15-10:00	
Mohamm	ned J. Kadhim, Sami Abualnoun Ajeel, Ali Mezher Resen		
Department of Produc	etion Engineering and Metallurgy, University of Technology, Baghdad		
	ucture and Mechanical Properties of Laser Surface Melting		
	ol Steel Type <sup>56</sup> NiCrMoV <sub>7</sub>		
0 0	••	10:30-10:15	
Mohar	mmed J. Kadhim, Amin D. Thamir, Ibrahim A. Ahmed		
	ction Engineering and Metallurgy, University of Technology, Baghdad		
	nce of Skin Test Reactivity to Aeroallergens in Patients with		
Chest and Skin Aller	rgies in Basrah through 2014 and 2015		
	8	10:45-10:30	
	Falih H. Mezban <sup>1</sup> , Ihsan E. Alsaimary <sup>2</sup>	10:45-10:50	
	<sup>1</sup> Center of Allergy and Asthma Diseases, Basrah		
	crobiology, College of Medicine, University of Basrah, Basrah, Iraq		
		11.30 11.00	
	crobiology, College of Medicine, University of Basrah, Basrah, Iraq	11:30-11:00	
	crobiology, College of Medicine, University of Basrah, Basrah, Iraq	11:30-11:00	
<sup>2</sup> Department of Mio	crobiology, College of Medicine, University of Basrah, Basrah, Iraq استراحة 2018/11/25		
	erobiology, College of Medicine, University of Basrah, Basrah, Iraq استراحة  الجلسة الصباحية الرابعة 2018/11/25	رنيس الجلسة: الأس	
<sup>2</sup> Department of Mio	crobiology, College of Medicine, University of Basrah, Basrah, Iraq استراحة 2018/11/25	رنيس الجلسة: الأس	
<sup>2</sup> Department of Mio	erobiology, College of Medicine, University of Basrah, Basrah, Iraq استراحة  الجلسة الصباحية الرابعة 2018/11/25	رنيس الجلسة: الأس	
<sup>2</sup> Department of Mio	erobiology, College of Medicine, University of Basrah, Basrah, Iraq استراحة الجلسة الصباحية الرابعة 2018/11/25 تاذ الدكتور نبيل السمالوطي ناذ المساعد الدكتور صديق أحمد قاسم	رئيس الجلسة: الأس مقرر الجلسة: الأسة	
<sup>2</sup> Department of Mic 4 قاعة رقم ESD 8: Environment	erobiology, College of Medicine, University of Basrah, Basrah, Iraq استراحة  2018/11/25 الجلسة الصباحية الرابعة 2018/11/25 تاذ الدكتور نبيل السمالوطي ناذ المساعد الدكتور صديق أحمد قاسم ناذ المساعد الدكتور حديق احمد قاسم tal Impact Assessment of Abu-Ghraib Dairy Factory	رنيس الجلسة: الأس	
<sup>2</sup> Department of Mic 4 قاعة رقم ESD 8: Environment Ali Ezz Ulddin, Za	erobiology, College of Medicine, University of Basrah, Basrah, Iraq استراحة الجلسة الصباحية الرابعة 2018/11/25 تاذ الدكتور نبيل السمالوطي ناذ المساعد الدكتور صديق أحمد قاسم	رئيس الجلسة: الأس مقرر الجلسة: الأسة	
<sup>2</sup> Department of Mic 4 قاعة رقم ESD 8: Environment Ali Ezz Ulddin, Za Civil Engine	الجلسة الصباحية الرابعة 2018/11/25 تاذ الدكتور نبيل السمالوطي تاذ الدكتور صديق احمد قاسم ناذ المساعد الدكتور صديق احمد قاسم نامساعد الدكتور مديق احمد قاسم نامساعد الدكتور مديق احمد قاسم	رنيس الجلسة: الأس مقرر الجلسة: الأسة	
<sup>2</sup> Department of Mic  4 قاعة رقم 4  ESD 8: Environment  Ali Ezz Ulddin, Za  Civil Engine  ESD 132: Phytorem	استراحة 2018/11/25 استراحة 2018/11/25 الجلسة الصباحية الرابعة 2018/11/25 تاذ الدكتور نبيل السمالوطي تاذ الدكتور نبيل السمالوطي تاذ المساعد الدكتور صديق أحمد قاسم تاذ المساعد الدكتور صديق أحمد قاسم تاذ المساعد الدكتور صديق احمد قاسم تاذ المساعد الدكتور صديق احمد قاسم تاذ المساعد الدكتور صديق احمد قاسم تان المساعد الدكتور المساعد الدكتور عديق احمد قاسم تان المساعد الدكتور المساعد الدكتور عديق احمد قاسم تان المساعد الدكتور عديق احمد قاسم تان المساعد الدكتور عديق احمد قاسم تان المساعد الدكتور المساعد الدكتور المساعد الدكتور المساعد المساعد الدكتور المساعد الدكتور المساعد الدكتور المساعد الدكتور المساعد المساعد الدكتور المساعد المساعد المساعد الدكتور المساعد المساعد الدكتور المساعد الدكتور المساعد المساعد المساعد الدكتور المساعد المساعد المساعد المساعد المساعد الدكتور المساعد الدكتور المساعد الدكتور المساعد	رنيس الجلسة: الأس مقرر الجلسة: الأسة	
<sup>2</sup> Department of Mic  4 قاعة رقم 4  ESD 8: Environment  Ali Ezz Ulddin, Za  Civil Engine  ESD 132: Phytorem	استراحة المساحية الرابعة 2018/11/25 المساحية الرابعة 2018/11/25 المساحية الرابعة الرابعة المساحية الرابعة الدكتور نبيل السمالوطي المساحد الدكتور نبيل السمالوطي المساعد الدكتور صديق أحمد قاسم المساعد الدكتور صديق أحمد قاسم المساعد الدكتور صديق المساعد الدكتور صديق المساعد الدكتور صديق المساعد الدكتور صديق المساعد الدكتور المساعد المساعد الدكتور المساعد الدكتور المساعد المساعد الدكتور المساعد الم	رنيس الجلسة: الأس مقرر الجلسة: الأسة	
<sup>2</sup> Department of Mic  4 قاعة رقم 4  ESD 8: Environment  Ali Ezz Ulddin, Za  Civil Engine  ESD 132: Phytorem  Shatt Al-Arab River	استراحة المساحية الرابعة 2018/11/25 المساحية الرابعة 2018/11/25 المساحية الرابعة الرابعة 11/25 المساحد الدكتور نبيل السمالوطي المساعد الدكتور صديق أحمد قاسم الذ المساعد الدكتور صديق أحمد قاسم الله المساعد الدكتور صديق المد قاسم الله المساعد الدكتور المدال المساعد الدكتور المد قاسم المد قاسم الله المدال الله المساعد الدكتور المدال المدال المدال المدال المدال الله المدال الله المدال الله المدال الله الله المدال الله الله الله الله الله الله الله ا	رنيس الجلسة: الأس مقرر الجلسة: الأسة	
<sup>2</sup> Department of Mic 4 قاعة رقم ESD 8: Environment Ali Ezz Ulddin, Za Civil Engine ESD 132: Phytorem Shatt Al-Arab River	استراحة المساحية الرابعة 2018/11/25 المساحية الرابعة 2018/11/25 المساحية الرابعة الرابعة المساحية الرابعة الدكتور نبيل السمالوطي المساحد الدكتور نبيل السمالوطي المساعد الدكتور صديق أحمد قاسم المساعد الدكتور صديق أحمد قاسم المساعد الدكتور صديق المساعد الدكتور صديق المساعد الدكتور صديق المساعد الدكتور صديق المساعد الدكتور المساعد المساعد الدكتور المساعد الدكتور المساعد المساعد الدكتور المساعد الم	رئيس الجلسة: الأس مقرر الجلسة: الأسة 9:15-9:00	
<sup>2</sup> Department of Mic  4 مقعة رقم 4  ESD 8: Environment  Ali Ezz Ulddin, Za Civil Engine  ESD 132: Phytorem  Shatt Al-Arab River  Taha Y	استراحة الحسادية الرابعة 2018/11/25 الجلسة الصباحية الرابعة 2018/11/25 الجلسة الصباحية الرابعة الدكتور نبيل السمالوطي المسالوطي المسادوطي المساعد الدكتور صديق احمد قاسم الذ المساعد الدكتور صديق احمد قاسم الفا المساعد الدكتور صديق احمد قاسم الفا المساعد الدكتور صديق احمد قاسم الفا المساعد الدكتور المساعد المساعد الدكتور المساعد المساعد المساعد الدكتور المساعد المس	رئيس الجلسة: الأس مقرر الجلسة: الأسة 9:15-9:00	
<sup>2</sup> Department of Mic  4 مقعة رقم 4  ESD 8: Environment  Ali Ezz Ulddin, Za Civil Engine  ESD 132: Phytorem  Shatt Al-Arab River  Taha Y	استراحة الحلاية الصباحية الرابعة 2018/11/25 الجلاية الصباحية الرابعة 2018/11/25 تاذ الدكتور نبيل السمالوطي تاذ الدكتور نبيل السمالوطي المساعد الدكتور صديق أحمد قاسم تاذ المساعد الدكتور صديق أحمد قاسم تاذ المساعد الدكتور صديق احمد قاسم تاذ المساعد الدكتور المساعد الدكتور صديق احمد قاسم تاذ المساعد الدكتور المساعد المساعد الدكتور المساعد المساعد الدكتور المساعد الدكتور المساعد الدكتور المساعد الدكتور المساعد الم	رئيس الجلسة: الأس مقرر الجلسة: الأسة 9:15-9:00	
2Department of Mic  4 ما قاعة رقم 4  ESD 8: Environment  Ali Ezz Ulddin, Za  Civil Engine  ESD 132: Phytorem  Shatt Al-Arab River  Taha Y  Department of P  2Department of Soil	الجلسة الصباحية الرابعة 2018/11/25 تاذ الدكتور نبيل السمالوطي تاذ الدكتور نبيل السمالوطي ناذ المساعد الدكتور صديق أحمد قاسم ناذ المساعد الدكتور صديق أحمد قاسم ناذ المساعد الدكتور المسادوطي ناماعد المسادوطي ناماعد الدكتور المسادوطي ناماعد المس	رئيس الجلسة: الأس مقرر الجلسة: الأسة 9:15-9:00	
2Department of Mic  4 ما قاعة رقم 4  ESD 8: Environment  Ali Ezz Ulddin, Za  Civil Engine  ESD 132: Phytorem  Shatt Al-Arab River  Taha Y  Department of P  2Department of Soil	Tobiology, College of Medicine, University of Basrah, Basrah, Iraq  2018/11/25 الجلسة الصباحية الرابعة 2018/11/25  تاذ الدكتور نبيل السمالوطي المساعد الدكتور صديق أحمد قاسم المساعد الدكتور صديق أحمد قاسم المساعد الدكتور صديق أحمد قاسم المساعد الدكتور صديق المد قاسم المساعد الدكتور المساعد المساعد الدكتور المساعد المساعد الدكتور المساعد المساعد المساعد المساعد الدكتور المساعد الم	رئيس الجلسة: الأس مقرر الجلسة: الأسة 9:15-9:00	
2Department of Mice  4 ما تحقیقی می	Tobiology, College of Medicine, University of Basrah, Basrah, Iraq  2018/11/25 الجلسة الصباحية الرابعة 2018/11/25  تاذ الدكتور نبيل السمالوطي المساعد الدكتور صديق أحمد قاسم المساعد الدكتور صديق أحمد قاسم المساعد الدكتور صديق أحمد قاسم المساعد الدكتور صديق المد قاسم المساعد الدكتور المساعد المساعد الدكتور المساعد المساعد الدكتور المساعد المساعد المساعد المساعد الدكتور المساعد الم	رنيس الجلسة: الأس مقرر الجلسة: الأسة 9:15-9:00	
Ali Ezz Ulddin, Za Civil Engine ESD 132: Phytorem Shatt Al-Arab River  Taha Y  Department of P  Department of Soil  ESD 110: Environm Baghdad, Iraq	Tobiology, College of Medicine, University of Basrah, Basrah, Iraq  2018/11/25 الجلسة الصباحية الرابعة 2018/11/25  تاذ الدكتور نبيل السمالوطي المساعد الدكتور صديق أحمد قاسم المساعد الدكتور صديق أحمد قاسم المساعد الدكتور صديق أحمد قاسم المساعد الدكتور صديق المد قاسم المساعد الدكتور المساعد المساعد الدكتور المساعد المساعد الدكتور المساعد المساعد المساعد المساعد الدكتور المساعد الم	رئيس الجلسة: الأس مقرر الجلسة: الأسة 9:15-9:00	
Ali Ezz Ulddin, Za Civil Engine ESD 132: Phytorem Shatt Al-Arab River  Taha Y  Department of P  Department of Soil  ESD 110: Environm Baghdad, Iraq  Saadi M.D.	2018/11/25 الجلسة الصباحية الرابعة 2018/11/25 الجلسة الصباحية الرابعة الدكتور نبيل السمالوطي الجلسة الصباحية الرابعة الدكتور نبيل السمالوطي الجاسة الصباحية الرابعة الدكتور نبيل السمالوطي الحدة الدكتور صديق أحمد قاسم التحد الدكتور صديق أحمد قاسم التحد الدكتور صديق أحمد قاسم التحد الدكتور التحد الدكتور التحد الدكتور التحد الدكتور التحد الله	رئيس الجلسة: الأس مقرر الجلسة: الأسة 9:15-9:00	
Ali Ezz Ulddin, Za Civil Engine ESD 132: Phytorem Shatt Al-Arab River  Taha Y  Department of P  Department of Soil  ESD 110: Environm Baghdad, Iraq  Saadi M.D  Tenvironment	arichiology, College of Medicine, University of Basrah, Basrah, Iraq  2018/11/25 المتاحد الحكتور نبيل السمالوطي  Ital Impact Assessment of Abu-Ghraib Dairy Factory  Inab B. Mohammed, Abdul Razzak T. Ziboon, Hiba Abdul Razzak bering Department, University of Technology, Baghdad, Iraq  ediation of Heavy Metals (Cd, Cu, Fe, and Pb) Contaminated Water by Using Aquatic Plants  Y. Al-Edani¹, Hayfaa J. Al-Tameemi², Zainab F.Jasim¹  lant Protection, College of Agriculture, University of Basrah, Iraq  Science and Water Resources, College of Agriculture, University of Basrah, Iraq  Science Assessment for Modern Brick Factory in  D. Al-Nuzal¹, Salih A. Al-Bakri¹, and Sarah D.A. Zankana².	رئيس الجلسة: الأس مقرر الجلسة: الأسة 9:15-9:00	
Ali Ezz Ulddin, Za Civil Engine ESD 132: Phytorem Shatt Al-Arab River  Taha Y  Department of P  Department of Soil  ESD 110: Environm Baghdad, Iraq  Saadi M.D  Tenvironment  Technical De	arichiology, College of Medicine, University of Basrah, Basrah, Iraq  2018/11/25 المساحد الصباحية الرابعة 2018/11/25  Ital Impact Assessment of Abu-Ghraib Dairy Factory  Imab B. Mohammed, Abdul Razzak T. Ziboon, Hiba Abdul Razzak bering Department, University of Technology, Baghdad, Iraq  ediation of Heavy Metals (Cd, Cu, Fe, and Pb) Contaminated Water by Using Aquatic Plants  Y. Al-Edani¹, Hayfaa J. Al-Tameemi², Zainab F.Jasim¹ lant Protection, College of Agriculture, University of Basrah, Iraq  Science and Water Resources, College of Agriculture, University of Basrah, Iraq  Science Assessment for Modern Brick Factory in  D. Al-Nuzal¹, Salih A. Al-Bakri¹, and Sarah D.A. Zankana². al Research Center, University of Technology, Baghdad, Iraq.	رئيس الجلسة: الأس مقرر الجلسة: الأسة 9:15-9:00	
Ali Ezz Ulddin, Za Civil Engine ESD 132: Phytorem Shatt Al-Arab River  Taha Y  Department of P  Department of Soil  ESD 110: Environm Baghdad, Iraq  Saadi M.D  Tenvironment  Technical De	archiology, College of Medicine, University of Basrah, Basrah, Iraq    College of Medicine, University of Basrah, Basrah, Iraq   College of Medicine, University of Basrah, Basrah, Iraq   College of Medicine, University of Basrah, Iraq	رئيس الجلسة: الأس مقرر الجلسة: الأسة 9:15-9:00	
Ali Ezz Ulddin, Za Civil Engine ESD 132: Phytorem Shatt Al-Arab River  Taha Y  ¹Department of P ²Department of Soil  ESD 110: Environm Baghdad, Iraq  Saadi M.D ¹Environment ²Technical De  ESD 137: Study the	archiology, College of Medicine, University of Basrah, Basrah, Iraq    College of Medicine, University of Basrah, Basrah, Iraq   College of Medicine, University of Basrah, Basrah, Iraq   College of Medicine, University of Basrah, Iraq	نيس الجلسة: الأس قرر الجلسة: الأسة 9:15-9:00 9:30-9:15	

Ghayda, Y. AL Kindi and Faris, H. AL Ani	
Civil Engineering Dept., University of Technology, Baghdad, Iraq  ESD 145: Effect of Ash of Some Plant Waste on Improving Mean Weight	
Diameter for Two Soil and Growth of Wheat Plant Tritichum Aestivumsl.	
Irrigated with Contaminated Water	10:15-10:00
Dr. Nihad Sh. Al-Wali, Najla J. Al-Amiri, Nbras Fared Salman	
ESD 156:	
Title: Method and a Bench Scale Apparatus for the Removal of Lead from Water by Sorption on Clay Mineral	
	10:30-10:15
Najah M. Al-Shuwaiki <sup>1</sup> , Mahmood M. Barbooti <sup>2</sup> <sup>1</sup> Dijlah University College, Baghdad, Iraq	
<sup>2</sup> Applied Chemistry Department, University of Technology, P.O. Box 35045, Baghdad, Iraq	
ESD 99: Proximate Composition of Fresh Water Prawn Marobrachium nipponenses and Crab Potamon sp. from al-Hawizah Marshes, South of Iraq	
impronenses and Crab rotamon sp. from ai-mawizan wiarsnes, South of fraq	10:45-10:30
Khaled Kh. Al-Khafaji1, Amal S. Al-Sherra1, Rajaa K. Hanaf 2	10:45-10:50
1Department of Marine Biology, Marine Science Center, University of Basrah, Basra, Iraq 2Department of Natural, Collage of Marine Science, University of Basrah, Basra, Iraq	
استراحة	11:30-11:00
الجلسة الصباحية الخامسة 2018/11/25	
1 5 7015	
ناذ الدكتور صلاح يوسف ذ المساعد الدكتور سعدي محمد ظاهر	رئيس الجلسة: الأسنا
ESD 89: Apply Green Economy to Waste Management	11:45-11:30
Hayder Al-guboori <sup>1</sup> , Salman H. Omran <sup>2</sup> , Huda Jaber <sup>3</sup> <sup>1</sup> Department of Metallurgical Engineering, College of Materials Engineering, University of	
Babylon, Iraq	
2 Ministry of Higher Education and Scientific Research, Iraq 3 College of Pharmacy, Mustansiriyah University, Baghdad, Iraq	
ESD 90: Recycling of Sewage Sludge Ash in Polymer Structures	12:00-11:45
Mohamad Alsaadi, Aseel B Al-Zubaidi, Mukhallad haider ,Hasanain Hashim	
Materials Engineering Department, University of Technology, Baghdad, Iraq	
ESD 101: Recycling and Improving the Solid Waste of Aluminum Alloys	12:15-12:00
Mustafa Ahmed Rajab <sup>1</sup> , Ziad Tariq Khudair <sup>2</sup> , Faten Rashid Al Khalidi <sup>3</sup>	
<sup>1</sup> Mechanical Dept., Technical Institute of Baqubah, Middle Technical University, Iraq <sup>2</sup> Faculty of Science, University of Diyala, Diyala, Iraq	
<sup>3</sup> M.Sc. of Civil Engineering, Ministry of Education	
ESD116: Optimization Process for Laser Processing of Forged Tool Steel	12:30-12:15
Amin D. Thamer, Mohammed J. Kadhim, Ibrahim A. Ahmed	
Department of Production Engineering and Metallurgy, University of Technology, Baghdad	12 45 12 20
ESD 117: Microstructure and Hardness of Forged Steel Surface Treated With CO <sub>2</sub> High Power Laser	12:45-12:30
Amin D. Thamer, Mohammed J. Kadhim, Ibrahim A. Ahmed Department of Production Engineering and Metallurgy, University of Technology, Baghdad	
ESD 135: Impact of a Bright Nickel Interlayer on the Performance of Solar Absorber Nanocoatings Deposited by Electrodeposited on Copper Substrate	1:00-12:45
Mohammed J. Kadhim <sup>1</sup> , Khalid A. Sukkar <sup>2</sup> , Ahmed S. Abbas <sup>3</sup>	
<sup>1</sup> Nanotechnology and Advanced Materials Research Centre, University of Technology	
<sup>2</sup> Department of Chemical Engineering, University of Technology, Baghdad, Iraq <sup>3</sup> Department of Production Engineering and Metallurgy, University of Technology, Baghdad	

ESD 119: Effect of S	Si on Recyclability on Al-Si Alloys	1:15-1:00
	nmed J. Kadhim, Mahdi M. Hanoun, Nawar S. Bahgat roduction Engineering and Metallurgy, University of Technology	
ESD 121: Sustainab	ESD 121: Sustainability Improvement of Plasma Sprayed Thermal Barriers	
Coatings by Continu		
<sup>1</sup> Nanotechnology at <sup>2</sup> Colle	nd J. Kadhim <sup>1</sup> , Mohammed H. Hafiz <sup>2</sup> , Maryam A. Alibash <sup>3</sup> and Advanced Materials Research Center, University of Technology age of Engineering, Al-Iraqi University, Baghdad, Iraq	
<sup>3</sup> Department of P	roduction Engineering and Metallurgy, University of Technology	3:00-1:30
		3.00-1.30
قاعة رقم 2	الجلسة الصباحية السادسة 2018/11/25	
	تاذ الدكتور علاء وادي حسين	رئيس الجلسة: الأس
ECD 54 N. 4	ناذ المساعد الدكتورة بشرى محمد جابر	مقرر الجلسة: الأسن
ESD 54: Naturally Treatment Plant	Occurring Radon Assessment in Al-Rustumai Wastewater	11:45-11:30
<sup>1</sup> Environment	Sahar A. Amin <sup>1</sup> , Rana R. Alani <sup>1</sup> al Research Center, University of Technology, Baghdad, Iraq	
	lioactivity Level Along Tigris River Sediments in Baghdad	12:00-11:45
Governorate Area by	y Using CR-39 SSNTD`s	
	. Al-Nuzal, Abdul-Hameed M.J. Al-Obaidy, Sahar A. Amin al Research Centre, University of Technology, Baghdad, Iraq	
	of Gamma Radiation on Callosobruchus maculatus (F.)	12:15-12:00
(Coleoptera: Bruchic	dae) and seed germination	
	Abd, Soolaf A. Kathier and Emad Ahmed Mahmmod	
	Biology, College of Science for Women, University of Baghdad on the Effectiveness of Nano-5-aminolevulinic Acid in Breast	12:30-12:15
Cancer-Targeted Th		12.30-12.13
	munem Jasim <sup>1</sup> , Gihan Hosny <sup>2</sup> , and Samir Ali Abd El-kaream <sup>3</sup> technology Research Center, Al-Nahrain University	
<sup>2</sup> Institute of Graduate Studies & Research, Alexandria University <sup>3</sup> Medical Research Institute, Alexandria University		
ESD 107: New Trend in Neutron Activation Analysis of Boron Mounting on		12:45-12:30
	SST Detector CR-39 Used to Environmental and Industrial	
-	ID Al Nagali Jacoim M Nation? and Khalid D Elette?	
<sup>1</sup> Environment	Saadi M.D. Al-Nuzal <sup>1</sup> , Jassim M. Najim <sup>2</sup> , and Khalid R. Flaih <sup>2</sup> . <sup>1</sup> Environmental Research Centre, University of Technology, Baghdad, Iraq.	
	rtment, College of Science, Al-Anbar University, Anbar, Iraq.  ctural Characterizations and Failure Mechanism of Recycling	1:00-12:45
of New Al-Si swarf	commendations and I and to the continue of the jeining	1.00 12.10
	nmed J. Kadhim, Mahdi M. Hanoun, Nawar S. Bahgat roduction Engineering and Metallurgy, University of Technology	
ESD 128: Study of	Microwave Heating Process for Demulsification of Crude Oil	1:15-1:00
Emulsions		
<sup>1</sup> Chemical Eng	a <sup>1</sup> , Mohammed R. Ali <sup>2*</sup> , Jenan A. Al-Najar <sup>1</sup> and Nedhal A. Shaker <sup>1</sup> incering Department, University of Technology, Baghdad, Iraq	
raculty of Chemical a	and Natural Resources Engineering, University Malaysia Pahang-UMP	

	rivers and Barriers for Adopting Green Buildings in Iraq and	1:30-1:15
Discussion for the To	op Kanks	
D	Mustafa J. Alazawi, Asli P. Gurgun	
Department of Civil Engineering, University of Yildiz Technical University		3:00-1:30
قاعة رقم 3	الجلسة الصباحية السابعة 2018/11/25	2.00 1.20
	the first section of the second time	tu i i ii e
	تاذ الدكتور عقيل شاكر العادلي ناذ المساعد الدكتورة جنان شاوي زامل	رئيس الجلسة: الأسن مقرر الجلسة: الأسن
ESD 159: Assessment	of Health Care Waste Management (HCWM) In Iraq; Effects and	11:45-11:30
	Control	
	din A.H. Al-Nakkash, B.H. Faraj, Sedik A.K. Al-Hiyaly	
	he Potential Water Harvesting Sites Using Fuzzy GIS-Based	12:00-11:45
Spatial Multi-Criteri	a Evaluation in Salah Al-Din Governorate, Iraq	
<sup>1</sup> Civil Engine	ahim A. Alwan <sup>1</sup> , Hussein H. Karim <sup>1</sup> , Nadia A. Aziz <sup>2</sup> beering Department, University of Technology, Baghdad, Iraq	
	d Technology, Directorate of Space and Communication, Baghdad, Iraq  v Analysis of Groundwater Hydrlaulic Parameters in Al-	12:15-12:00
Mansouriya Zone	y marysis of Groundwater Hydriaune Farameters in M-	12.13-12.00
<sup>1</sup> Department of Civ	I. Jalut <sup>1</sup> , Nadia L. Abbas <sup>1</sup> , Abdulrahman Th. Mohammad <sup>2</sup> vil Engineering, College of Engineering, University of Diyala, Iraq chnical Institute, Middle Technical University, Baghdad, Iraq	
ESD 140: PMMA-	TiO <sub>2</sub> Nanocomposite Coating on Copper Substrate for	12:30-12:15
Corrosion Protection		
D	ina Y. Mahdi <sup>1</sup> , Ali A. Abdulhadi <sup>1</sup> , Ali H. Ataiwi <sup>1</sup>	
<sup>1</sup> Materials Engineering Department, University of Kufa, Najaf, Iraq		
ESD 72: A GIS-Based SINTACS Model for Assessing Intrinsic Groundwater Vulnerability of the Alton Kopri Basin, Kirkuk Governorate Northeast of Iraq		12:45-12:30
vulnerability of the A	Alton Kopri Basin, Kirkuk Governorate Northeast of Iraq	
	ri <sup>1</sup> , Alaa M. A. Al-Abadi <sup>1</sup> , Inass A.R. Al-Malla <sup>1</sup> , Adel B. Al-Badran <sup>2</sup> artment, College of science, University of Basrah, Basrah, Iraq <sup>24</sup> 6Summerway, Exeter, EX4 8DA, UK	
ESD 83: Modflow	Application System to Groundwater Flow Simulation in the	1:00-12:45
	d Aquifer at "Karbala–Najaf" Plateau, Central of Iraq	-111
Maitham A	A. Al-Ghanimy <sup>1</sup> , Qusai Y. Al-Kubaisi <sup>2</sup> , Alaa M. Al-Abadi <sup>3</sup>	
<sup>1</sup> General Cor	nmission of Groundwater, Ministry of Water Resources, Iraq	
	Geology, College of Sciences, University of Bagdad, Bagdad, Iraq Geology, College of Sciences, University of Basra, Basra, Iraq	
	of Nitrate from Contaminated Groundwater Using Solar	1:15-1:00
Membrane Distillation	e e	
Aloo H Al Fotlow	vi <sup>1</sup> , Mohsen Karrabi <sup>2</sup> , Ghassan abukhanafer <sup>3</sup> , Ahmed AL Salman <sup>1</sup>	
	College of Engineering, Babylon University, Iraq	
	e of Engineering, Ferdowsi University of Mashhad, Iran	
	lege of Engineering, University of Technology, Iraq <b>Ietals Accumulation in Two Types of Tree Leaves from</b>	1:30-1:15
Baghdad Urban Ares	v -	1,00 1,10
	MI AMI	
Mi	Maha A. Mahmoud nistry of Higher Education and Scientific Research	
	Athmar A.M. Al-Mashhady and Ali N. Ali	
Environment	al Research Center, University of Technology, Baghdad, Iraq وجبة الغداء	2.00 1.20
	وجبه العداء	3:00-1:30

قاعة رقم 4	الجلسة الصباحية الثامنة 2018/11/25	
ستاذ المساعد الدكتور احمد محمد حسن ستاذ المساعد الدكتور معن سلمان حسين		
	· • • • • • • • • • • • • • • • • • • •	
Coated on Fiberglass	s Sneet	
<sup>1</sup> Environmental Eng <sup>2</sup> Environment <sup>3</sup> Environmental Eng	mmed <sup>1</sup> , Abdul Hameed M.J. Al-Obaidy <sup>2</sup> , Safaa N. Al-Hussaini <sup>3</sup> gineering Department, Al-Mustansiriyah University, Baghdad, Iraq al Research Center, University of Technology, Baghdad, Iraq gineering Department, Al-Mustansiriyah University, Baghdad, Iraq	
ESD 37: Air Quality	Assessment of Some Selected Hospitals within Baghdad City	12:00-11:45
<sup>1</sup> Environment <sup>2</sup> Ka	aleem <sup>1</sup> , Abdul Hameed M.J. Al-Obaidy <sup>1</sup> , Salah M. Haleem <sup>2</sup> al Research Center, University of Technology, Baghdad, Iraq mal Al-Samarrai Specialist Hospital, Baghdad, Iraq	
	he Performance of Dissolved Air Flotation as Industrial	12:15-12:00
Wastewater Treatme	ent Method	
Tha	umer J. Mohammed & Mohammed K. Al-Barazanjy	
ESD 139: Fabricat	University of Technology ion and Evaluation some Mechanical Properties Hybrid	12:30-12:15
	posites for Structural Applications	12.00 12.10
	chy, Kadhum M. Shabeeb, Ammar M. Hasan and Rula F. Hasan Materials Engineering, University of Technology, Baghdad, Iraq.	
ESD 84: Cement I	Based Solidification/Stabilization Leaching Performances of	12:45-12:30
Selected Heavy Meta	l Ions under Different pH Extractions	
Basim A	A. Hussain <sup>1</sup> , Shahlaa E. Ebrahim <sup>2</sup> , Abbas H. Sulaymon <sup>2</sup>	
<sup>1</sup> Ministry of Science	e and Technology, Directorate of Hazardous Wastes Treatment and	
<sup>2</sup> Environmen	Disposal, Baghdad, Iraq ntal Engineering Dept., University of Baghdad, Baghdad, Iraq	
ESD 136: Water Qua	ality Pollution Indices to Assess Heavy Metal Contamination;	1:00-12:45
Case Study: Surface	Water Resources Of Karbalaa City In 2016	
<sup>1</sup> Architectur <sup>2</sup> Civil Engine	nib Imran <sup>1</sup> , Sataa A.F. Al – Bayati <sup>2</sup> , Jawad K. AL-Rifaie <sup>3</sup> re Department, Al Safwa University College, Karbalaa, Iraq eering Department, University of Technology, Baghdad, Iraq nib Tech. Institute, Al- Furat Al-Awsat University, Iraq	
	mental Impact Assessment of Medical Wastes Shredding Feaching Hospital- Babylon Province, IRAQ	1:15-1:00
Sanitary and Enviro	H. Ali <sup>1</sup> , Sedik A.K. Al-Hiyaly <sup>2</sup> , Ghayda Y. Al-Kindid <sup>1</sup> onmental Engineering, Civil Engineering Department, University of Iraq, <sup>2</sup> Environmental Research Center, University of Technology, Iraq	
	وجبة الغداء	3:00-1:30

الجلسات العلمية المسائية 2018/11/25				
الجلسة المسانية الأولى 2018/11/25				
قاعة رقم 1	رئيس الجلسة: الأستاذ الدكتور علي حسين عتيوي مقرر الجلسة: الأستاذ المساعد الدكتورة سكينة حسن هاشم			
مقرر الجلسة: الاستاذ المساعد الدكتورة سكينة حسن هاشم ESD 108: Green Computing and Greening Internet of Things				
ESD 100. Green Cor		3:15-3:00		
Hala B. Abdul Wahab Computer Sciences Department, University of Technology, Baghdad, Iraq.				
ESD 162: The Rela Study: AL Kut City	tionship between Traffic Congestion and Land Uses, Case			
	an A. Jasim <sup>1</sup> , Thaer Shaker <sup>2</sup> , Sohaib K. Al-Mamoori <sup>3</sup> ment of Architecture Engineering, Wasit University, Iraq	3:30-3:15		
	partment of Civil Engineering, Anbar University, Iraq			
Department of Envir	ronmental Planning, Faculty of Physical Planning, University of Kufa, Najaf, Iraq			
	et of Using Multi Types of Mineral Admixtures on Some			
Properties of Lightwe	ight Self-Compacting Concrete	3:45-3:30		
Wale	eed A. Abbas, Qais J. Frayyeh, Shubbar J. Al Obaidey			
FSD 142: Advanced	University of Technology, Baghdad, Iraq Functionally Graded Materials by Powder Technology			
ESD 142. Advanced	Tunctionary Graded Materials by Fowder Technology			
	mmed J. Kadhim <sup>1</sup> , Iman A. Annon <sup>2</sup> , Nour A. Rasheed <sup>2</sup>	4:00-3:45		
	<sup>1</sup> Nanotechnology and Advanced Materials Research Center, University of Technology <sup>2</sup> Department of Production Engineering and Metallurgy, University of Technology, Baghdad, Iraq			
	zation of Ceramic-Ceramic Functionally Graded Materials by			
Powder Technology		4:15-4:00		
Mohammed J. Kadhim <sup>1</sup> , Iman A. Annon <sup>2</sup> , Nour A. Rasheed <sup>2</sup>				
<sup>1</sup> Nanotechnology and Advanced Materials Research Center, University of Technology				
<sup>2</sup> Department of Production Engineering and Metallurgy, University of Technology, Baghdad, Iraq ESD 122: Design Process Performance for Optimum Selection of Laser Parameters				
for Laser Sealing of	Thermal Barrier Coatings			
Mohamme	ed J. Kadhim <sup>1</sup> , Mohammed H. Hafiz <sup>2</sup> , Maryam A. Alibash <sup>3</sup>	4:30-4:15		
<sup>1</sup> Nanotechnology and A	dvanced Materials Research Center, University of Technology, Baghdad			
<sup>2</sup> College of Engineering, Al-Iraqi University, Baghdad, Iraq <sup>3</sup> Department of Production Engineering and Metallurgy, University of Technology, Baghdad, Iraq				
استراحة		6:00-4:30		
	جولة حرة مع وجبة عشاء	10:00-6:00		
	الجلسة المسائية الثانية 2018/11/25			
قاعة رقم 2	أستاذ الدكتور محمد سليمان اليماني	رئيس الجلسة: الا		
	ستاذ الدكتورة سناء أبو شنب	مقرر الجلسة: الأر		
ESD 56: Phytochemical and Antioxidant Activity of Asplenium Species (Spleenworts) Extracts from Northern Districts of Iraq				
Abbas M. Jamaill. T.O. Al Whastaii? D.V. Maulaad3				
Abbas M. Ismail <sup>1</sup> , T.O. Al-Khasreji <sup>2</sup> , B.K. Maulood <sup>3</sup> , <sup>1</sup> College of Science for Women, University of Baghdad, Baghdad, Iraq				
<sup>2</sup> College of Education for Pure Science, University of Tikrit, Saiahddin, Iraq <sup>3</sup> College of Science, University of Salahddin, Erbil, Iraq				
ESD 64: DNA Fingerprints of Two Tilapian Fish Species Using RAPD Markers in  3:3				
Euphrates River in Governorate of Al-Muthanna				
Taha Y. Al-Khafaji <sup>1</sup> , Mustafa S. F. Ziyadi <sup>2</sup> , Marwa K. Musad <sup>2</sup>				

	al production, college of Agriculture, University of Muthanna.		
<sup>2</sup> Dept. Marine Vertebrate, Marine Science Centre, University of Basrah  ESD 65: Assessment of Wetland Restoration and Climate Change Impacts on			
Water Balance Components of the Heeia Coastal Wetland in Hawaii			
•			
K.A. Ghazal <sup>1</sup> , O.T. Leta <sup>2</sup> , A.I. El-Kadi <sup>3</sup> , H. Dulai <sup>3</sup> <sup>1</sup> Department of Soil Science and Water Resources, University of Kufa, Najaf, Iraq			
<sup>2</sup> Water Resources Research Center, University of Hawaii at Manoa, Honolulu, HI, 96822, USA			
<sup>3</sup> Dept. of Geology and Geophysics, University of Hawaii at Manoa, Honolulu, HI, 96822, USA			
ESD 88: Checklist of Algal Flora in Tigris River within Baghdad city –Iraq			
Jinan S. Al Hassany, Rawaa N. Al-saedy and Fikrat M. Hassan			
Department of Biology, College of Science for Women, University of Baghdad, Iraq			
ESD 78: Efficacy of	of Ecofriendly Biocontrol Azotobacter and Lactobacillus for	4:15-4:00	
	owth and Reducing Infection by <i>Neoscytalidium</i> Spp. on Fig	4.13 4.00	
Saplings			
	Sabah L. Alwan, Hawraa N. Hussein		
Faculty of Agric	cultural, Dept. of Plant Protection, University of Kufa, Najaf, Iraq		
	tegrated Fertilization System (Mineral-Organo and Biological)	4:30-4:15	
On Growth and N, P	Content of Barley Plants (Horedum Vulgare L.)		
	Z.K. Hasan, N.I. Ashour, H.F. Jasem		
Dept. of Soil Sci. and	d water Resources, College of Agriculture, University of Basrah, Iraq.	( 00 4 20	
	استراحة	6:00-4:30	
	جولة حرة مع وجبة عشاء	10:00-6:00	
	الجلسة المسانية الثالثة 2018/11/25		
قاعة رقم 2			
2,3	أستاذ الدكتور ثامر جاسم محمد ستاذ المساعد الدكتور فلاح حسن رحيل	رئيس الجلسه: الا	
ESD 82: Evaluation	of Microcin N Gene Presence in Enterobacteriaceae Collected	3:15-3:00	
from Patients Suffering from UTI from Hospitals in AL-Najaf City			
	Sahar M. Jawad AL-Salam District City, Najaf, Iraq		
ESD 86: Comparison	ESD 86: Comparison between Iraqi Gauges and TRMM Rainfall Data over Middle		
Euphrates Region during Period from 1998 to 2017			
Euphrates Region du		3:30-3:15	
	ring Period from 1998 to 2017	3:30-3:15	
Imzahii	ring Period from 1998 to 2017  n A. Alwan <sup>1</sup> , Abdul Razzak T. Ziboon <sup>1</sup> , Alaa G. Khalaf <sup>2</sup>	3:30-3:15	
Imzahii <sup>1</sup> University <sup>2</sup> Ministry of Science a	nring Period from 1998 to 2017  n A. Alwan <sup>1</sup> , Abdul Razzak T. Ziboon <sup>1</sup> , Alaa G. Khalaf <sup>2</sup> of Technology, Civil Engineering Department, Baghdad, Iraq and Technology, Space and Communication Directorate, Baghdad, Iraq		
Imzahii <sup>1</sup> University <sup>2</sup> Ministry of Science a	ring Period from 1998 to 2017  m A. Alwan <sup>1</sup> , Abdul Razzak T. Ziboon <sup>1</sup> , Alaa G. Khalaf <sup>2</sup> of Technology, Civil Engineering Department, Baghdad, Iraq	3:30-3:15	
Imzahii <sup>1</sup> University <sup>2</sup> Ministry of Science a	nring Period from 1998 to 2017  nn A. Alwan <sup>1</sup> , Abdul Razzak T. Ziboon <sup>1</sup> , Alaa G. Khalaf <sup>2</sup> of Technology, Civil Engineering Department, Baghdad, Iraq and Technology, Space and Communication Directorate, Baghdad, Iraq and the Coliform Bacteria in Basrah Water and Fish Ponds		
Imzahin <sup>1</sup> University <sup>2</sup> Ministry of Science a <b>ESD 133: A Study o</b> Coll	m A. Alwan <sup>1</sup> , Abdul Razzak T. Ziboon <sup>1</sup> , Alaa G. Khalaf <sup>2</sup> of Technology, Civil Engineering Department, Baghdad, Iraq and Technology, Space and Communication Directorate, Baghdad, Iraq and the Coliform Bacteria in Basrah Water and Fish Ponds  Amjed K. Resen and Khalidah S. Al-Niaeem ege of Agriculture, University of Basrah, Basrah, Iraq	3:45-3:30	
Imzahin <sup>1</sup> University <sup>2</sup> Ministry of Science a <b>ESD 133: A Study o</b> Coll	n A. Alwan <sup>1</sup> , Abdul Razzak T. Ziboon <sup>1</sup> , Alaa G. Khalaf <sup>2</sup> of Technology, Civil Engineering Department, Baghdad, Iraq and Technology, Space and Communication Directorate, Baghdad, Iraq and the Coliform Bacteria in Basrah Water and Fish Ponds  Amjed K. Resen and Khalidah S. Al-Niaeem ege of Agriculture, University of Basrah, Basrah, Iraq ent and Management of Iraqi Marine Artisanal Fisheries,		
Imzahin <sup>1</sup> University <sup>2</sup> Ministry of Science at  ESD 133: A Study of  Coll  ESD 134: Assessment	m A. Alwan <sup>1</sup> , Abdul Razzak T. Ziboon <sup>1</sup> , Alaa G. Khalaf <sup>2</sup> of Technology, Civil Engineering Department, Baghdad, Iraq and Technology, Space and Communication Directorate, Baghdad, Iraq and the Coliform Bacteria in Basrah Water and Fish Ponds  Amjed K. Resen and Khalidah S. Al-Niaeem ege of Agriculture, University of Basrah, Basrah, Iraq ent and Management of Iraqi Marine Artisanal Fisheries, bian Gulf	3:45-3:30	
Imzahin <sup>1</sup> University <sup>2</sup> Ministry of Science at  ESD 133: A Study of  Coll  ESD 134: Assessment  Northwest of the Ara	n A. Alwan <sup>1</sup> , Abdul Razzak T. Ziboon <sup>1</sup> , Alaa G. Khalaf <sup>2</sup> of Technology, Civil Engineering Department, Baghdad, Iraq and Technology, Space and Communication Directorate, Baghdad, Iraq and the Coliform Bacteria in Basrah Water and Fish Ponds  Amjed K. Resen and Khalidah S. Al-Niaeem ege of Agriculture, University of Basrah, Basrah, Iraq ent and Management of Iraqi Marine Artisanal Fisheries,	3:45-3:30	
Imzahin <sup>1</sup> University <sup>2</sup> Ministry of Science at  ESD 133: A Study of  Coll  ESD 134: Assessment  Northwest of the Ara  Department of Fisherical	m A. Alwan <sup>1</sup> , Abdul Razzak T. Ziboon <sup>1</sup> , Alaa G. Khalaf <sup>2</sup> of Technology, Civil Engineering Department, Baghdad, Iraq and Technology, Space and Communication Directorate, Baghdad, Iraq and the Coliform Bacteria in Basrah Water and Fish Ponds  Amjed K. Resen and Khalidah S. Al-Niaeem ege of Agriculture, University of Basrah, Basrah, Iraq ant and Management of Iraqi Marine Artisanal Fisheries, bian Gulf  Abdul-Razak M. Mohamed	3:45-3:30	
Imzahin <sup>1</sup> University <sup>2</sup> Ministry of Science a  ESD 133: A Study of  Coll  ESD 134: Assessment  Northwest of the Ara  Department of Fisher  ESD 152: Monitoring	m A. Alwan <sup>1</sup> , Abdul Razzak T. Ziboon <sup>1</sup> , Alaa G. Khalaf <sup>2</sup> of Technology, Civil Engineering Department, Baghdad, Iraq and Technology, Space and Communication Directorate, Baghdad, Iraq and the Coliform Bacteria in Basrah Water and Fish Ponds  Amjed K. Resen and Khalidah S. Al-Niaeem age of Agriculture, University of Basrah, Basrah, Iraq and Management of Iraqi Marine Artisanal Fisheries, bian Gulf  Abdul-Razak M. Mohamed as and Marine Resources, College of Agriculture, University of Basrah	3:45-3:30 4:00-3:45	

ECD 466 EL E00		4:30-4:15
ESD 166: The Effect of Increasing Ambient Air Temperature on Air Pollutants		
Concentration		
Layla L. Alwan <sup>1</sup> Sedik A. Kasim <sup>2</sup> Ayat H. Mahdi <sup>3</sup>		
Petroleum Technology Dept., <sup>2</sup> Environmental Research Center, <sup>3</sup> Civil Engineering Dept.,		
University of Technology		
	استراحة	6:00-4:30
	جولة حرة مع وجبة عشاء	10:00-6:00
قاعة رقم 4	الجلسة المسانية الرابعة 2018/11/25	
		<u>.</u>
	أستاذ المساعد الدكتور علي عبار خليف	
	ستاذ المساعد الدكتور جمال محمد حمد	
	nd Identification of Ureolytic Bacteria Isolated from Livestock	3:15-3:00
Soil to Improve the S	Strength of Cement Mortar	
11		
	sin J. Khadhim <sup>1</sup> , Shahlaa E. Ebrahim <sup>1</sup> , Saad H. Ammar <sup>2</sup> al Engineering Department, Baghdad University, Baghdad, Iraq	
	ngineering Department, Al-Nahrain University, Baghdad, Iraq	
		3:30-3:15
ESD 138: Preparation and Study Some Mechanical and Morphological Properties of Ternary Polymer Blends		
Ternary rolymer blends		
<sup>1</sup> Sihamam I. Salih, <sup>1</sup> Wafaa M. Salih and <sup>2</sup> Teeb A. Mohameed		
<sup>1</sup> Materials Engineering Department, University of Technology / Baghdad-Iraq		
<sup>3</sup> Central Organization for Standardization and Quality Control Baghdad, Iraq		
ESD 149: The Infl	3:45-3:30	
Repeated Loading		
	A.E. Al- Hamdani, Marawan M. Hamid, Nada M. Al Hussiny	
	eering Department. University of Technology, Baghdad, Iraq	4.00 2.45
	Gray Relational Analysis to Determine Optimum Process	4:00-3:45
	ing the Characteristics of Polymeric Hybrid Composite by the Friction Stir Process Technique	
wraterials r repared	by the friedon surfrocess rechilique	
Sil	ama I. Salih <sup>1</sup> , Jawad K. Oleiwi <sup>2</sup> , Sajid A. Alkhidhir	
	Materials EngineerIng, University of Technology, Baghdad, Iraq	
	nt of Mechanics, Babylon Technical Institute, Babylon, Iraq	
ESD 81: Response of the Quality of the Potato Tubers to the Addition of the		
Ground of the Palm Residue Compost and the Spraying of the Humic Acid		
Abbas Kh. Mijwel, Adil N. A. Al-Redha, Tarif H. Bresim		
Faculty of Agriculture, University of Al-Qasim Green, College of Technology in Musayyib		
ESD 79: Protect the	4:30-4:15	
	Assessed A. Al Dishassa	
Aymen A. Al-Rubaye Marine Science Center, University of Basrah, Basrah, Iraq		
استراحة المتراحة الم		
	استراحه جولة حرة مع وجبة عشاء	6:00-4:30 10:00-6:00
	جولة كره مع وجبه حساء	10.00-0:00

اليوم الثالث الاثنين 2018/11/26				
الانتقال صباحا بعد الإفطار الى الغردقة				
اليوم الخامس الثلاثاء 2018/11/27				
جلسة حوارية لمناقشة افاق التعاون العلمي بين الوفود المشاركة في المؤتمر	12:00-10:00			
اليوم السادس الأربعاء 2018/11/28				
الجلسة الختامية	12:00-10:00			
التوصيات وتوزيع الشهادات التقديرية				

### لجنة اعداد التوصيات

- 1. الأستاذ الدكتور ثامر جاسم محمد
- 2. الأستاذ الدكتور خالد محمد حسين
- 3. الأستاذ الدكتور أمجد كاظم رسن
- 4. الأستاذ المساعد الدكتور فلاح حسن رحيل
- 5. الأستاذ المساعد الدكتور معن سلمان حسن
- 6. الأستاذ المساعد الدكتور سحر أحمد أمين
- 7. الأستاذ المساعد الدكتور صالح عبد الرضا الصالح