



ENERGY SYSTEMS FOR SUSTAINABLE DEVELOPMENT

Lahore

20~22 May 2015



DAWOOD UNIVERSITY



ESSD-2014



CONFERENCE SECRETARIAT

Dr. Asad U. Khan	Chair
Dr. Aqeel Ahmed Bazmi	Co-Chair
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Dr. Muhammad Saif-ur-Rehman	Member
Dr. Muhammad Rizwan	Organizing Secretary
Mr. Amjad Riaz	Secretary





CONFERENCE VENUE

COMSATS Institute of Information Technology, 1.5 km Defense Road, Off Raiwind Road, Lahore, Pakistan. Tel: +92(042)-111-001-007 Email: ESSD@ciitlahore.edu.pk

LANGUAGE

The official conference language is English. No translation service will be provided.

REGISTRATION HOURS

Tuesday, May 19	5:00 PM – 7:00 PM
Wednesday, May 20	8:30 AM – 9:30 AM

INTERNET ACCESS

No Internet Service is available inside conference rooms.





PROGRAM

The technical program includes invited plenary and keynote lectures, oral sessions and poster presentations.

ORAL PRESENTATIONS

Oral presentations are scheduled for 15 minutes of presentation and 5 minutes of Q&A.

All presentations should be in PowerPoint or PDF formats. A laptop and LCD projector will be available in all sessions. Each presenter is requested to bring the presentation in a USB storage device and upload it to the laptop before the session begins. All presentations will be destroyed at the end of the session.

We urge all presenters to use the provided laptop for presentation so as to minimize changeover times.

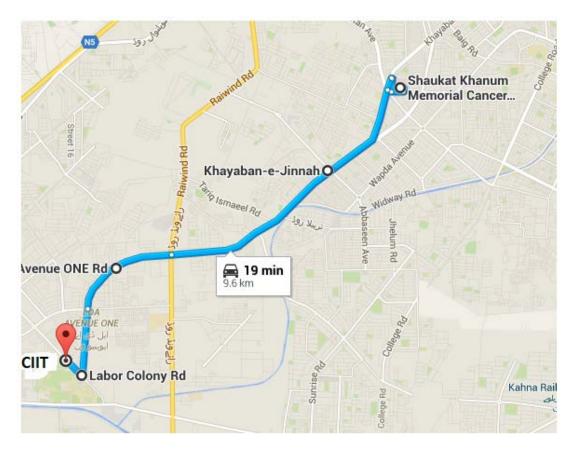
Since we have a very tight and fully packed program, we request all the delegates to be punctual and respect the allocated timeslots.

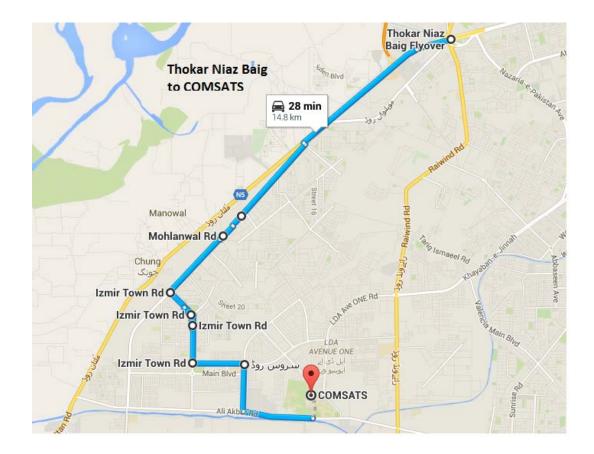
In case of absence of some presenter, next presenter shall be called for presentation.

POSTER SESSION

The dimensions of the poster board will be 594 mm (Width) x 841 mm (Height) (or equivalently 23.3 in (W) x 35 in (H)). This corresponds to A1 Size in portrait layout. Posters are to be put up according to the assigned Paper IDs shown in the detailed program. The posters can be put up from Tuesday, 19th May 2015 06:00 PM, and must be removed after the poster session. Posters left on the boards will be taken down and disposed of.

Road Map of Conference Venue





Plenary Speakers





Prof. Dr. Shahid Munir

University of the Punjab 10:40 AM – 11:10 AM, Wednesday, May 20 Indigenous Coal for Clean Power Production

> Mr. Robert Schenk SMEC 11:40 AM – 12:10 PM, Wednesday, May 20 A Road Map to Energy Efficiency



Prof. Dr. Khanji Harijan
Mehran University of Engineering & Technology
12:10 PM – 12:40 PM, Wednesday, May 20

Prof. Dr. Muhamamd Nasim Institute of Southern Punjab

12:40 PM – 01:10 PM, Wednesday, May 20







Mr. Khalid Saeed

COMSATS Institute of Information Technology

02:15 PM – 02:45 PM, Wednesday, May 20, Seminar Room-A block

Dr. Muhammad Shahbaz COMSATS Institute of Information Technology

04:25 Pm – 04:55 PM, Wednesday, May 20, Seminar Room-A block Measuring Economic Cost of Electricity Shortage: Current Challenges and Future Prospects in Pakistan



Prof. Dr. Nadeem Feroz
University of Engineering & Technology
09:30 PM – 10:00 PM, Thursday, May 21, Seminar Room-A block

Dr. Muhammad Awais Lahore University of Management Sciences

09:30 PM – 10:00 PM, Thursday, May 21, Room # A-6, A block

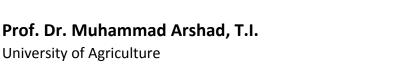
Prof. Dr. Muhammad Abid COMSATS Institute of Information Technology

11:40 AM – 12:10 PM, Thursday, May 21, Seminar Room-A block

Prof. Dr. Asif Ali Qaiser University of Engineering & Technology 02:00 PM – 02:30 PM, Thursday, May 21, Seminar Room-A block

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Keynote Speakers



02:00 PM - 02:30 PM, Thursday, May 21, Room # A-6, A block

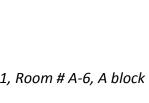
Prof. Dr. Tahir Jamil University of the Punjab 04:30 PM – 05:00 PM, Thursday, May 21, Seminar Room-A block

Prof. Dr. Firdaus-E-Bareen University of the Punjab 04:30 PM - 05:00 PM, Thursday, May 21, Room # A-6, A block

Chelate-Assisted Heavy Metal Phytoextraction

Prof. Dr. Jawaid Askari Dawood University of Engineering & Technology

09:00 AM – 09:30 AM, Friday, May 22, Seminar Room-A block Sustainability and Energy Independence











ESSD

2014



Tuesday, May 19

17:00 – 19:00	Registration

Wednesday, May 20

08.30 - 09.30	Registration	
09:30 - 10:40	Inauguration/ Opening Ceremony	
	10:10 Welcome Address by Conferen	nce Chair
	10:20 Inaugural Address by the Chief	f Guest
	10:40 Address by Director CIIT, Laho	re
10:40 - 11:10	Plenary 1	
	INDIGENOUS COAL FOR CLEAN POWER PRO	DUCTION
	Shahid Munir (University of the Punjab)	
11:10 - 11:40	Coffee/Tea Break	
11:40 - 12:10	Plenary 2	
	A ROAD MAP TO ENERGY EFFICIENCY	
	Robert Schenk (<i>SMEC</i>)	
12:10 - 12:40	Plenary 3	
	Khanji Harijan (Mehran University of Engg &	Tech)
12:40 - 13:10	Plenary 4	
	Muhammad Nasim (Institute of Southern Pur	njab)
13:00 - 14:15	Lunch Break	
	Technical Session-A	Seminar Room-A block
	Title : Energy Management, Policy 8	& Economics
	Chair : Shahid Munir	
14:15 – 14:45	<u>ED-120</u>	
	BRIQUETTING OF CHAMLANG COAL FINES WA	ASTE USING MOLASSES
		Javaid Akhtar

Detailed Program

14.45-15.05	<u>ED-46</u>	
	MICROBUBBLE MEDIATED MASS TRANSFER- A COST EFFECTIVE WAY TO INCREASE PROCESS EFFICIENCY	
		Fahad Rehman
15.05-15.25	<u>ED-06</u>	
	ECONOMIC ANALYSIS OF ALTERNATE ENERGY SECTOR: AN ANALYSIS OF	TIVES WITH SPECIAL REFERENCE TO FACTORS MATRIX
		Ejaz Gul
15.25-15.45	<u>ED-14</u>	
	ECONOMIC ANALYSIS AND PAYBAC THERMAL DESALINATION SYSTEM	K PERIOD EVALUATION OF A SOLAR USING PASSIVE VACUUM
		Muhammad Ihsan Ul Haq
15.45-16.05	<u>ED-20</u>	
	ENERGY CONSUMPTION IN THE BU	ILDING SECTOR IN PAKISTAN
		Irshad Ahmed
16.05-16.25	Tea/Coffee Break	
16.05-16.25	Poster Session – A	
	Venue : Room # A-7, A-Block	
	Technical Session-B	Room: Seminar Room-A block
	Title : Energy Management, Policy & Economics	
	Chair : Muhammad Shahba	az
16.25-16.55	<u>Key Note: (KN-02)</u>	
	MEASURING ECONOMIC COST OF CHALLENGES AND FUTURE PROSPE	ELECTRICITY SHORTAGE: CURRENT
		Muhammad Shahbaz (<i>CIIT</i>)
16.55-17.15	<u>ED-63</u>	
	MAGNETIC REFRIGERATION: AN SYSTEM	ECONOMICAL REFRIGERATION
		Saqib Munawwar
17.15-17.35	<u>ED-48</u>	
	POWER SCHEDULING IN HOME ENI	ERGY MANAGEMENT SYSTEMS
		Akram Rashid



17.35-17.55	<u>ED-65</u>							
	END	OF	LIFE	SCENARIOS	FOR	MUNICIPAL	SOLID	WASTE
	MANA	AGEN	IENT O	F DEFENCE HC	USING	AUTHORITY L	AHORE	
								Azhar Ali

Thursday, May 21

09.00-09.30	Registration		
	Technical Session - C	Room: Seminar Room-A block	
	Title : Energy Systems Des	sign	
	Chair : Nadeem Feroze		
9.30-10.00	<u>Key Note: (KN-03)</u>		
		Nadeem Feroz (<i>UET</i>)	
10.00-10.20	Invited Talk : (IV-01)		
	STUDY OF HYDRODYNAMICS OF BI FLUIDIZATION COLUMN	OMASS-SAND MIXTURE IN A COLD	
		Mahmood Saleem (PU)	
10.20-10.40	<u>ED-93</u>		
	SMART USE OF ENERGY BY USING HEAT INTEGRATION IN METHANOL PLANT: SIMULATED ON ASPEN HYSYS		
		Asfa Javed	
10.40-11.00	<u>ED-24</u>		
	PYROLYSIS OF BIOMASS: AN EXPERIMENTAL STUDY OF THE EFFECT OF FEED PARTICLE SIZE ON YIELD OF BIO-OIL		
	Rana Mujahid Saleem		
11.00-11.20	<u>ED-13</u>		
	DESIGN AND FABRICATION OF CO	OMPRESSED AIR VEHICLE ENGINE	
		Bilal Yousaf	
	Technical Session - D	Room: Room # A-3, A block	
	Title : Bioenergy		
	Chair : Muhammad Awais		
9.30-10.00	<u>Key Note : (KN-07)</u>		
		Muhammad Awais (LUMS)	

10.00-10.20			
	<u>ED-53</u>		
	GREEN BUILDING: AN EFFICIENT AND ECONOMICAL CONCEPT		
	Saqib Munawwar		
10.20-10.40	Invited Talk : (IV-02)		
	INDUSTRIAL SOLUTIONS FOR ENER	GY CONSERVATION AND PROCESS	
		Usman Khalid (Avanceon)	
10.40-11.00	<u>ED-111</u>		
	PRODUCTION OF BIOPLASTIC A	N INNOVATIVE TECHNIQUE FOR	
	BIODEGRADABLE AND BIOCOMPA	TIBLE POLYMERS	
		Gugan Shafi	
11.00-11.20	Invited Talk (IV-03)		
		SIFICATION THROUGH CHEMICAL	
	LOOPING COMBUSTION		
		Muhammad Younas	
11.20-11.40	Tea/Coffee Break		
	Technical Session - E	Room: Seminar Room-A block	
	Title : Renewable Energy	Technologies	
	Chair : Muhammad Abid		
11.40-12.10	Key Note: (KN-04)		
		Muhammad Abid (<i>CIIT</i>)	
12.10-12.30	<u>ED-08</u>	Muhammad Abid (<i>CIIT</i>)	
12.10-12.30		Muhammad Abid (<i>CIIT</i>) MOULAR FLOATING DOME TYPE	
12.10-12.30		MOULAR FLOATING DOME TYPE	
12.10-12.30	DEVELOPMENT OF INDIGENOUS	MOULAR FLOATING DOME TYPE	
12.10-12.30 12.30-12.50	DEVELOPMENT OF INDIGENOUS	MOULAR FLOATING DOME TYPE E IN PAKISTAN	
	DEVELOPMENT OF INDIGENOUS BIOGAS PLANT FOR DOMESTIC USE ED-05 BIOFUEL PRODUCTION COMBINED	MOULAR FLOATING DOME TYPE E IN PAKISTAN	
	DEVELOPMENT OF INDIGENOUS BIOGAS PLANT FOR DOMESTIC USE ED-05	MOULAR FLOATING DOME TYPE E IN PAKISTAN Kashif Mushtaq	
12.30-12.50	DEVELOPMENT OF INDIGENOUS BIOGAS PLANT FOR DOMESTIC USE ED-05 BIOFUEL PRODUCTION COMBINED	MOULAR FLOATING DOME TYPE E IN PAKISTAN Kashif Mushtaq	
	DEVELOPMENT OF INDIGENOUS BIOGAS PLANT FOR DOMESTIC USE ED-05 BIOFUEL PRODUCTION COMBINED	MOULAR FLOATING DOME TYPE E IN PAKISTAN Kashif Mushtaq	
12.30-12.50	DEVELOPMENT OF INDIGENOUS BIOGAS PLANT FOR DOMESTIC USE ED-05 BIOFUEL PRODUCTION COMBINED THROUGH ALGAE ED-108 OPTIMIZATION OF BIOGAS PRODUCTION	MOULAR FLOATING DOME TYPE E IN PAKISTAN Kashif Mushtaq O WITH WASTEWATER TREATMENT Agha Danish Ilyas	
12.30-12.50	DEVELOPMENT OF INDIGENOUS BIOGAS PLANT FOR DOMESTIC USE ED-05 BIOFUEL PRODUCTION COMBINED THROUGH ALGAE ED-108	MOULAR FLOATING DOME TYPE E IN PAKISTAN Kashif Mushtaq O WITH WASTEWATER TREATMENT Agha Danish Ilyas	

	Technical Ses	sion - K	Room: Room # A-3, A block	
	Title :	Energy & Environm	ent	
	Chair :	Arifa Tahir		
11.40-12.10	Invited Talk (<u>IV-13)</u>		
		OF DOMESTIC SEWA GY AND BIO FERTILIZE	GE SLUDGE FOR THE PRODUCTION ER	
			Arifa Tahir	
12.10-12.30	Invited Talk (<u>IV-04)</u>		
			Y AND ITS IMPACTS ON AIR CRAFTS L AIRPORT LAHORE, PAKISTAN	
			Abdul Qadir	
12.30-12.50	<u>ED-113</u>			
	ASSESSMENT OF GROWTH AND CARBON FIXATION POTENTIAL OF BOTRYDIOPSIS ARHIZA IN A PHOTOTROPHIC SYSTEM UNDER NATIVE ENVIRONMENTAL CONDITIONS			
		Umarah Mubeen		
12.50-13.10	<u>ED-114</u>			
	ANAEROBIC DIGESTION OF ORGANIC SOLID WASTE IN A SOLAR BIOREACTOR AND FERTILIZER PERSPECTIVES OF ITS RESIDUE			
	Sana Irshad			
13.10-14.00	Lunch Break			
	Technical Ses	sion-F	Room: Seminar Room-A block	
	Title :	Membrane Techno	logy & Application	
	Chair :	Asif Ali Qaiser		
14.00-14.30	Key Note : (K	<u>N-05)</u>		
			Asif Ali Qaiser (UET)	
14.30-14.50	Invited Talk :	<u>(IV-05)</u>		
	ED 422		Rahma Tamime (<i>LSE</i>)	
14.50-15.10		OF CO2 REMOVAL TH	ROUGH ALKANOLAMINE SOLUTION	
			Amjad Ali	

Detailed Program

15.10-15.30	<u>ED-43</u>	
	CONCENTRATION OF POMEGRA MEMBRANE CONTACTOR THROUG	NATE JUICE IN HOLLOW FIBER TH OSMOTIC DISTILLATION
		Qaiser Ali Khan
15.30-15.50	<u>ED-103</u>	
	SYNTHESIS OF ELECTROCHEMICAL ON INTRINSICALLY CONDUCTING P	COMPOSITE MEMBRANES BASED
		Muhammad Aamir Shehzad
15.50-16.10	<u>ED-47</u>	
	ZIFS, A POTENTIAL FILLER FOR MIX	ED MATRIX MEMBRANES
		Muhammad Tayub Raza
	Technical Session - G	Room: Room # A-3, A block
	Title : Energy & Environme	ent
	Chair : Muhammad Arshad	i (T.I.)
<u>14.00-14.30</u>	<u>Key Note : (KN-08)</u>	
		Muhammad Arshad, T.I. (UAF)
14.30-14.50	<u>ED-107</u>	
	SUSTAINABLE PRODUCTION OF BIO BACTERIAL CELLULASES	DETHANOL BY USING AUGMENTED
		Maham Tabassum
14.50-15.10	<u>ED-110</u>	
	HIERARCHICAL CHROMIUM BION KASUR TANNERY WASTE WATER TH	MAGNIFICATION STUDY AROUND REATMENT PLANT
		Tahira Shouket
15.10-15.30	<u>ED-106</u>	
	SUSTAINABLE MANAGEMENT OF	PARTHENIUM HYSTEROPHORUS
		Qurat UI Ain
15.30-15.50	<u>ED-22</u>	
		CONSERVATION: EXPLORING LINK ION AND WOMEN ECONOMIC

	Saima Imran
15.50-16.10	ED-23 POSTULATION OF ENERGY CONSERVATION LITERACY IN THE HIGHER EDUCATION STUDENTS OF ABBOTTABAD, PAKISTAN Neelam Wathra
16.10-16.30	Tea/Coffee Break
16.10-16.30	Poster Session – B Venue : Room # A-7, A-Block
	Technical Session-H Room: Seminar Room-A block
	Title :Material Science & EngineeringChair :Saeed Gul (UET, Peshawar)
16.30-17.00	<u>Key Note : (KN-06)</u> Tahir Jamil (<i>PU</i>)
17.00-17.20	<u>Invited Talk : (IV -10)</u> Rizwan Raza (<i>CIIT</i>)
17.20-17.40	ED-41 COMPOSITE POLYMER ELECTROLYTE MEMBRANES FOR LOW TEMPERATURE (MICROBIAL) FUEL CELLS Tauqir Ali Sherazi
17.40-18.00	Invited Talk : (IV-06) Asma Tufail Shah (<i>CIIT</i>)
18.00-18.20	ED-17 ALTERNATIVE TO OIL & GAS; WIND POWER IN PAKISTAN Faisal Ashfaq
	Technical Session-IRoom: Room # A-3, A block
	Title : Energy & Environment Chair : Firdaus-E-Bareen
16.30-17.00	<u>Key Note : (KN-09)</u> Firdaus-E-Bareen (<i>PU</i>)

17.00-17.20	Invited Talk : (IV-07)
	SOCIO-ECONOMICS PROSPECTS OF SOLAR TECHNOLOGY UTILIZATION
	Musarat Jabeen (<i>CIIT</i>)
17.20-17.40	<u>ED-85</u>
	HEAVY METAL REMOVAL FROM INDUSTRIAL WASTEWATER BY CONSTRUCTED WETLANDS AND THE POTENTIAL RE-USE OF TREATED EFFLUENT FOR IRRIGATION
	Saad Shahid
17.40-18.00	ED-105
	SUSTAINABLE MANAGEMENT OF SOIL REQUIREMENTS IN RICE CROP SYSTEM BY COMBINED APPLICATION OF BIOCHAR & COMPOST
	Sidrah Saleem
18.00-18.20	<u>ED-09</u>
	SHALE GAS: AN ULTIMATE POWER DESTINATION OF PAKISTAN
	Sadaqat Ali
18.20-18.40	<u>ED-19</u>
	PHYSICO-CHEMICAL PROFILE OF MALIR RIVER AND CHINNA CREEK
	Sadia Tariq

Friday, May 22

	Technical Session-J	Room: Seminar Room-A block
	Title : Power Systems	
	Chair : Jawid Askari	
09.00-09.30	Keynote talk: (KN-10)	
		Jawaid Askari
09.30-09.50	Invited Talk : (IV-08)	
	BIOMASS POWER GENERATION IN	PUNJAB PROVINCE OF PAKISTAN
		Ghaffar Dogar (CIIT)

09.50-10.10	ED-60	
	APPLICATION OF FINITE VOLUME S TO A WATER QUALITY MODEL	SCHEME ON UNSTRUCTURED GRID
		Sidrah Ahmed
10.10-10.30	<u>ED-124</u>	
	IMPROVING STEAM POWER PLA OPERATING CONDITIONS OF THER	
		Naveed Husnain
10.30-10.50	<u>ED-75</u>	
	ROLE OF ICT (INFORMATION AND C IN MAKING SMART ENERGY VIABLE	
		Faran Hameed
10.50-11.10	Invited Talk : (IV-09)	
	Ayesha Jami	
11.10-11.30	<u>ED-78</u>	
OVERVIEW OF BACNET: AN EFFICIENT AND ECONOMIC		CIENT AND ECONOMICAL ASHRAE
	Saqib Munawwar	
	Technical Session-L	Room: Room # A-3, A block
	Title : Energy & Sustainabi	ility
	Chair : Robina Farooq	
09.30-09.50	Invited Talk (IV-11)	
		IZED MUNICIPAL SOLID WASTE ENVIRONMENTAL CAPITAL FOR
		Muhammad Shafiq
09.50-10.10	Invited Talk (IV-12)	
	CHALLENGES IN PHYTOREMEDIATIO MANAGEMENT; POTENTIAL ROLE O HEAVY METAL ALLEVIATION	
		Aisha Nazir

Detailed Program

10.10-10.30	<u>ED-123</u>	
	ECONOMIC VIABILITY OF SOLAR PV AGRICULTURE GROWTH IN PAKIST	
		Aamir Mehmood
10.30-10.50	ED-129	
	TO ADVANCE AND PUBLICIZE A B ESTABLISH A COMMERCIAL BIOC RENEWABLE ENERGY RESOURCE	IOGAS WITH THE VITAL GOAL TO GAS SECTOR IN PAKISTAN AS A
		Neelofar Shaukat Khan
10.50-11.10	<u>ED-137</u>	
	PRODUCTION OF SUSTAINABLE BI JATROPHA SEEDS	ODIESEL FROM LOCALLY GROWN
		Muhammad Tahir Khattak
11.10-11.30	Invited Talk (IV-14)	
		Moinuddin Ghauri
11.30-11.50	Tea/Coffee Break	
	Technical Session-M	Room: Seminar Room-A block
	Title : Power Systems	
	Chair : Jawid Askari	
11.50-12.10	<u>ED-87</u>	
	OPTIMIZING MULTI-KNAPSACK SCHEDULING USING BINARY INTEG	
		Umer Fiaz Abbasi
12.10-12.30	ED-26	
	GENERATION EXPANSION PLANNIN	IG CONSIDERING INTEGRATION OF
		Asad Waqar
12.30-12.50	<u>ED-27</u>	
	USE OF DENDROCHRONOLOGY IN F	HYDRO POWER
		Mohammad Amjad Sabir

12.50-13.10	Invited Talk (IV-15)	
	OPTICAL PROPERTIES OF CdS QUANTUM DOTS FOR OPTOELECTRONIC DEVICES	
	Samia Aslam	
13.10-14.30	Lunch Break	
14.30-15.00	Poster Session – C	
	Venue : Room # A-7, A-Block	
15.00	Closing Ceremony and Awards Distribution	



16.05-16.25 Poster Session – A		
		Venue : Room # A-7, A-Block
29	Protein Profil	ing of Various Plant Tissues In Response To Chromium Stress In Maize
		Rushaan Kiani
44	Elimination o	f Textile Dye (Reactive Turquoise Blue) through Nanotechnology
		Farah Nadeem
49		fect of 2,4- Dichlorophenoxy acetic acid and Benzyl amino purine on vitro growth of Foeniculum vulgare Mill. from leaf explants
		Iqra Rasheed
55	Optimal clarit operation mo	fication of apple juice using crossflow microfiltration under different odes
		Fawad Khan
42	Protocols for	the Synthesis of Hoechst Analogues and their Structural Elucidation
		Aqeel Ahmad Khan
36	Unveiling the	role of indigenous bacteria in salinity stress alleviation in celery
		Wajeeha Afzal
54	Mixing Chara Tomography	cteristics of External Loop Airlift Bioreactor Using Electrical Resistance (ERT)
		Mian Hamood Ur Rehman
116	Distribution of change in Pal	of sand fly a vector of Leishmaniasis with special reference to climate kistan
		Ayesha Akram
117	Use of Eresid	spider web as an indicator of atmospheric deposition of pollutants
		Saba Nadeem
102	Comparative	study of proximate analysis of Bt and non Bt rice
		Shabnum Shaheen
112	Wild vegetab	les; An Alternative source of food

Nidaa Harun





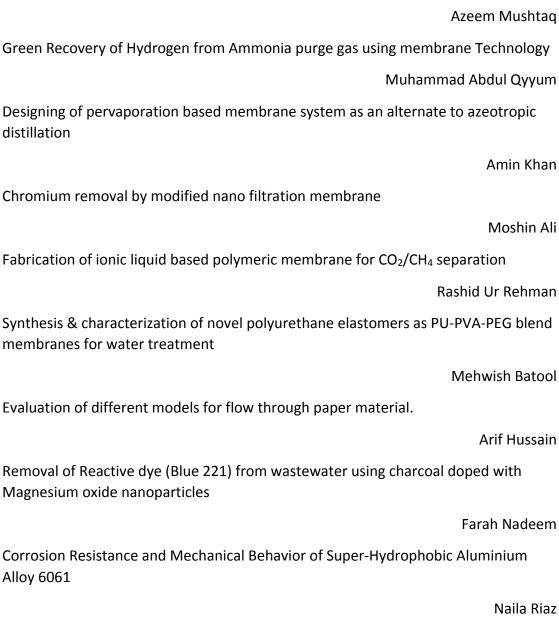
76	Prevalence of Sick Building Syndrome (SBS) in centralized air-conditioned building by investigating the Indoor Air Quality in Lahore.
	Ayesha Shahid
90	Leaching and recovery of precious metals from e-waste
	Umair Javed
98	Biodecomposition of textile reactive dyes by Rotating biological disc contractor (RBC)
	Masoom Fatima
99	Treatment of reactive black-5 azo-dye in suspended and attached growth batch bioreactor using Pseudomonas aeruginosa strain ZM24
	Zahid Maqbool
101	A Study on In Vitro Proliferation of Petunia Hybrida Vilm
	Qudsia Firdous
104	An Efficient Method of Extraction of Phenolics and Flavonoids from Cassia occidentalis
	Sumera Javad
73	Effect of Salinity and different media on growth of Oryza sativa L. and Triticum aestivum L.
	Mariya Rashid
79	MgO and ZnO doped Montmorillonite Nano-composite used for the Efficient Removal of Dyes from the Textile Wastewater
	Ambreen Lateef
81	Removal of Reactive Dye from industrial wastewater by using Kaolinite Nano- Particles dopped with Zinc and Copper-Cadmium
	Maria Abdullah Butt
82	Color removal from industrial wastewater by using Zinc dopped green Nano-Particles
	Maham Shahid
84	A Sustainable Method to Produce Uv Resistant, Water Repellent ,Dust Repellent AND Antibacterial Textile by Nano Tio2 Coating
	Zahra Khan
86	Novel self cleaning and sustainable tents for pilgrimage and tourists

Zahra Khan



16.10-16.30 F		Poster Session – B
		Venue : Room # A-7, A-Block
30	Optimization	of Biogas Resources for Pakistan
		Hafiz Muhammad Uzair
31	Optimization	of Renewable Energy Mix for Pakistan
		Zaman Tahir
35		f rice husk biomass to synthesize d-xylose for the effective utilization of optimization of the involved process parameters.
		Ashfaq Ahmed
40	316L Stainles	s Steel as Sustainable Solution for Green Energy
		Hasan Qayyum Chohan
70	Development	t of Bubbling Fluidized Bed coal Gasifier
		Muhammad Shoaib
92	Atioxidative p	phytochemical additives for sustainable and green biofuels
		Iram Nadeem
51	Prospects of	Terminalia bellerica Roxb. Extracts as Green Source of Antioxidant
		Lubna Sherin
113		of growth and carbon fixation potential of Botrydiopsis arhiza in a system under native environmental conditions
		Umarah Mubeen
28	An Overview Systems	of V2G Technology in the Development of Sustainable Electric Energy
		Mohammad Faizan
57	Pressure-Reta	arded Osmosis - A potential solution of energy for power scarcity.
		Muhammad Kashif Ur Rehman
91	Production o	f Biodiesel from Castor oil using micro bubbles

Muhammad Shahzad



- 119 Fabrication of Dust and Water Repellent Glass for Super hydrophobic Coatings

Umbreen Fatima

Study of Chemically Synthesized Rare-earth Terbium Substituted BaM Hexagonal 118 ferrites

Muhammad Imran Asghar

62 Photocatalytical degradation of Congo Red (CR) dye via nano Titanium dioxide coated glass beads exposed to UV light irradiation

Khurram Tahir

Poster Session

ESSD 2014

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61

97

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33

45

95

Alloy 6061

distillation

34 Polysulfone and functionalized mesoporous MCM-41 nanosilica mixed matrix membranes for CO2 separations

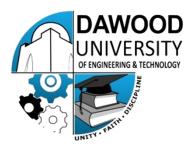
Azeem Mushtaq



14.3	0-15.00	Poster Session – C
		Venue : Room # A-7, A-Block
121	The Impact o	f Emerging Technologies on Human Values
		Kanwal Bilal
126	Estimation of Constructed	Pollution Load in The Lahore Branch Canal and its remediation through
		Iqra Javaid
127	Use of hybrid tannery wast	constructed wetland systems with some native hydrophytes to treat e water
		Rubab Khalid
128	Improving pe	rformance of copper in marine environment
		Tahir Saif
133	Extraction an	d Characterization of Biofuel from Jatropha Curcus
		Arifa Tahir
136	Prospects of ⁻	Terminalia bellerica Roxb. Extracts as Green Source of Antioxidants
		Lubna Sherin
138	•	of Solar Systems: a systemic review on the evaluation of socio nsideration by business analysis tools
		Fareeha Javaid
140	Production of	f Bio Oil from Bio Mass
		Hassan Tariq
141	Studies on th from Wheat S	e Microbial Production of Saccharilytic Enzyme for Ethanol Production Straw
		Arifa Tahir
142	Concentratio Osmotic Evap	n of Pomegranate Juice in Hollow Fibre Membrane Contactor through poration
		Q. A. Khan
143	Sustainable D	evelopment and the Chemical Industry
		Riaz Ud Din

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