



ICET VIEW

CHEMVOICE

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CLIPS

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Al-Quran (Surah Al-Anaam 50):

Tell them, O Muhammad, "I do not claim that I possess the treasures of Allah nor that I know the "unseen", nor do I claim that I am an angel. I only follow the Revelation that is sent down to me".

History of Chemvoice:

Chemvoice is the Newsletter of Institute of Chemical Engineering & Technology, being issued after every 3 months. It was started by a team comprising of students namely Jawad Sheikh, Syed Farhan Ali and Muhammad Waqas under the supervision of Prof. Dr. Mahmood Saleem. Its first issue was published in June 2010.

Once again under the supervision of Prof. Dr. Mahmood Saleem a new energetic and active

Summer

Vacations ended and classes of all semesters have started at the institute from 23rd September 2012.

student's team has started issuing Chemvoice after every 3 months. For more details see the last page.

Message from Worthy Vice-Chancellor:

Prof. Dr. Mujahid Kamran

The University of the Punjab is the parent University of all universities of Pakistan. It has maintained its excellence in education, training and research in various fields of arts, social sciences, engineering and technology.

The University aims at high standards of quality, education compatible with national needs and comparable to international universities of high repute abroad. It has always attracted talented students coming from all walks of life and regions within its territorial limits and all provinces of Pakistan under exchange program.

The University recognizes an integrated and inter-disciplinary approach to coordinated and cooperative teaching among the various disciplines belonging to different faculties of constituent parts of the University under one umbrella. The Faculty of Engineering & Technology is one of the most developed faculties of the University. It has developed since 1917 with a long history of dedicated and devoted teachers and researchers in various fields of engineering & Technology. The Alumni of this Institution are serving at higher professional positions in industrial/research organizations and universities at home and abroad.

The Faculty comprises of Institute of Chemical Engineering & Technology, College of Engineering & Emerging Technologies, Institute of Quality and Technology Management, Centre for Coal Technology and Department of Textile Engineering, which offer various engineering courses at graduate and post-graduate levels. Engineering Research Division is operative to carry out research and development activity in all the discipline under this Faculty.

The University is committed to providing best possible facilities in terms of Faculty staff, laboratories, libraries and environment for R & D activities leading to higher degrees. I hope that the talented candidates will be joining the engineering degree courses with the strong commitment to keep up the tradition of this Institution and help maintain the flag of the University high in the sky.

Prof. Dr. Z.H Rizvi Retired from ICET Directorship:

Prof. Dr. Syed Zahoor-ul-hassan Rizvi has retired from the directorship of Institute of Chemical Engineering & Technology on 31st May 2012. All teachers celebrated a retirement party to honor his years of dedicated work. Students also thanked him for his remarkable services as teacher & director and sent their very best wishes for a happy retirement. He joined ICET as first year BSc Chemical Engineering student in 1971 and graduated in 1975. He left for higher studies to UK and did masters from The University of Bradford in 1982. He did P.H.D in Chemical Engineering from University of Leeds in 1990. His field of specialization is "Transport Phenomenon and Liquid-Liquid



Extraction Processes". He won the Research event of the year award in 1991 at UK, University best teacher award, Sitara-e-Pakistan Gold Medal in September 2011 and Quaid-e-Azam Gold Medal in July 2011. He became director of Institute of Chemical Engineering & Technology in January 2008 and retired as director on 31st May 2012. His spectacular directorship has changed the outlook of the Institute which is highly admired by all stakeholders.

3rd Merit List of Undergraduate Admissions for session 2012-2013:



<u>Discipline</u>	<u>F.Sc. Basis</u>	<u>B.Sc. Basis</u>	<u>Diploma Basis</u>
Chemical Engineering	75.852	64.450	65.859
Chemical Engineering (P & G)	75.741	59.55	63.175
Metallurgy & Materials Engg	75.189	59.550	62.575
Electrical Engineering	75.520	68.159	62.625
Industrial Engg	75.025		

New Director ICET- Prof. Dr. Aamir Ijaz:

Prof. Dr. Aamir Ijaz has taken charge as director Institute of Chemical Engineering and Technology w.e.f 1st June, 2012. Earlier he was working as Director Institute of Quality and Technology Management from July 2009 to May 2012. He did B.Sc. in Chemical Engineering from University of the Punjab in 1983. He did M.Sc. in Nuclear Engineering from Quaid-e-Azam University Islamabad. Then he went to U.S.A for higher studies and completed M.Sc. in Nuclear and Energy Engineering from The University of Arizona, Tucson, U.S.A. He did P.H.D in 1993 from University of London, UK.



Message to Students:

Student's life is really carefree life, so they have to utilize it fully and spend their time in learning. Please be a good citizen, be tolerant to your fellow beings whether you are in your home or in the University.

Professional Development Seminar:

- A seminar on "Catalyst Designing, Synthesis, characterization and product analysis" was held on 5 Dec 2012 in ICET seminar hall. The speaker, Dr. Muhammad Hasnain Haider from Cardiff University UK, gave informative lecture on Catalyst designing, reactor designing, testing and related topics to students and researchers.
- On 6 December 2012, Mr. Anjum Baig from FFC gave lecture on industrial safety, Hazards Identification, Risk Assessment & Control, in ICET seminar hall. It was highly enjoyed and admired by students and teachers.



IQBAL Day at ICET:

On 9th November 2012, an event was held in Institute of Chemical Engineering Technology, University of the Punjab Lahore to celebrate Iqbal Day. Director ICET Prof. Dr. Amir Ijaz presided over the event. Prof. Dr. Muhammad Ali, Prof. Dr. Mahmood Saleem, Prof. Dr. Abdullah Khan Durrani, Dr. Anwaar, Mrs. Sofia, Mrs. Rabya, Mr. Zaidi and Mr. Nayyar Ali were also present. The event started at 10 a.m. The duties of stage secretary were performed by Mr. Babar Azeem. The event comprised of speech, debate and posters contest. In speeches, students cast a spell over the audience. Quiz Competition was won by team of 4th semester (morning) comprising of Anam Khawaja, Hafiz

M. Zubair, Salman Ijaz and Atta Ur Rehman. In speech competition Bilawal Aslam of 2nd semester (morning) grabbed first position, Salman Ijaz of 4th semester (morning) stood second while Hamza Ayub of 4th semester (evening) was third. In posture competition Nauman Ahmad of 4th semester (morning) was ranked 1st, Haider Niaz of 2nd semester (evening) took second position and Tabinda Aslam of 2nd semester (morning) stood third. Fayyaz Khan Student of 4th semester morning presented 'Kalam e Iqbal' in his melodious voice. At the end, Prof. Dr. Muhammad Ali and Professor Dr. Mahmood Saleem laid stress on the fact that it is essential to study and act upon the

lessons given by Iqbal in his poetry after that winning students were awarded with prizes.



Students of Evening Classes Received Merit Laptops:

Students of evening classes received Merit Laptops on 13th Nov, 2012. The new HP laptops are core i3.



Techno-Spark:

A two days event namely Technospark was held on 12th and 13th of September for ICET students. A team of 5 members was led by Astd. Prof. Mudassar Azam and headed by Prof. Dr. Aamir Ijaz (Director ICET). In this event Lectures on CV formation, Job hunting, time management and others were delivered.

Industrial Internships:

CPDC (Continual Professional Development Cell) has successfully completed the task of managing industrial internships for students of 5th semester (present 6th semester). CPDC will organize an event on Industrial Internships Presentations after 29 Nov, 2012. Students of 6th semester will share their industrial internship experiences in this event in the form of presentations.

CPDC:

Dr. Hafiz M. Anwaar Asghar will be head of CPDC at the Institute, Miss Rabya Aslam, Mr. M. Sarfraz Akram, and Mr.

Muhammad Latif are the members. Prof. Dr. Mahmood Saleem will be the advisor for CPDC.

Future Programs in addition to Internship Presentations planned by CPDC are:

- Seminar on Scholarship hunting for MS leading to P.H.D.
- How to start your own business.
- Process simulation & equipment design using ChemCad.
- Scientific Computing (Numerical Methods using MatLab).
- Workshop on Professional grooming.



- Lecture on Interview skills.
- Technical Lecture.

Toppers:

Following students got maximum GPA in their respective semesters:

Name	GPA	Semester
Hafsa Shahid	4.00	1 st
Irfan Haider	4.00	3 rd
Waqas Iqbal	4.00	5 th

6th Semester Student Research Projects List:

GROUP	PROJECT	SUPERVISOR
CE-M14-17	<i>Hydrogenation of styrole.</i>	<i>Dr. Arshad Chughtai</i>
CE-M23-26	<i>Lead content in paint</i>	<i>Dr. A. K. Durrani</i>
CE-M32-35	<i>Activated carbon from coal</i>	<i>Dr. Syed Nadir</i>
CE-E01-04	<i>Car Paint</i>	<i>Dr. Rafi ullah Khan</i>
CE-E07-12	<i>Combustion of Coal & Biogas</i>	<i>Dr. Mahmood Saleem</i>
CE-E22-25	<i>Di-URON</i>	<i>Dr. Arshad Chughtai</i>
CE-E26-30	<i>Corrosion Inhibitor</i>	<i>Dr. A. K. Durrani</i>
CE-E17-21	<i>Natural Food Color</i>	<i>Dr. Muhammad Ali</i>
CE-E13-16,38	<i>Removal of heavy metals from Industrial waste water by Rice Husk</i>	<i>Dr. Aamir Ijaz</i>
CE-E36-39	<i>Biogas</i>	<i>Dr. Muhammad Ali</i>
PG-M10-13	<i>Fire Extinguisher Preparation</i>	<i>Mr. Mudassar Azam</i>
PG-E01-04	<i>Extraction of Oil from Orange Skin</i>	<i>Dr. H. Anwar Asghar</i>
PG-E09-12	<i>Reclamation of Lube Oil</i>	<i>Mr. Bilal Haider</i>
PG-E14-17	<i>Waste Water Treatment by Parthinium</i>	<i>Miss Rabya Aslam</i>
PG-E18-22	<i>Leaching of Biphenol-A</i>	<i>Miss Sofia Chaudry</i>
PG-E05-08	<i>Fire Extinguisher Preparation</i>	<i>Mr. Mudassar Azam</i>

Vice Chancellor's Young Researcher's Award:

On the advice of worthy Vice Chancellor University of the Punjab, Office of Research Innovation & Commercialization (ORIC) is organizing Young Researcher's Award for the current year (2012-13).

In this program award will be given to the 'researcher' for his outstanding patentable research in the areas of science and technology, having sound industrial and commercial importance. For more details contact Dr. Amir Shafeeq.

Names of some teaching faculty (P.H.D) with their expert area:

<i>Name</i>	<i>Expert Area</i>
Dr. Aamir Ijaz	Filtration, Production & operation management, Nuclear technology and separation processes.
Dr. Mahmood Saleem	Filtration, Gas cleaning, Engineering Thermodynamics
Dr. Rafi ullah Khan	Desulphurization of jet fuel, Fuel & combustion, reaction engineering.
Dr. Amir Shafiq	Simulation, Process integration and intensification
Dr. Muhammad Rashid Usman	Catalysis, Reaction Engineering, Safety, Environment
Dr. Hafiz Anwaar Asghar	Waste Water Treatment, Adsorption, Regeneration Processes
Names of remaining teachers with their expert area would be published in next edition of chemvoice.	

CPDC Activities Calendar for the year 2013:

Sr. No:	CPD Course Title	Dates
1	Introduction To Process Simulation	12 Jan 2013
2	Sustainable Production	9 Feb 2013
3	Research Methodology	13 April 2013
4	Data Analysis	8 June 2013
5	Waste Water Treatment Methods	10 July 2013
6	Quality Management Systems in Process Industries	7 Aug 2013
7	Process Safety/ Hazop Study	21 Aug 2013
8	Improve your Soft Skills	10 Sep 2013
9	Filtration (Gas Cleaning)	19 Oct 2013
10	Production and Operation Management	2 Nov 2013

Z.H. Rizvi Sports Festival 2012:

This year in April sports festival 2012 was dedicated to Prof. Dr. Zahoor-ul-hassan Rizvi. ICET enjoyed the 3 days event with full excitement, enthusiasm and quality management. A large number of events, venues and sponsored companies were observed this time as compared to last years. 3rd semester morning (Present 4th semester morning) was declared the winner of Z.H. Rizvi sports festival 2012, by scoring maximum points.

In spite of very hot and tough conditions, all teachers and students took full participation in making the event successful and memorable. In addition to playing sports they also gave the message of "Dengue Awareness" Astd. Prof. Mudassar Azam appreciated all co-coordinators specially seniors and said, "I am proud of my co-coordinators and depend on them a lot".



Research Projects in ICET:

"Conservation of energy by Designing industrial burner, recuperator, Electrical control loop." : This project is sponsored by SNGPL. Prof Dr. Aamir Ijaz is leading the project team which includes, Prof. Dr. Shahid Munir, Astd, Prof. Mudassar Azam, Engr. Javed Iqbal and Mr. Nabeel Sheikh.

"Research Group on Biomass; "Co-combustion of Biomass in different environment for their thermal and kinetic analysis": This research team is led by Prof. Dr. Shahid Munir, which includes Astd. Prof. Mudassar Azam, Research officer Mr. Ali Nadeem and Dr. Madeeha Batool.

"Research Group on Coal combustion and Gasification": The research team is led by Prof. Dr. Shahid Munir which includes Dr.

Shafkat Nawaz, Miss Sumera, Mr. Naseer sheikh and Astd. Prof. Mudassar Azam.

“Co-combustion of Coal and Waste in CFBC”: First phase of this HEC funded project is completed led by Prof. Dr. Mahmood Saleem.

“Bio-Oil production from Biomass through Fast Pyrolysis”: First phase of this HEC and PU funded project is completed led by Prof. Dr. Mahmood Saleem.

Punjab Government hired Prof. Dr. Shahid Munir as an expert to **“Evaluate feasible study of Coal based power plants in Punjab”**. First meeting for this purpose was held on 26 Sep 2012.

Prof. Dr. Mahmood Saleem delivered lecture in **11th Word Filtration Congress (WFC11)** on 16-20 April, 2012 held in Graz, Austria.

Prof. Dr. Mahmood Saleem attend training workshop on **“Planning and Management of Development Projects”** in Islamabad on 27-31 August, 2012.

Prof. Dr. Mahmood Saleem has published four **Research Papers** in ISI indexed Journals in 2012.

Prof. Dr. Shahid Munir Suggestions Regarding Under Ground Coal Gasification:

Prof. Dr. Shahid Munir succeeded in bringing the government of Pakistan on the right track

for utilization of Thar Coal for power generation.

It was a few months ago when he launched a campaign against the technology of Dr. Samar Mubarakmand, Nuclear scientist of Pakistan. He worked very hard to make people aware of the right strategy to utilize Thar Coal for power generation with the help of seminars, international conferences, Newspaper articles etc. He urged that “open pit mining of Thar Coal for use in



Research Articles of Prof. Dr. Aamir Ijaz Published Recently:

- 1) Impact of TQM practices on operational performance of Public Hospitals: A study of Public Hospitals in Pakistan” International Symposium on Business and Management (ISBM 2012) Hong Kong.
- 2) Improving operational performance of public hospital in Pakistan: A TQM based approach, World Applied Sciences Journal 19 (6):, 2012, 904-913.

pulverized coal power plants” is the right technique and many times better than the

UCG project suggested by Dr. Samar Mubarakmand. Use of UCG technology for Coal based Power Plants in the world is less than one percent

Students Articles and Achievements Section:

INTERESTING CHEMICAL FACTS BY HAROON IFTIKHAR 4TH SEMESTER:

Some of the interesting facts of chemicals are given below.

- If we add lump of salt into a glass full of water, the water level will go down rather than overflowing the glass.



- Lightning strikes produce ozone O_3 which is helpful in strengthening the ozone layer of the atmosphere.



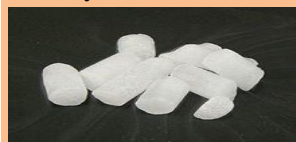
- The human body contains enough carbon to provide lead(graphite) for 9000 pencils.



- Balloons contain helium gas which is lighter than air and keep floating.



- Dry Ice is the solid form of carbon dioxide CO_2 .



- Sound travels 4.4 times faster in water than in air.



- Lightning strikes can reach a temperature of about 30,000 degree Celsius.



- Fire spread more swiftly up hills than down hills because fresh supply of air continuously provide at the upper portion.



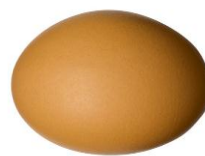
The hardest chemical in our body is the tooth enamel.



- Frogs don't drink water; they only absorb through their skin.
- We can extend the life of rubber bands by storing them in refrigerator.



It is possible for hot water to freeze more quickly than cold water



Fresh egg will sink in fresh water but stale egg will keep on floating. We can't taste food without saliva.

Sadam Fareed from 4th semester says:

"I am gold medalist in wushu-kung-fu under-65 kg category of all Pakistan's inter-university competition Prime Minister Youth Festival held in Islamabad Jinnah Complex Stadium"



Dr. H Anwaar Asghar



Dr. Mahmood Saleem



Dr. Arshad Chughtai



Dr. Rafi ullah Khan



Dr. Sved Nadir

JOIN CHEMVOICE TEAM

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