Message from the Head of Department

I am pleased about the release of the second newsletter by our department. What you would find in it, is a wide variety of projects, research highlights and extracurricular activities, which I think show a healthy department in terms of the quality of the faculty and student body. I am particularly enthusiastic about the approval of dual-degree programs in collaboration with Lancaster University and launch of graduate course in department that hallmark a new era of progress and development. I welcome all new colleagues and those who have re-joined after completing their studies abroad, and have brought international academic exposure with them. I congratulate those who have been awarded scholarships and will soon be leaving to pursue higher degrees. I would like to appreciate the efforts of all the members who have contributed for the development of the department.

Collaboration with Lancaster University

CIIT and Lancaster University, UK have joined forces for combined undergraduate programs in Electrical Engineering, management and computer sciences. CIIT is the first institute in Pakistan to successfully launch dual degree programs and benefit from Ministry of Science and Technology's initiative to hail collaborations with foreign universities.

Launch of Graduate Courses

Electrical Engineering Department has launched classes for Masters of Science in Telecommunication Engineering from Fall 09 Semester. Courses offered in this semester include Probability and Stochastic Processes, Digital Telephony, Queuing Theory for Performance Analysis and RF Systems Engineering.

Establishment of Cisco Networking Academy

The department of Electrical Engineering at CIIT Lahore has been awarded the status of a Cisco Networking Academy by Cisco Systems.

This has been made possible under the guidance of worthy director and honorable HOD EE. It all began in July this year when two lecturers, Muhammad Haleem Junejo and Muhammad Yasin, were nominated for CCAI (Cisco Certified Academy Instructor) training at Cisco Regional Academy, Islamabad.

The Academy has successfully launched its first course CCNA Discovery 4.0 from 2nd November, 2009 with an enrollment of about 30 students and faculty members. Instructors include Haleem Junejo, Muhammad Babar Ali and Muhammad Yasin.
COMVIS's web administrator Mr. Adnan Elahi, has designed the website for highlighting group’s research activities. The website can be accessed at: http://comvis.ciitlahore.edu.pk/

The group had started its work last year under supervision of Dr. Saquib Sarfraz. Group's tremendous struggle and achievement is reflected by its heavy representation in FIT2009, International Conference on Frontiers of Information Technology being held at COMSATS Abbottabad from 16th to 18th December, 2009. Three research papers have been accepted for presentation while only 50 out of 200 papers were accepted, an acceptance rate of 25%. These proceeding of FIT will be included in ACM Digital Library.

1. M.S. Sarfraz, A.Saeed, M. H. Khan, Bayesian Prior Models in Vehicle Make and Model Recognition
2. Z.Riaz, C. Mayer, M.S.Sarfraz, M. Beetz, and B. Radig, Multi Feature Fusion in Advanced Robotics Applications
3. M.H. Khan, I.Kyproais, U. Khan, A Robust Background Subtraction Video Scene Segmentation in Embedded Platforms

In addition, the group also announces proudly the publication of two book chapters and a journal paper by Dr. Saquib Sarfraz.

Research and Publications (continued)

**Book published by EE Faculty member**

Hafiz Muhammad Asif, Assistant Professor EE Department, currently doing his PhD in Wireless Networks at Lancaster University UK, published his first book titled:


This is another great achievement by a EE Faculty member and a matter of pride for EE Department and COMSATS.

**Mobile Communication and Networks Research Group**

Dr. Ali Nawaz Khan, MCN Research Group CIIT will be attending **FIT 2009** with following **3 research papers** to his credit:


**MEMS Research**

Mr. Shuja is the Principal author and will attend the two conferences: **ICSCT 2009 in South Korea** and **IEEE-NEMS 2010 in China** to present following papers:


**Electric Power Systems Research Group**

Mr. Kashif Imran was principal author in a journal paper and conference paper this year.


Training Workshop: FPGAs, From Scratch

A two-day training workshop on Field Programmable Gate Arrays was organized by IEEE Student Chapter starting from 3rd Nov, 2009. Mr. Usman Rafique, Lecturer EE Department introduced the students to the promising and innovative field of Reconfigurable Computing and the theoretical concepts introduced were supplemented by hand-on experience on Xilinx Spartan FPGAs.

Seminar: Learning Assembly and Exploring Intel Processors using "Debug"

A seminar aimed at introducing the audience with Intel family of microprocessors and their programming using assembly language and features of debug was conducted by Mr. Muhammad Farooq-i-Azam, Assistant Professor EE Department, on Tuesday, 6th October, 2009. Arrangements were made by local chapter of IEEE.

Annual Aftar Party

Annual Aftar party is a tradition of EE Department. Every year, during Ramzan, faculty members get together and share the sanctifying moments of Iftar.

This year the annual aftar party arranged at DeSOM Defense Mess, Lahore Cantt on Wednesday, 16th September 2009. Faculty members had a great time together. There was lots of good food, fun, and laughs. All appreciated the apt arrangements made possible by efforts of Mr. Adil Humayun Khan.

Saeed Anwar speaks at a Seminar

The Islamic Society of Electrical Engineering Department, IQRA, organized a lecture on "How to Become a Practicing Muslim" on Wednesday 16th September, 2009. The lecture was delivered by Saeed Anwar (Former Cricketer). The speaker threw light on the various aspects of the Islamic teachings and practices a Muslim should follow. A big audience attended the lecture with great enthusiasm and benefitted from the knowledge of the famous speaker.

CambridgeDocs interacts with EE students

In a Seminar arranged by Mr. Ahmad Mudassar, Assistant Professor EE, Senior Managers of CambridgeDocs Pvt. Ltd briefly described about their ongoing projects, distributed the company brochures and after interacting with EE students the technical managers showed interest to hire the shining ones.
EE Congratulates!!!
Mr. Haroon Ahmad Khan*
Mr. Aamir Rasheed Chaudry* &
Mr. Shahid Ayub**
on being awarded the Lancaster
University’s Chancellor’s
Scholarship* and CIIT FDP **
for PhD in UK.

Dr. Sobia Baig
Dr. Sobia Baig recently joined EE Department as an Assistant Professor. She has previously worked in Ghulam Ishaq Khan Institute of Technology as an Assistant Professor in the Faculty of Electronic Engineering. Her research interests include multcarrier modulation techniques and application of wavelet based modulation techniques in the wireline DSL and power line communication networks. She is a regular reviewer of the IEEE Magazine, journal and letters on Communication and Signal Processing. She is an HEC approved PhD Supervisor.

Muhammad Shuja Khan
Mr. Shuja recently joined Electrical Engineering Department as a Lecturer after completing MS Electronic Engineering from GIK Institute, Swabi. His MS research focused on MEMS Inertial Sensors for automobile applications and proposed a novel design of 3DOF MEMS Capacitive Accelerometer. His research interests include Bio-MEMS/NEMS sensors.

Faculty re-joining after completion of higher studies

Atif Shehzad
MS Electronics
Univ. of Leeds, UK

Saqib Salahuddin
MS Microelectronics
Univ. of Southampton, UK

Muhammad Jawad
MS Advanced Control Systems
Univ. of Manchester, UK

Sadaf Pervaiz
MS Mobile Communication
Surrey Univ., UK

Lab Engineers and Research Assistants who joined EE this Semester

Adil Humayun Khan
BS Electrical (Telecom)

Nauman Saeed
BS Electrical (Telecom)

Salman Khan
BS Electrical (Telecom)

Naseer Ali Bajwa
BS Computer Engg.
Sports and upcoming Events

EE Faculty beats NESPAK at Cricket

Cricket Team from the Faculty of Electrical Engineering (EE) played a match with NESPAK Cricket Team on Saturday 31st October, 2009.

EE Faculty displayed a tremendous performance by scoring 287 runs in 25 over match. NESPAK Cricket team was unable to chase the target and lost by 120 runs. Our captain Mr. Khurram Zaidi scored 92 runs and opener for the team Dr. Ali Nawaz Khan also played well for his 52 runs.

EE outperforms at Table Tennis and Football

The EE table tennis team again stood at top this year. It won inter-departmental table tennis competition in both singles and doubles categories.

The team consisted following two talented students, Fahad Aziz and Muhammad Junaid Abid from the faculty of Telecommunications Engineering.

Last year, our team was chosen to represent HEC after winning at Campus and Zonal competitions.

Another major achievement of EE department in sports is to the smashing victory of BTE team over BBA in the final of inter-departmental Football tournament by flourishing margin of 7-2 goals.

This is a symbol of continuous struggle and achievement by EE sports committee members.

Incoming Events: DICE 2009

All Pakistan Digital Innovation Competition and Exhibition is being held at COMSATS Lahore on 23rd and 24th of December, 2009. More than 80 project proposals were received and 62 projects in the disciplines of Electrical, Chemical, Mechanical Engineering and Computer Science have been selected for final exhibition. Details about DICE2009 can be viewed at http://www.ciitlahore.edu.pk/dice2009.

Recognition: A Note of Thanks

This edition of newsletter has been prepared and published by Mr. Usman Rafique and Mr. Muhammad Yasin, Lecturers EE Department on behalf of Departmental News and Publication Committee.

The committee is supervised by Mr. Ahmad Mudassar, Assistant Professor EE Deptt. The publication team is thankful to all EE committee heads for providing us with the data of their respective sections through collaboration with Miss Reema Inam.

You can send feedback to: amudassir@ciitlahore.edu.pk and/or yasin.muhammad@ciitlahore.edu.pk

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