

**From IEEE Karachi Section Chair's Desk**

*"Engineering does not merely know and being knowledgeable, like a walking encyclopedia; engineering is not merely analysis; engineering is not merely the possession of the capacity to get elegant solutions to non-existent engineering problems; engineering is practicing the art of the organized forcing of technological change... Engineers operate at the interface between science and society..." -Dean Gordon Brown*

Technology has enhanced the efficiency and working style of individuals. Unfortunately the majority of population in country who are socially unprivileged citizen and do not have the means to access the benefits of the technological innovations.

I would term this as a major and the real problem and would request to the engineering community to join us in finding the technological solutions to the problems in health services, education, energy, communication, clean water, and disaster relief and uses the technology for humanitarian causes and to support IEEE's activities in working for the benefit of humanity.

I feel delighted to express my views to see the IEEE Karachi Section's e-Newsletter and congratulate the IEEE University of Sindh Jamshoro Student Branch and their editorial board for putting their sincere efforts to bring out this e-Newsletter for such a high caliber containing the thought provoking articles and relevant news items regarding the latest trends in science and technology. I also thank the authors for their contribution to make this newsletter a real technical and informative channel.

Taking this opportunity of this forum, I request the engineering fraternity to come forward under the umbrella of IEEE and contribute in making the technology for the humanitarian causes.

I wish you all the best and assure you of full support on my behalf and of the IEEE in this noble effort and wish to encourage you to keep up the good work.

Parkash Lohana

Chair IEEE Karachi Section

**Institute of Information and Communication Technology, University of Sindh**

Phenomenal rapid development of technology led the University of Sindh to establish independent "Institute of Information Technology", bifurcating the former Institute of Physics & Technology working since 1979, to extend its scope as a beacon for Information Technology education at national and international levels. Currently the nomenclature of the Institute has been re-designated as Institute of Information and Communication Technology (IICT).

In February 2010, Institute of Information and Communication Technology, University of Sindh Jamshoro has submitted IEEE Student Branch formation petition to IEEE HQ (USA) for formal approval with 03 IEEE faculty members and 73 IEEE student members to support technical, research, and soft skills development activities at IEEE platform. At the reporting time, Mr. Abdul Jabbar Bozdar (Chair IEEE IICT-UoS Student Branch) has confirmed about their SB formation. They have also received their School and Student Branch Code. The names of the members of executive body of the recently formed SB are:

**Chair:** Abdul Jabbar Bozdar  
**Vice Chair:** Inamullah Bhutto  
**Secretary:** Maliha Soomro  
**Treasurer:** Abdullah Khokhar

**Inside This Issue**

IICT, University Of Sindh	1
Section News	2
Activities At Different IEEE SBs	3
IEEE 125th Anniversary Celebrations	4
IEEE HIIT SB Report	5
ITECH FAST-NUCES	6
ICIET 2010	7
Editorial	8

## Section Reports

- IEEE Seminar at Quaid-e-Awam University of Engineering Sciences and Technology, Nawabshah On Tuesday 16 February 2010, was conducted to enlighten the students about the Valuable Membership of IEEE and what they would gain by becoming a Student Branch, as part of IEEE's 125 years of celebration around the world. After three enlightening presentations by IEEE Karachi Section Members, QUEST professors and Dean spoke on the need of involvement of the University students. A heavily-photographed cake-cutting ceremony and a trip around the QUEST campus concluded the event.
- The vote-counting and declaration of the IEEE Karachi Section Executive Committee 2010 was completed in the AGM Elections at DA Sunset Club, Karachi, on the evening of 18 February 2010, where Muhammad Yasir Khan was elected as the Section Secretary 2010, while Shoaib Feroz was elected the Treasurer for Karachi Section in 2010. Two presentations were delivered by Yasir Khan on Activity Report for 2009 and Dania Hanif on the Treasury for the financial year ending 2009, and introductions were given by Section Chair Parkash Lohana, and Vice Chair Shahab Siddiqui, and the new Secretary and Treasurer. The previous Section Chair, Sheikh Imran-ul-Haque, finally bequeathed his Executive Committee to Parkash Lohana and the Meeting adjourned with high-tea and an informal photograph session.
- IEEE PNEC conducted an inter-university technical Quiz competition, Quiztronic 2010 on 13 March 2010 at PNEC where teams from IIEE, NEDUET, Mehran university, Sir syed university, BUITEMS, FAST, FUUAST, Hamdard university, PNEC, BAHRIA university participated and after 3 tough and interesting rounds FAST-NUCES won the event, with IIEE being runners-up. BUITEMS were awarded 'team spirit award'. Chair Karachi section Mr Parkash Lohana and the secretary Mr Yasir Khan were present at the event.
- IEEE PNEC organised Career Counselling Meet 2010 on 24 April 2010, where various engineering firm representatives including ABB, EngroCorp, Intel, Pakistan Petroleum, PIA, Shell Pakistan and Telenor Pakistan, gave presentations on the insight of their companies for internships and jobs for PNEC students.
- Connect 2010, an exposition for Communication Systems and Information Technology, was held from 8 to 10 May 2010 at Expo Centre Karachi, where IEEE Karachi Section exhibited a stall to establish student-industry liaison and inform the public in general, and students and industry professionals in particular, of the rewards and benefits of IEEE Membership. The arrangements for the stall were primarily done by Parkash Lohana, Section Chair, Muhammad Yasir Khan, Section Secretary and Syed Ahmed Fuad, GINI Coordinator. A large number of Student Members from various SBs, assisted by Members of Section Ex-Com, volunteered as stall presenters throughout the three days.



- WIE-NEDUET organised a seminar on FPGA technology on 13 May where a full-house audience was registered amidst highly informative speaker presentations by FPGA professionals, NEDUET students and video-conferencing sessions with two graduate engineers from NEDUET, now working in Germany.

**Report By: Hassaan Idrees (IEEE Karachi Section Student Representative 2010)**

### Vote and You Can Get Money For Your Section

The Region 10 will offer bonuses again in 2010, namely \$500, \$300, \$200 to sections with highest voting percentage in the IEEE Elections 2010.

### **GINI Pakistan Ex-Com Face to Face Meeting**

2<sup>nd</sup> GINI Pakistan Excom face 2 face Meeting was held at NUCES-FAST Lahore. It was 2 day meeting held at NUCES-FAST on 9<sup>th</sup> and 10<sup>th</sup> February 2010 respectively.

The objective of this meeting was to train and network the new volunteers together.

## Activities at Different IEEE Student Branches

### Empowering Female Engineers IEEE WIE Seminar

WIE-IEEE PNEC Branch conducted a seminar on “Empowering Female Engineers” on the 30<sup>th</sup> of April 2010. The event was an instant success and the credit goes to the organizers, and gold sponsor, Unilever, for making possible the first ever mother-daughter interactive session at PNEC.

The event composed of various accomplished Female guest speakers sharing their experience and wisdom. It aimed at providing awareness among the females regarding different issues faced by women in general and working women in particular.

The first guest speaker was Ms Safoora Basit Assistant Manager Shell. She encouraged the young engineers to pursue their careers and move forward.

An activity named ‘circuit designing competition’ was conducted for the mothers in which they were to show their skills as ‘proud mothers of student engineers’. Their daughters were to direct them in designing the circuit on the breadboard without touching the components. It was highly thrilling for the mothers and guests and was a moment of laughter for all engineering students to see their mother working.



The next speaker Mrs. Ambreen Imran, Bahria Medical and Dental College enlightened the ladies on the topic of *osteoporosis*. Following this speech, a quiz competition was conducted for the mothers comprising scientific and general questions.

The third guest speaker, Ms Samia Farrukh spoke on marital issues and how to curtail problems in the personal lives of women. After this an interactive session was held between the mothers and daughters. Mothers had to spill the beans. In the end Nimra Kazmi, Female student representative (FSR) PNEC, bid farewell to the girls. A movie, dedicated to the FSR,

comprising all the memories of the last year, which were made possible only because of her, were presented on the screen. Finally the guest speakers were presented souvenirs by the chief guest. The event was a huge success and a great learning experiences for all organizing committee.

### IEEE FPGA Seminar

On 13<sup>th</sup> February 2010, Field-Programmable Gate Array (FPGA) seminar was organised by IEEE IIEE Student Branch. Following other IEEE Student Branches attended seminar.

- HIIT, Hamdard University
- Mehran UET, Jamshoro
- Pakistan Navy Engineering College, NUST

### IEEE JUV Student Branch Revitalization Seminar

On 26<sup>th</sup> January 2010, Jinnah University for Women organised “IEEE Membership Benefits & Opportunities and IEEE in Pakistan” seminar for student and faculty. ~110 students and ~04 faculty members attended seminar.

### The IEEE Annual Elections

The opportunity to vote in The IEEE Annual Elections is a privilege of your membership. Your vote is important to The IEEE and for your Region. Remember that all eligible members also include Postgraduate Students.

Annual Election ballot packages will be mailed to all eligible voting members by 1 August. Electronic Access to the ballot package will also be available on 1 August.

For further information on IEEE Annual Elections, please visit:

<http://www.ieee.org/about/corporate/election/index.html>

# IEEE 125th Anniversary Celebrations

## The Region 10 Logo Competition

The IEEE Region 10, also referred as Asia Pacific Region, with a membership over 77,000 is one of the largest and fastest growing regions of IEEE. It covers a geographical area stretching from South Korea & Japan in the north-east to New Zealand in the south, and Pakistan in the west.

In order to create a compelling and substantial visual identity of the region 10, this competition seeks a logo representing commitment, aspirations and cultural diversity of IEEE members in the Asia Pacific region.

The competition is open to only IEEE members in Region 10, including student members. Participants may complete as an individual or as a team. In case of teams, the team leader must be an IEEE member or IEEE student member. Children of IEEE members also can participate as team members.

**A Cash Prize of USD 500 will be awarded to the winning design.**

Entries will be accepted between 1 Jul & 31 Oct, 2010 via email to IEEE Asia-Pacific Operations Center in Singapore.

Email: [ieee.apo@ieee.org](mailto:ieee.apo@ieee.org)

## **IEEE Seminar IEEE 125th Anniversary Celebrations at QUEST Nawabshah**

On 16<sup>th</sup> February 2010, Quaid-e-Awam University of Engineering, Science & Technology (QUEST) Nawabshah organized IEEE Awareness & IEEE SB formation seminar and also celebrated IEEE 125<sup>th</sup> Anniversary.

## **IEEE 125th Anniversary Celebrations at UIT**

On 23<sup>rd</sup> February 2010, IEEE Usman Institute of Technology Student Branch celebrated IEEE 125<sup>th</sup> Anniversary; with the participation of IEEE HIIT SB .

## **IEEE 125th Anniversary Celebrations at Iqra University**

On 20<sup>th</sup> February 2010, Iqra University celebrated IEEE 125<sup>th</sup> Anniversary with the collaboration of IEEE Karachi Section along with Iqra University SB Inaugural ceremony with vitality.



## **IEEE 125th Anniversary Celebrations at HIIT**

IEEE Hamdard Institute of Information Technology SB celebrated IEEE Anniversary on 19<sup>th</sup> February 2010.

## **IEEE Karachi Section-IEEE 125th Anniversary Celebrations**

In the ninth Executive Committee Meeting of IEEE Karachi Section, it was decided that we will celebrate 125<sup>th</sup> Anniversary of IEEE particularly in the first week of November 2009 at different universities and IEEE Student Branches under its Student Activities Committee as we already celebrated it at different student branches and universities in early 2009.



**Cake cutting by IEEE Karachi Section with Quest Faculty Members**

### 3rd Progress Report of SSR '09 IEEE Karachi Section (Sindh & Balochistan)

Mr. Saqib Munawar one of the brilliant student of Hamdard University and an active member of IEEE Karachi Section handed over his SSR responsibilities to Mr. Hassaan Idrees (SSR '10 Karachi Section). In whole year of 2009 he got a lot of achievements with his vitality. Some of them are :

- Formation of first ever WIE in Balochistan
- Meeting & Coordination with Sukkur IBA
- Meeting & Coordination with QUEST, Nawabshah
- Coordination with Dawood CET
- Meeting with Asia-Pacific SAC Chair in India
- IEEE Xtreme

### IEEE SBs in Pakistan Enthusiastically Participate in IEEE Xtreme

IEEE Xtreme Programming Competition 3.0 an international 24 hours online competition started at 6am (PST) on Saturday 24th October 2009 and finished at 6am (PST) on Sunday 25th October 2009. In this competition 700 teams participated from 40 different countries.



Following IEEE Student Branches in Pakistan enthusiastically participated in this competition

- IEEE GCUF Student Branch, Faisalabad
- IEEE Hamdard IIT Student Branch, Karachi
- IEEE NUCES Student Branch (FAST-NU), Karachi
- IEEE NUST-SEECS Student Branch, Islamabad

### IEEE HIIT SB Report

- Freshmen Orientation & IEEE Introductory Seminar: On 03<sup>rd</sup> September 2009, SSR IEEE Karachi Section was invited to aware HIIT students about IEEE membership benefits, opportunities, Awards, Scholarships and HIIT technical, research, and soft/leadership skills activities.
- Inter-HIIT Cricket Championship: IEEE HIIT SB members' team participated and reached in semi final in cited championship which was organized by Directorate of Sports.
- IEEE & HEC Digital Library Seminar: On 26<sup>th</sup> October 2009, Mohammad Shahab Siddiqui (SAC Chair Karachi Section) conducted seminar for students and faculty.
- IEEE Wireless Sensor Networks Seminar: On 11<sup>th</sup> December 2009, SB organized cited event in FEST Auditorium. Seminar speaker was Engr. S Hyder Abbas S. Musavi.
- Industrial Tour: On 21<sup>st</sup> January 2010, Engr. Faiz (H-TECH) along with Engr. Fahad (IEEE Faculty Member) organized Industrial tour to Pakistan Steel Mill.
- 25<sup>th</sup> (Silver Jubilee) IEEEEP All Pakistan Students' Seminar 2010: On 03<sup>rd</sup> March 2010, Bahria University organized cited event. SB members presented technical research paper in this seminar.
- Robots War Contest with Engineering & Programming Projects Competition: On 14<sup>th</sup> April 2010, Engr. Faiz (H-TECH) and Engr. Fahad (IEEE Faculty Member) organized 1<sup>st</sup> ever live Robots War Contest in Pakistan, event media coverage by Metro One TV. Around 275 students lively enjoyed Robo Fight contest in Bait ul Hikmah Auditorium. 12 Robots fought each other in fighting ring.
- SPEC 2010 at NED-UET: On 19<sup>th</sup> April 2010, NED UET organized 5<sup>th</sup> Students' Project Exhibition and Competition (SPEC). 16 HIIT students participated with 07 different projects.
- IEEE HIIT ELECTIONS 2010: On 22<sup>nd</sup> April 2010, IEEE HIIT Election Committee organized SB elections. 29 student candidates submitted their nomination papers for different posts.

## IEEE iTECH 2010 FAST-NUCES

- Procom.Net 2010 at FAST-NUCES: From 1<sup>st</sup>-2<sup>nd</sup> May 2010, FAST-NUCES enthusiastically organized 1<sup>st</sup> International & 11<sup>th</sup> national edition of Procom.Net (an annual engineering, programming and business fest). 22 fervor HIIT students participated by presenting their projects from Electronics, Robotics, Energy, Computer, and Software domains.
- Connect IT Expo: From 08<sup>th</sup>-10<sup>th</sup> May 2010, HIIT students energetically exhibited with their 09 different projects from (Electronics, Robotics, Computer, Energy, & Programming) domains. Around 700+ people visited HIIT stall from Local and Foreign Industry, Educational & Government Institutions, and general public.
- IEEE Asia-Pacific Website Contest: IEEE HIIT Student Branch participated in this prestigious regional contest.

### 1st Student's Activities Committee Meeting

1<sup>st</sup> meeting of the 2010 IEEE Karachi Section Student Activities Committee Chairman and IEEE Student Branches was held on Saturday, March 20, 2010 at Graduate School of Engineering Sciences and Information Technology, Hamdard University, Karachi, Pakistan.

The agenda of the meeting was to guide new Branches like Iqra University Karachi and IICT, UoS Jamshoro.

The IEEE iTECH 2010 was held from April 12 to 16, 2010, organized for the first time by the collaborating efforts of IEEE NUCES branch chapters namely IEEE Communication Society, Computer Society, Robotics and Automation Society and IEEE Affinity group WIE.

From left IEEE Karachi Section Vice Chair Shahab Siddiqui, Saqib Munawar (SSR '09), IEEE NUCES RAS Chair Munis Qadri.



Not only did it give people a chance to showcase their skills in a series of technology related competitions but also gave an opportunity to expand their horizons and excel in their fields. The event comprised of a diverse range of section (Karachi) level competitions, seminars and workshops by professionals, tech talk and recreational activities that includes Sports Gala, Indoors, Gaming Movie Show. IEEE WIE PNEC and FAST Sportics is a collaborating partner in NUCES WIE Sports Gala and Indoors. In this event students participated from different universities like BAHRIA, NED, HAMDARD and NUST PNEC.

Report: Deep Chand (Chair IEEE RAS FAST-NUCES)

## Upcoming IEEE Conferences in Region 10

### 2010 IEEE International Conference on Power & Energy (PECon):

29 Nov - 01 Dec 2010

Conference Location: Kuala Lumpur, Malaysia

Sponsored by: Malaysia Section PE Chapter.

<http://www.ieeepecon.org/2010/>

### 2010 8<sup>th</sup> International Conference on ICT & Knowledge Engineering:

24 Nov - 25 Nov 2010 Conference Location: Bangkok, Thailand

Sponsored by: Thailand Section.

<http://www.ict-ke.org>

## IEEE International Conference on Information and Emerging Technologies (ICIET 2010)

ICIET 2010 was organized from June 14 to 16, 2010 at National University of Computer and Emerging Sciences, Karachi Campus. IEEE Karachi Section was one of the partners in ICIET 2010. Doctoral Symposium was held along with ICIET 2010 on June 15, 2010.

During the process of review of the conference ICIET 2010 received 260 papers and after two-tier review process under Dr. Jawwad Shamsi, 74 papers were selected.

On Day 1 (June 14) Inaugural of the conference was held from 3pm. Dr. S. M. Atif Saleem – Conference Secretary introduced ICIET 2010 to the audience. Dr. Zubair A. Shaikh – the Conference Chair welcomes the researchers, authors and the audience of the conference. Dr. Abdul Rahman Memon, Hamdard University, Karachi was the Chief Guest at the ICIET 2010. Engr. Parkash Lohana the Chair, IEEE Karachi Section and Co-Chair of ICIET 2010 also addressed the audience.

On Day 2 and 3 (June 15 and 16) paper presentations and doctoral symposium activities were held. The day 2 started with the keynote speech of Dr. Abbas Zaidi from George Mason University, Fairfax, VA, USA on “New trends in Neural Networks and Artificial Intelligence”. Paper presentations were held in three parallel sessions at different conference rooms of National University of Computer and Emerging Sciences, Karachi Campus.

Doctoral Symposium was held at Green Room, Telecommunication Block, National University of Computer and Emerging Sciences, Karachi Campus on day 2 . PhD Students from different universities namely GIKI, Hamdard University and FAST-NU participated in it. Their research topics are Tunable Metamaterials, Community Algorithm, Data Management in Ad-hoc Networks, Context Aware Workflows, Data Provenance, and Context Aware Sensor GRID for Agriculture.

On the last day after the lunch-break, closing ceremony of ICIET 2010 was commenced. Dr. Amir Mohammad, Rector of National University of Computer and Emerging Sciences was the Chief Guest at the Closing Ceremony The conference was closed and certificates and souvenirs were distributed among the key persons of the conference.

## IEEE Seminar at University of Sindh

On Saturday 17<sup>th</sup> October 2009, Saqib Munawwar and Mohammad Shahab Siddiqui (IEEE Karachi Section SAC Chair 2009) conducted IEEE Student Membership Benefits, Opportunities, Awards, Scholarship and Student Branch Development Seminar at University of Sindh, Jamshoro.

Around 11 faculty members and approximately 225 students attended IEEE seminar from following different institutes and universities.

- Institute of Information and Communication Technology (IICT), University of Sindh.
- Institute of Mathematics and Computer Science (IMCS), University of Sindh.
- Institute of Bio-Technology and Genetic Engineering (IBTGE), University of Sindh.
- Quaid-e-Awam University of Engineering, Science and Technology (QUEST), Nawabshah.



Handed over 40 IEEE Why I Joined Booklet after asking questions based on presentations. SAC Chair & SSR presented Souvenirs to Dr. Imdad Ali Ismaili , Dr. Asad Ali, Engr. Ameet Kumar, Engr. Irfan Halepoto (MUET), Faculty Member & Students of QUEST, Nawabshah



From Left at IICT: Engr Imran Ujjan, Saqib, Shahab, Dr Imdad, Dr Asad, Engr Irfan, Engr Ameet, Mr. Zeeshan, & Engr. Bisharat

## Karachi Section Ex-Com

Parkash Lohana	Chair
Mohammad Shahab Siddiqui	Vice Chair
Mohammad Yasir Khan	Secretary
Shoaib Feroz	Treasurer
Dania Hanif	Chair GOLD Affinity Group
Dr. B.S. Chowdary	Chair Communications Society
Bakhtiar Kasi, Dr. Roshan Shaikh	Chair Computer Society
Hassaan Idrees	Section Student Representative
Ravendar Lal Bhojwani, Syed Ahmed Fuad	GINI Coordinator

### Editorial

After much endeavor, IEEE Karachi Sections News Letter, June 2010 issue is in front of you. This is the first official activity of the newly formed student branch of IEEE at IICT, University Of Sindh, and I am elated to be a part of the team with whose joint efforts we were able to produce this newsletter for IEEE Karachi Section. Not only has this experience been worth the effort but also a source of gaining insight into the technical and scientific developments and events which different student branches of IEEE Karachi Section have been doing this year.

IEEE Elections are drawing near and the ballot paper will be available on 1<sup>st</sup> August, and through this forum I would suggest all the members to cast their vote, and help our Section in benefiting from the elections. I hope this issue proves to be benevolent in strengthening the bond that is shared by all the student branches, and aids us in further progress and improvement with your feedback at [ieee.usindh@inbox.com.pk](mailto:ieee.usindh@inbox.com.pk).

Editor

Neelma Bhatti

## Newsletter Editorial Board

Editor	Neelma Bhatti
Assistant Editors	Mohammad Azeem Jalbani, Tooba Majid
Design And Layout	Neelma Bhatti
Newsletter Team	Sadia Talpur, Tarique Aziz, Urooj Mangi, Rizwana Memon, Anum Akram, Humair Ahmed Memon, Mohammad Bachal Lashari and Raj Kumar