



A QUARTERLY NEWSLETTER

# NUSTNEWS

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## EDITOR'S NOTE

*This quarter, NUST community remained actively engaged in conducting various events including graceful convocations, seminars and workshops addressing the national issues and challenges. These activities and forums for creativity and self-expression give opportunity to students to discover their latent acumen providing them a thoroughly fulfilling experience. NUST achievements both at national and international fora speak of the commitment and diligence the NUSTIANS display towards pursuing their goals. The efforts of my entire editorial team for this quarter of NUSTNEWS is deeply acknowledged. I wish you an enjoyable reading and look forward to your feedback.*

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## Three-day Int'l Conference on Climate Change held at SCEE

A collective scientific approach is required for mitigating the impact of climate change which is one of the most serious social, economic and environmental challenges facing the humanity in the contemporary era. This was the crux of a three-day international conference on "Climate Change: Opportunities and Challenges" held at the main campus of National University of Sciences from May 9 to 11. Federal Minister for Science and Technology Mir Changez Khan Jamali was the chief guest for the inaugural session of the conference.

The objectives of the conference were to create awareness on climate change, assess the gravity of the problem in Pakistan and bridge international cooperation gap to address the challenges. Pakistan Council for Science & Technology, Ministry of Science & Technology had hosted the mega event in which participants came all the way from across Australia, New Zealand, United States, China, Thailand, Iran and Nepal.

Speaking at the occasion, the minister said, "Global climatic changes have indeed taken place in the current decade. There is a need to handle them collectively." The minister suggested to develop a well-planned infrastructure, create awareness and include climate related issues and their impacts in syllabi.

Rector NUST, Engineer Muhammad Asghar said that there was an urgent need to improve coordination between the academia and policymakers towards mitigating the effects of the natural disasters due to the climate change.

Federal Secretary Climate Change Muhammad Javaid Malik said that Pakistan was among the eight top countries most vulnerable to climate change. He said that invariability of monsoon rains, melting of glaciers, cyclones, floods and water insecurity issues were some of the manifestations of climate change. "We are working with the concerned stakeholders to the mitigate impacts of global climate change and stabilise our growth," Malik added.

Later, the concluding session of the conference was chaired by Federal Minister for Climate Change Rana Farooq Saeed Khan. In his address, he appreciated the efforts of PCST for timely organizing an important event and showed his commitment to adopting all the recommendations made by the conference participants. He gave special emphasis on the need to understand the process of climate change and its direct impact on future crop yield in particular and the country's economy in general. He stressed the need for investing in sustainable agriculture and small scale farmers, thus promoting the use of drought-resistant crop varieties, alternate farming practices and reduced cultivation of water intensive crops. He also accentuated the need for building new dams and reservoirs for water storage and mitigating the chances of devastating floods the country had experienced during recent years. He ensured that the government would take serious steps in this direction.



# Workshop on Science & Technology Policies and Planning in SAARC Countries

Federal Minister for Science and Technology, Changez Khan Jamali has said that science and technology are driving forces of modern society and foreign direct investment (FDI) in scientific research will inevitably result in socio-economic benefits.

He was addressing the inaugural session of the workshop "Science and Technology Policies and Planning in SAARC Countries", at NUST Business School (NBS). The two-day interactive workshop was held at NUST on April 10-11, focused on the establishment of improved linkages and a more efficient communication network amongst the SAARC nations in related disciplines of S&T policy and planning. The event was organized by Pakistan Council for Science and Technology (PCST) and Ministry of Science and Technology. There were more than 60 participants who attended the workshop including 18 invited speakers from SAARC countries i.e. Afghanistan, Sri Lanka, Bangladesh, Nepal and host Pakistan. The number of participants from Pakistan was 48, representing 15 S&T organizations.

The Minister said no doubt people of Pakistan wanted rapid growth of science in their country; however, in the drive to strengthen knowledge-based societies and technological advancements, proper policies and plans were among the most indispensable prerequisites. The Minister anticipated that the ideas that would be generated during the workshop would provide ground work to reinforce the

S&T infrastructure in the region.

Chairperson Pakistan Council for Science & Technology (PCST), Prof Dr. Mudassir Asrar highlighted that as developing nation, Pakistan faced a lot of challenges unique to this region. She said that SAARC can play a crucial role in developing joint strategies to tackle these issues and dire need to develop a course of action to conserve the environment and deal with climate change, food and energy production, develop private and public institutions and infrastructure.

Rector NUST, Eng Muhammad Asghar emphasized on collaboration and cooperation among the SAARC countries. Later in the workshop, first technical session was held under the chairmanship of Engr Muhammad Asghar during which representatives from participating states presented S&T policies and initiatives in their respective countries.

Akhlaq Ahmad Tarar, Secretary, Ministry of Science and Technology was the Chief Guest for the concluding session. Speaking at the occasion, the Secretary said that concerted efforts should be made to have more technological exchanges and contacts between the intellectuals amongst the SAARC nations. In the end, he assured full support for programs and projects identified by experts for development of the region through applications of science and technology, on behalf of the Government of Pakistan.



## NUST launches Alumni Association

NUST launched official Alumni Association in an impressive ceremony held on May 11. NUST Alumni Association (NAA) will be a non-profit organization which shall work for the unification of NUST alumni, the University, students and its faculty. Rector NUST, Engr Muhammad Asghar presided over the ceremony in which the Presidents of Alumni Associations of various individual NUST Schools & Colleges, Senior Alumni and Commandants & Principals of NUST constituent Schools & colleges participated.

Presidents Amcolians Alumni Association, Dr. Mazhar Ishaq, President Signalians Alumni Association Mr. Ammar Khan and President EME Alumni Association Mr. Adnan Shahid also gave presentations about their respective Alumni Associations and appreciated the concept, which is to establish and maintain lifelong relationship between the university and its Alumni centred around ownership

and support.

Rector NUST, Engr Muhammad Asghar in his remarks stated that Alumni associations of individual Schools & Colleges of NUST

are now official associations of the University and part of NUST Alumni Association. They have a mandate to promote academic, Research & Development and welfare activities for the University and its Alumni. He also offered his full support to the cause of Alumni development at NUST. The ceremony concluded with the launch, followed by NUST Alumni cards being presented to all Alumni gracing the occasion.



## Radiation for Peace National Symposium on Peaceful Applications of Radiation held

NUST Science Society organized National Symposium on Peaceful Applications of Radiation on April 14. The event featured renowned speakers from diverse fields who dilated on the latest approaches in areas of agriculture, biotechnology, medical science, nuclear energy and radiation safety. The objective of the Symposium was to bring to limelight the positive and irrefutable applications of nuclear radiation to ameliorate the human life.

The Chief Guest for the Symposium, Dr. Shaukat Hameed Khan, Executive Director SOPREST and Ex-member (S & T) Planning Commission gave a plenary talk at start of the event followed by an address by Pro Rector NUST, Dr. Asif Raza. Thematic sessions were commenced by Guest Speaker Dr. Syed Arif Ahmad, Director General Safety, PAEC who spoke about International Safety Standards followed by a session on Nuclear Medicine by Dr. Javaid Irfanullah, Director NORI. Three more sessions namely, Agriculture and Biotechnology by Dr. Anwar Shah, Deputy Chief Scientist at NIFA, and Material Processing by Dr. Shamshad Ahmad, Professor SCME NUST, and finally, Power Generation by Engr. Amer Manzoor who is a Principal Engineer at Chashma were presented. by Dr. N. M. Butt, Ex Director General PINSTECH and Scientist Emeritus PAEC concluded the sessions with the topic "Future Prospects and Global opportunities for Radiation Technology". The Symposium also gave the attendees a

first-hand opportunity to understand the entrepreneurial aspect of Nuclear Radiation.

The discussions of experts were mainly focusing on the countless applications of nuclear radiation in the fields of medicine, agriculture, biotechnology, power generation and material processing, which have proved prolific for the economy and industry of several countries especially USA and Japan. Pakistan has more than 30 years of experience of handling nuclear reactors. Its indigenous capability is marked by high safety standard and quality excellence. Pakistani scientists and experts can handle civil nuclear technology for power generation and the radiation can safely be harnessed for peaceful applications in multifarious fields mentioned earlier. The development and applications of nuclear radiations are still to be fully distilled.

Lastly, Engr. Parvez Butt (Ex-chairman PAEC) addressed the audience at the closing ceremony of the symposium. The symposium concluded with the pledge for continuous research and investment in the field of radiation that can prove to be consequential, not only for our country but for humanity in general.





## Excelling Impressions with Adnan

Shahid and Tariq Amin:

# Learning the art of Communication

A workshop was held at the School of Chemical and Materials Engineering (SCME) on April 8, focusing on development of effective communication skills in students from all over Islamabad. It aimed to help develop skills in the attendees, which would enable them to leave lasting impressions, effectively pitch new ideas and to be generally more confident in their speech. Mr. Adnan Shahid, the CIO of Ideogeny and the COO of Branding Bees and a well renowned stylist Tariq Amin were invited as the eminent guests.



Mr. Shahid has been a motivational speaker for a long time, and has conducted many workshops on communication skills and professional ethics. Additionally, he has also held leadership positions at many esteemed organizations like Mobilink, CA, Premier Oil and NADRA.

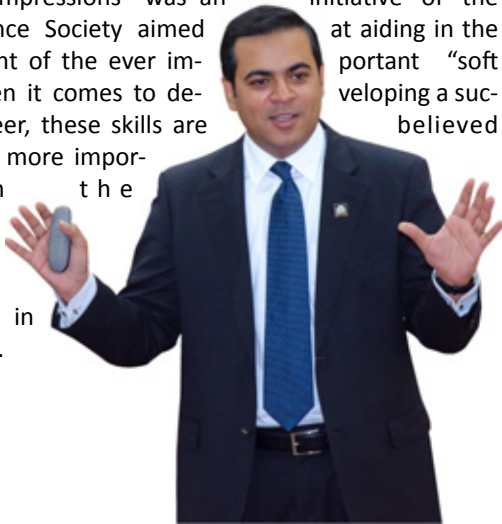
The attendees were also provided with the opportunity to learn how to dress appropriately and groom themselves for various occasions by the famous hairstylist, Mr. Tariq Ameen. In a gathering of engineers and professionals Mr. Ameen introduced the audience to fresh ideas regarding "fashion" and "style".

Both the speakers involved the audience in a fun interactive session. The workshop took off with an activity to identify

the student's expectations from the workshop. Students were taught effective communication techniques, lunch/dinner etiquettes, how to dress in professional meetings and gatherings.

Mr. Shahid stressed that the students need to create a brand power for themselves using these effective means of communication. He stressed on the importance of "credibility" and "fairness" in developing a personality, which would ensure success for its owner.

"Excelling Impressions" was an initiative of the NUST Science Society aimed at aiding in the development of the ever important "soft skills". When it comes to developing a successful career, these skills are believed to be even more important than the technical skills, which are focused on in universities.



## Workshop on PD Modeling and Scorecard Development at RCMS



In the recent past, PD Modeling and Scorecard Development have become a dire need in risk departments of all banks. Realising the essential requirement of training in this area, Research Centre for Modeling and Simulation (RCMS) conducted a workshop on PD Modeling for Retail Portfolio and Scorecard Development with GNU 'R' software for statistical computing from April 24-26. The content for the training was proposed by various risk managers in the banking industry and was conducted by the training team of NUST.

The training was specially designed for credit risk modellers, Base II Analysts, Mortgage, Credit Card & Loan Specialists, Credit Risk Managers and Software Vendors. NUST highly qualified faculty constituted the workshop advisory including, Dr. Khalid Parvez, Dr. Muhammad Yousaf Shad and Mian Khaliq Ur Rehman who is a Credit Risk Modeler and RMC Consultant.

All major Islamic, public-sector, private, foreign and micro finance banks in Pakistan along with State Bank of Pakistan attended the workshop. Pro-Rector NUST, Asif Raza said on the occasion that active participation of the banks in this training activity would not only help in better understanding of PD Modeling and practical working of application scorecard, but would also give added benefit of collaboration between the stakeholders throughout Pakistan.

RCMS- NUST conducts Master and PhD programs in the field of Computational Science and Engineering (CS&E). In recent time, CS&E has become a vital fragment of research in all areas of social and applied sciences. It employs techniques of applied mathematics and computer science to develop problem-solving methodologies and tools to build solution blocks. Through conducting such trainings, RCMS-NUST aims to enhance indigenous research capabilities in modeling and simulation, carry out projects of public, commercial nature and assist industry towards improving self-reliance.

## NUST Predicts Nano-Technology Frontiers

National Symposium on Frontiers in Nanotechnology was held at the NUST main campus, Islamabad on May 19. It was an initiative taken by NUST Science Society (NSS) with the support of Pakistan Science Foundation to provide the student body with an improved insight into the exponentially expanding field of Nano-Technology. 300 participants from 20 universities and 12 cities were joined by eminent experts associated with nanotechnology, who updated them with the latest progressions in the field.

Dr. Noor Muhammad Butt, former Chairman, National Commission of Nano-Science and Technology, took the audience through a tour of the birth, evolution and future prospects of Nano-Technology, relating how it roots from basic science and impacts all the major fields. Dr. Butt identified the present era as a crucial period for rapid growth in Nanotechnology and mentioned how world powers had directed their attention and resources to its development. He stressed that Pakistan, too, would have to take serious measures to attain parallel footing.

Mr. Imtiaz Rastgar, founder of Rastgar enterprises, proceeded to address the audience focusing on the importance of commercializing technologies as it was required to convert an idea into a product.

Pro-Rector NUST, Engr. Muhammad Shahid commended the efforts of NSS in fusion of formal and informal education. With reference to Nano-Technology he encouraged the audience to keep their minds open. A series of notable scientists and distinguished names of academia from NUST, GIKI, LUMS, COMSATS and PCSIR gave further insights into this technology. The second



part of the event was another highlight, comprising of a poster presentation inviting participants from over 20 different institutes to present cutting edge researches and technologies. Their presentations were judged by the dexterous panel of guest scientists.

The closing ceremony was chaired by the celebrated scientist, Dr. Samar Mubarakmand who informed the audience about the efforts of planning commission in acquisition of latest equipments for promotion and application of nanotechnology research at government organizations. Dr. Samar who is also the mentor to NUST Science Society presented the large audience with a piece of thought while sharing a presentation on the Thar Coal Gasification Project. The symposium ended with a positive realization that Nano-technology has the potential to revolutionize informational and industrial era, therefore resources must be utilized in development of this field.

## NUST and National Bank of Pakistan embark on a joint research project

NUST- Corporate Advisory Council and National Bank of Pakistan (NBP) embarked upon a joint research project in 2011. Keeping in line with its core aim of having long-term economic impact for the sectors within its purview, the CAC embarked on a mega-research initiative of mapping the industrial disposition of Pakistan. The certificate distribution ceremony was held on June 11 where all the participants were given certificates.

A total of 25 of the brightest students from NUST, most of which came from NBS and SEecs had conducted an in-depth sector analysis covering 34 sectors of Pakistan's economy. The objective was not only to build a repository containing authentic data about the various sectors, but also to present an outlook on the sectors and identify their growth potential, growth barriers, specific issues, strengths, opportunities and threats. The deliverable at the end of the project was a report titled 'Industry Ratings & Strategic Positioning 2012,' co-authored by the CAC



and NBP, which was meant to provide value to industry members, potential investors / lenders, as well as policy makers, providing the framework and data repository for the industrial and economic leadership of the country. This exercise has placed NUST as a partner institute for what is considered the prime source of business intelligence in our Banking and Financial Services community.





## Intra-NUST Drama festival: Through theatre expressing mistrust in justice system.

During the first Intra-NUST drama festival, the NUST Debating and Dramatics Society (NDDS) from NUST Business School tried to make the event enjoyable while throwing light on some important issues faced by the country. On May 22, The Islamabad Club saw an overwhelming turnout of students from different Schools of NUST.

Teams 'Dramay baaz' from NUST Business School and 'Akheer' from School of Chemical and Electrical Engineering seriously dealt with themes of injustice and drug

abuse respectively in their plays 'Kyun?' and 'Drugs: a death call', whereas team 'Bio-Humor' from ASAB addressed the inherent problems with communication, language and translation in a humorous fashion. Team 'Stagefreaks' from NUST School of Mechanical and Manufacturing Engineering portrayed wayward Romeo in a comedic social commentary 'Deewanay Afsanay'. This act had the audience in fits of laughter and was one of the most entertaining acts that evening.

During these plays there were a number of musical performances by Usman Khan, and NUST underground band THE ANARCHISTS and a punjabi rap number by Abdullah Khan, Noman and Shehroz. They surely had the crowd entertained while the participants got their acts together. The last performance which also won at the Art Festival at GIKI and many others was the 'MIDGET DANCE' performed by Sheraz Khan and Asad Siddique, final year MBA students at the NUST Business School.

Chief Guest, Faheem Azim who is a NUST alumnus gave a small briefing on the importance of theatre and critiqued each act, which proved both helpful and encouraging for the performing students.

The Dean and Principal NBS, Dr Ashfaq Khan said, "This festival is not only a creative way to highlight some of the issues our country is facing but also to come up with innovative solutions."

Chief guest, Mehmud Bashir Bajwa, Director Student Affairs commended students' efforts and gave away prizes.

## NUST Conducts International Workshop on Occupational Safety and Health Training at SCEE

National University of Sciences and Technology conducted an international workshop on Occupational Safety and Health Training for Owners, Constructors, Consultants and Administrators on May 22 in SCEE Auditorium. Member Implementation & Monitoring, Planning Commission of Pakistan Lt Gen (R) Shahid Niaz HI(M) was the chief guest. The two-day workshop (May 22-23) aimed at introducing the audience with safety culture, hazards, safety practices, safety training, safety management and OSHA standards. It helped a great deal in identifying problems of safety in the construction industry, suggest remedial measures and create awareness among managers, engineers, contractors, consultants, government agencies, development organizations and academia. The ideas of 'zero accident techniques' and 'best practices to ensure zero accidents on construction sites' were well-acknowledged by the participants of the workshop. The thought-provoking presentation sessions by the eminent scholars namely Dr Jimmie W. Hinze, Prof Dr Sherif Mohammad, Prof Dr

Salman Azhar, Prof Dr Muhammad Irfan Khan Mr Saeed Awan, Pro Dr Rizwan ul Haq Farooqui, Dr Zainab Riaz and Prof Dr Rafiq Muhammad Chaudhary made the workshop a great success.

Pro Rector NUST Engr Shahid Maqbool touching the ethical side of the issue emphasized to view the entire phenomenon through a social angle. He was of the view that the social ties on a professional were far stronger than the professional obligations.

Speaking at the occasion, the chief guest Lt Gen (R) Shahid Niaz HI(M) remarked that it was quite ironical that most of the project managers and the business professionals generally had the least idea of their responsibilities regarding occupational health and safety management. He further shared some of the insightful recollections from his practical workplace experiences. The chief guest realized the audience of the urgency of adapting to the best practices on construction projects in order to make construction venues secure and protected.



## NUST rewards Microsoft Imagine Cup winners



To recognise meritorious efforts of its winning team at Microsoft Imagine Cup, National University of Sciences and Technology held an award giving ceremony at its main campus on May 21. Rector NUST Engr Muhammad Asghar graced the occasion as the chief guest.

Cash Award of Rs. 5000/- was given to each member of the winning team namely Celoks comprising Qasim Ikram, Salman Mazhar, Usman Bin Wahid and Muhammad Azeem from NUST School of Electrical Engineering and Computer Science. The team's project SEED was about donating left-over food to the needy through Windows Phone Application.

Microsoft Imagine is the world's premier student technology competition that aims at bringing together the young technologists from across the globe who come up with projects/solutions helpful in resolving both the present and impending challenges of unprecedented nature. As many as 11,000 students from different universities of Pakistan actively participated in the contest. It was the first time in the history of this competition that a team from NUST had won the national final of Microsoft Imagine Cup and was to represent Pakistan at worldwide finals. Marking its tenth year, Microsoft is now going to hold the Worldwide Finals of the Imagine Cup in Sydney, Australia early July.

Principal SEECS, speaking to the audience, highlighted the collaboration between Microsoft and NUST over past few years by explicating how it had been nourished to bring mutual assistance for greater benefits of students.

While speaking at the occasion, Rector NUST Engr Muhammad Asghar commended the remarkable performance of the winning team. He also paid a rich tribute to Mr Shabbir Khan, the faculty advisor for the team Celoks, for altruistic endeavours and continuous support he offered for the team. Rector NUST cajoled the team members into making a result-oriented as well as a compatible plan with NUST Community Service towards poverty alleviation. He urged the winning team to further maintain the tempo and bring international acclaim to NUST by winning the worldwide finals to be held in Australia. Engr Muhammad Asghar stressed that universities should realize their responsibilities towards building knowledge-based economy.

## Approval of 7th Semester BMAS Programme at NIPCONS

An IHD was held at GHQ, Rawalpindi on June 12, which was chaired by COAS General Ashfaq Perwaiz Kiyani, NI (M). In addition to the Principal Staff Officers at GHQ, the meeting was also attended by Engr Muhammad Asghar, Rector NUST and Mr Ali Baz, Principal NIPCONS. It was decided that the 7th Semester of the BMAS programme for NUST Institute of Peace and Conflict Studies (NIPCONS) Institute shall commence at the six designated HRDCs as per proposed schedule in 1st week of January 2013. The COAS gave decision that the BMAS 7th semester shall be conducted at Rawalpindi NUST Campus.

## Workshop on improving organizations' internal quality by reducing job stress

Psychologists assert: Stress is an inevitable phenomenon, if not managed may affect productivity, healthy relations and personal growth

The Centre for Counseling and Career Advisory (C3A), NUST in collaboration with Professional Development Centre (PDC), organized a five-day training specifically for Pakistan Air Force officers from April 16-20. The objectives of the workshop were to shed light on the effects of stress and to improve productivity by reducing negative impact of stress. Stressors were identified and strategies for coping stress were discussed. The purpose was to help increase productivity and enhance group dynamics. The members learned helpful tools to optimize performance at personal and organizational level.

The workshop was interactive and was designed to meet participant needs. Active input by the participants, fruitful discussions and motivation for implementing the effective tools in day to day life resulted into successful culmination of the workshop. Almost 99% of the expectations and the objectives were met as per the details collected through the feedback forms given at the end of each day. The comments were taken into consideration for future modified and improved workshops.



## One-day Workshop on “Modern Trends in Survey”

A one day workshop on “Modern Trends in Survey” was organized by NUST Institute of Civil Engineering (NICE) at SCEE Auditorium on June 26. The workshop comprised of three sessions. People from different organizations from around the country participated in the workshop. In the first session, Asst Prof Nasrul Haq, Head of NICE Survey Department talked about the recent history of surveying in the subcontinent. In the second session, Muhammad Ammar of NICE delivered a comprehensive lecture covering the modern trends of survey such as Integrated Total Station, Global Navigation Satellite System (GNSS), Indoor Positioning & Terrestrial Laser Scanning. Towards the end of this session, the participants were also trained on carrying out the configuration of a branded



GNSS controller/receiver using manufacturer supplied PC Simulator. The third and final session was based on practical training using both the hardware instruments and mapping software available with NICE Survey Lab. The participants were physically taken to the field and data collection was made using both the total station and GNSS equipment. Afterwards, the collected data was imported to the mapping software using computer workstations at NICE Survey Lab and a small scale map was developed using a step wise procedure. At the end, the certificates were distributed among the participants by Dr Liaqat Ali.

## Accreditation Status Tracking Conferences (ASTC)

3rd Pakistan Engineering Council (PEC) Accreditation Status Tracking Conference was organized by Quality Assurance Dte on April 25 and was chaired by Pro-Rector (Academics) Dr. Asif Raza. Recitation from Holy Quran was followed by the welcome note by Pro-Rector (Academics). Deputy Director Quality Assurance, Engr Salahuddin Adil Qazi delivered a presentation highlighting the actions regarding the decisions enunciated in 2nd PEC Accreditation Status Tracking Conference and the current status of accreditation of all NUST engineering programs.

1st Accreditation Status Tracking Conference (non-engineering programs) was also held on April 30 and chaired by Pro-Rector (Academics) Dr. Asif Raza. Deans and Head of Departments (HoDs) of Army Medical College (AMC), NUST Business School (NBS), Pakistan Navy Engineering College (PNEC), School of Electrical & Computer Sciences (SEECs) and School of Art, Design & Architecture (SADA) attended the Conference along with various directors. Lat-



## Group Counseling on Confidence building-C<sup>3</sup>A

Previous group sessions on confidence building had generated a tremendous level of interest and excitement among the students that lead them to participate in the fourth session of “Confidence Building” starting from March 16.

The session began with group bonding activities; moving on to addressing self confidence and positive self-worth. The participants learned the art of self-disclosure and enhanced their skills of effective communication i.e. both verbal and non verbal. They also identified obstructive thought and behavior patterns that hindered their personal growth and development. Helpful coping and handling strategies were introduced to assist internalizing and also to view situations and people with an improved perspective. The participants gave feedback at the end of each session, which helped the facilitators to timely identify the comfort level and address the concerns of the participants. The sessions successfully concluded on May 18.

er, all the NUST engineering institutions presented the PEC accreditation status of their programs. They also provided update on the actions taken on the observations made by the PEC Teams during their previous visits to their respective programs. Various decisions were enunciated by the chairman to improve the quality of NUST Engineering Programs.



## IPDF and NUST sign MoU for development of NUST Science and Technology Park and NUST Smart School



Infrastructure Project Development Facility (IPDF), is a company owned by Ministry of Finance, Govt of Pakistan. NUST and IPDF have signed a Memorandum of Understanding (MoU) at HQ NUST, Islamabad. Under the MoU, IPDF will facilitate, provide expert assistance and facilitation to NUST to develop, implement and procure the project and works under the Public Private Partnership (PPP) modality. From IPDF Mr. Adil Anwar, Chief Executive Officer and Mr. Afzal Dar, Infrastructure Specialist visited NUST for the ceremony. IPDF is assisting NUST in preparing documents offering to private parties for various projects including, NUST Science and Technology Park (NSTP), construction of residential accommodation at NUST and establishment of Smart School at NUST.

## PDC organizes professional training programmes

Professional Development Centre (PDC) NUST signed MoU with Pakistan Air Force (PAF) to deliver professional development trainings on five different topics for its officers mostly; Wing Commanders, Sqd. Leaders, and Flight Lieutenants nominated from different departments and locations. The training sessions were held from April 16 to May 25.

In this connection, a five-day training on "Improving Organizational Productivity through Systems Thinking" was held from April 23-27 at CIE, NUST. Mr. Tanveer Ahmad, CEO of Aviation MRO was the chief resource person. The main objective of training programme was to develop a mature thinking towards their system to maximize their productivity ratio and get the efficient level of performance. Certificate awarding ceremony was honored by Principal NILE Dr. Syed Mahmood Raza and a two member delegation from AIT (Asian Institute of Technology Thailand) comprising Dr. Jonathan Shaw, Executive Director AIT-Extension and Dr. Faiz H. Shah, GM/Head Management Development. Another training was given on "Employee Performance and Appraisal Management" held from April 30 to May 4. Mr. Muhammad Nasim Raza (Phd-HRM) and Dr. Muhammad Haroon Siddique Lecturer SCEE were the resource persons of the said training.

Similarly, a five-day training programme on "Emergency Response & Disaster Management" for PAF Officers was organized from May 7 to 11. Mr. Falak Nawaz (who is the

lead consultant of disaster Management) and Mr. Muhammad Farooq (Director Rescue 1122) were the resource persons of the said training. The main aim of this training course was to sensitize the PAF officers about the Disaster Risk Management system existing in Pakistan and the relationship between disaster management and development.

Another five-day training program on "Strategic Human Resource Management" was organized from 14-18 May. Mr. Rana Muhammad Daniyal (Advisor HRM – NESPAK), Mr. Imtiaz Ahmed (GM PDC) and Mr. Husnain Ahmed Khan (Consultant HRM) were the resource person of the training programme. The main objectives of this course were to acquaint officers with knowledge of latest strategic HRM techniques, and train them in the globally practiced HRM techniques tailored to PAF practices. This was followed by a three-day customized training program on "Ansys" for the professionals of KRL was organized on May 16-18 at Super Computer lab in RCMS, NUST. Dr. Khurshid Alam, Assistant Professor, was the resource person of the said workshop.

The aim of this workshop was to understand the basic theory of Mechanics of Materials, Heat Transfer and Finite Element Method (FEM) with applications to ANSYS and learn how to use an ANSYS software tools in achieving the defense industry goal and meet their visualization internationally. The closing ceremony for the last two trainings was chaired by Pro-Reactor RIC Engr. Muhammad Mushtaq, Principal RCMS Engr. Sikandar Hayat Mirza, and Principal NILE Mr. Syed Muhammad Raza.



## Workshop on conflict Resolution



Conflicts are inevitable because different people have different perceptions, experiences and ways of achieving goals. Conflict resolution is not easy, but is crucial to settle disputes before they create an emotional war zone at work places. Learning how to deal with conflicts and resolve them effectively is becoming more and more significant to maintain healthy work environment.

Keeping in mind the need to make NUST a better work place for all, the Centre for Counseling and Career Advisory (C3A) took the initiative to offer a two hour workshop on "Conflict Resolution" for officers of all directorates of HQ NUST. The presentation highlighted the types and causes of conflicts at workplaces, difference between functional and dysfunctional ways of resolving conflicts and strategies to resolve conflicts effectively.

Participants were given an opportunity to assess their conflict resolution styles with a standardized test. Emphasis was made on successful negotiation skills and healthy ways of handling conflicts with bosses, colleagues and subordinates.

## Session with World Intellectual Property Organization

A session was held on June 27 with Director, World Intellectual Property Organization (WIPO). Notable figures from Intellectual Property Organization-Pakistan also joined the meeting. Rector NUST presided over the session and the main agenda was to discuss possible way outs for collaborating with WIPO for capacity building within NUST. It was conversed that we need to establish effective Technology Management Offices at NUST to enhance human resource in the field of Intellectual Property Management. An international seminar will also be conducted through the support of WIPO in a few months. Design of the curriculum for technical and commercial purposes was also discussed. WIPO will also support us in the development and design of the IP curriculum. NUST school principals were convinced that an IP related course is a must. It was agreed during the meeting that WIPO will also provide training to NUST workforce in order to strengthen IP expertise.

## Signing Ceremony of Enterprise Technology Transformation Project (ETTP)

NUST organized a signing ceremony of the Enterprise Technology Transformation Project on June 13, 2012, thus achieving a significant milestone not only for the University but also for Oracle and their implementation partner, Techlogix. Rector NUST, Engineer Muhammad Asghar, Regional Managing Director, ASEAN & SAGE at Oracle Corporation, Mr. K. Raman, Vice President Applications ASEAN at Oracle Corporation, Mr. Shaun Han, Managing Director, Oracle Pakistan, Mr. Ahsan Javed and Co-CEO Techlogix, Mr Salman Akhtar graced the occasion as distinguished guests. Mr Saleem Iftikhar, Director ICT NUST, presented a brief overview of the ETTP. He mentioned the manifold challenges confronted by the university and highlighted the ways ETTP was helpful in meeting those challenges. He was of the view that NUST was on its way to take another leap forward in attaining its vision of truly transforming into a forward looking, centre of excellence, comparable to the best, around the world.

Regional Managing Director, ASEAN & SAGE at Oracle Corporation, Mr. K. Raman, Vice President Applications ASEAN at Oracle Corporation, Mr. Shaun Han and Co-CEO Techlogix, Mr Salman Akhtar also highlighted the visible technological growth in Pakistan and explicated ETTP prospects for the University. Later, Rector NUST remarked that student of the day was more informed as they had an open access to abundant learning resources. However, the entire academic programme required experiencing a revolutionary transformational phase. He further added that internationalization was the need of the hour as the universities desperately required establishing links with renowned universities across the globe. He envisioned the role of the universities in globalized settings by paving the way through technological transformation for others to follow.





### Delegation from Command & Staff College, Quetta

A seventy-member delegation from Command & Staff College, Quetta visited NUST on April 20. The delegation was headed by Col Syed Imdad Hussain Shah. The briefing session was chaired by Pro-Rector (Academics), Dr Asif Raza. The delegation was briefed about the genesis of NUST, its institutions, existing programs, research activities, and future plans. After the briefing, there was question-and-answer session which was chaired by Rector NUST, Engr Muhammad Asghar. Later, the delegation was conducted a campus tour of the university.



### Delegation from International Telecommunications Union, Geneva

A five member delegation from International Telecommunications Union visited NUST on May 10. Upon arrival, the delegation headed by Secretary General Dr. Hamadoun I.Toure held a meeting with the Rector NUST and also met with the Pro-Rector RIC, Chief Strategy Advisor and Director Student Affairs.

The International Telecommunication Union (ITU) aims to impart training to Pakistan and other member countries in issues ranging from telecom policy to regulations. Realizing the need to push more towards telecom research and development work within the country, he emphasized that these standards may be imbedded in the R& D structure of the University. He briefed the University that the goal of the policy makers should be to increase the rate of transfer of technology from abroad, broaden the pool of local skilled workforce and accelerate the local production of telecom equipments.

Their visit had a two-pronged aim: first, to give a special briefing on the operational mandate and mission of the ITU to NUST students, and finally, to inform and meet with the students interested in collaborating with ITU that would also strengthen the cooperation between Pakistan and ITU.



### USAID Mission delegation

A two member USAID Mission delegation led by Ms Karen L Freeman (Deputy Mission Director) visited NUST on 2nd May, 2012. The delegation was briefed on genesis of NUST, its institutions and programs. The delegation was apprised of NUST's initiatives on research, internationalization, innovation & entrepreneurship and community service.

The delegation later visited NUST Business School, Centre for Energy Systems and Centre of Innovation & Entrepreneurship.





## COMKAR visit PNEC

Commander Karachi, Rear Admiral Khawaja Ghazanfar Hussain SI(M) along with CTA, CT (WE) and staff visited Pakistan Navy Engineering College ,PNS Jauhar on May 29. Deputy Registrar delivered a detailed presentation of the College in Conference Room followed by a walk round the college.



## Dr. Emad Felemban, Saudi Arabia Visits

Dr. Emad Felemban visited NUST on May 30 . Dr. Emad Felemban is an assistant professor at the College of Computer and Information System in Umm Al-Qura University, Saudi Arabia. He is specialized in Wireless Networks and more specifically in Wireless Sensor Networks. The purpose of the visit was to have discussions on the ongoing projects between Umm Al-Qura University and CoNNekt lab at SEecs. He is jointly working with Dr. Saad Qaisar, Assistant Professor in the department of electrical engineering at NUST. The projects being worked on include the underwater monitoring of coral reefs in the red sea and the oil and gas pipeline monitoring system. The visit included meetings with Pro-Rector Academics, Pro-Rector RIC whereby it was deliberated on how to induce further research opportunities between the two institutions. Dr. Emad also had meetings with Dr. Arshad Ali, Principal SEecs and other senior faculty members. Dr. Saad Qaisar was then taken to Monal for Dinner, where they presented him with a gift as a reminder of the hospitality of the Pakistani people. The members of the joint team working with Dr. Emad in Pakistan were also present. These included the Team Lead and software engineer, Hussnain Shahid and Aamir Zafar and the Management Associate, Asim Rehman Kamali.

Dr. Emad admired the extensive amount of research activities undertaken at NUST and SEecs in particular, He left NUST with confidence in the work being done and optimism about the further efforts between the two institutions.



## Delegation from Frontier Education Foundation Academy (FEFA), Peshawar

A forty-seven member delegation from Frontier Education Foundation Academy (FEFA), Peshawar visited NUST on June 14. The delegation was headed by Mujahid Hassan Suri, Director FEFA. The briefing session was chaired by Pro-Rector (Academics), Dr Asif Raza. The delegation was briefed about the genesis of NUST, its institutions, existing programs, research activities, and future plans. After the briefing, there was question & answer session in which visitors asked questions related to their interests. Later, the delegation visited NBS and had a campus tour of the university.



## Delegation from HEC and Bangladesh

A twenty-three member delegation comprising HEC staff, one Professor and twenty Bangladeshi students visited NUST on June 14. The delegation was headed by Ms Ghayoor Fatima, Director Academics HEC. The briefing session was conducted at NUST School of Electrical Engineering and Computer Science by Engineer Habeel Ahmed – HOD EE department. Later, the delegation visited the research laboratories of NUST School of Electrical Engineering and Computer Science.



### NUST 7th Postgraduate Convocation

Over 700 scholars received degrees in the disciplines of engineering, medical sciences, management sciences, information technology, physics and mathematics during the 7th Postgraduate Convocation of NUST held on April 19. The ceremony was attended by a large number of civil and military officials, and parents and families of the degree recipients.

A total of 686 MS and MPhil scholars were conferred degrees in their respective fields while 20 were awarded PhD degrees. Furthermore, 58 scholars were awarded gold medals for their distinctive performances in their respective areas of study.

NUST also has the tradition of acknowledging the meritorious contributions of its esteemed faculty towards academic and research pursuits by conferring Best Teacher and Best Researcher awards. At the occasion, Professor Dr Khalid Parvez (RCMS) and Professor Dr. Athar Masood Ahmad (NBS) were awarded Best Teacher awards for the years 2010 and 2011 respectively. Similarly, Associate Professor Dr Rafiq Muhammad Chaudhry (NIT-SCEE) and Associate Professor Dr. Hafiz Farooq Ahmed (SEECs) were awarded Best Researcher awards for the years 2010 and 2011 respectively.

Dr. Javaid Laghari, Chairman HEC, graced the occasion as the chief guest. After awarding degrees and medals to the successful scholars, the chief guest delivered a motivational speech to the august audience. He extended his warmest felicitations to the degree holders, their proud parents and the esteemed faculty. He also appreciated the management and visionary leadership of the university in providing quality higher education in Pakistan.

Counting the achievements of NUST made in a short span of time, the chief guest termed the University a national asset dispensing its duties with a team of committed professionals. He eulogized NUST for instituting a system geared up for the provision of a congenial environment for the holistic development of the students. He went on to mention that NUST was significantly contributing to the evolution of a knowledge-based socio-economic culture in the country to help the nation face the modern challenges of globalization.

He advised the learned scholars to make optimal use of the expert knowledge gained at the university towards its applications in a number of diverse fields. He cajoled them into focusing to benefit from the modern technology and to keep themselves abreast with the latest developments occurring in their respective domains. The chief guest motivated the recipients of the highest degrees to aim at excellence and carve out a niche for themselves in the career of their choice.

Earlier, Rector NUST Engr. Muhammad Asghar presented a brief summary of the University's achievements to the distinguished gathering. The Rector congratulated the degree holders on their remarkable achievements. He also remarked it was a good omen that the number of female scholars in multiple disciplines was increasing with every passing year. At the end, he wished the degree recipients all the best in their future endeavours.





## CAE-NUST Convocation

### 56 engineers graduate with a promising future

As many as 56 graduates in the disciplines of Aerospace and Avionics Engineering received degrees in an impressive convocation ceremony of 72nd Engineering Course of the College of Aeronautical Engineering, held at PAF Academy on April 12.

Rector NUST Engr. Muhammad Asghar graced the occasion as the chief guest, who conferred degrees upon passing out graduates and also awarded merit certificates and gold medals to the distinction holders.



Merit Certificate for best Aerospace Vehicle Design was awarded to Pilot Officer Syed Zaid Mustafa Naqvi, while Merit Certificate for Best Avionics System Design was awarded to Pilot Officer Junaid Bin Naeem. Rector's Gold Medal for Best Project in Aerospace Engineering was awarded to Pilot Officer Muhammad Umar Farooq. Rector's Gold Medal for Best Project in Avionics Engineering was bestowed upon Pilot Officer Humaira Razzaq. Whereas,

President's Gold Medal for standing first in Aerospace and Avionics disciplines were awarded to Pilot Officer Nabeel Bhatti and Flight Lieutenant Muhammad Asim Jan respectively.

Later in his address, the chief guest extended his heartiest felicitations to the jubilant graduates, their parents and the erudite faculty. He said that rapid advancements in the field of aviation technology were making the profession

of aeronautical engineers more challenging. Therefore, he added, they must always remain well poised to take on every challenge and explore new benchmarks of excellence. He cautioned the graduates that being Aeronautical Engineers they had no room for shortcuts or adhoc solutions. He said that their profession required mathematical precision and scientific accuracy, which could only be achieved with devoted study and continued research.

## Dr. Atta-ur-Rahman graces 'Meet the Scientist' programme at NUST

In continuation of giving exposure to NUST students of how the country's eminent scientists created a niche for themselves, NUST Science Society conducted another fruitful session of "Meet the Scientist" programme with Dr. Atta-ur-Rahman, a world famous Pakistani scientist and Fellow of Royal Society of Chemistry, at the main campus on May 16.

Dr. Atta-ur-Rahman is an iconic figure in the field of chemistry and is especially known for his unmatched research endeavours in various areas relating to natural product chemistry. With over 840 publications in the field of his expertise, he is also credited for reviving the higher education and research practices in Pakistan.

The legendary scientist's speech during the programme kept the jam-packed audience enthralled as it narrated the enviable success story surrounding his illustrious career. The founding chairman of Higher Education Commission also highlighted how the Commission, since its inception, had contributed to the development of higher education in the country. He said before the establishment of HEC



there were around 60 universities in Pakistan, adding the figure had now jumped to 150.

Dr. Atta-ur-Rahman said Pakistan badly needed a contribution from engineers and scientists towards national development. He eulogized NUST for producing competent scientists and researchers playing vital role in their respective fields. Later, the renowned guest had an interactive session with students and faculty in which the former replied to various queries of the latter.

In his remarks, Rector NUST Engr Muhammad Asghar thanked the legendary scientist for sharing some of his knowledge and experience with students. He particularly mentioned his invaluable support to NUST school of Applied Biosciences, recently named after the great scientist.



## Lecture on Effective Life Management, Coping Skills at College of E&ME

Life presents us with many challenges that test our ability to cope. During daily interaction with one's environment people can run into all sorts of situations that can cause stress. Students of this era are no exception. The Centre for Counseling and Career Advisory (C3A) delivered a lecture on "Effective Life Management; Coping Skills" on May 16 at the College of Electrical & Mechanical Engineering (E&ME) on the request of NUST Volunteers Club (NVC). Almost 90 participants including faculty, students attended the lecture.

The presentation highlighted the impact of different anxieties and frustrations of everyday life on stress levels. Students were briefed about psychological wellbeing which was termed as multidimensional, more than simply being just happy, healthy, or successful. Fearing failure is natural but how it hinders attaining success was also discussed; and facing and coping with failures or shortcomings in life addressed. Tips were given on effective life management; to increase positive thinking and to raise self-esteem. Risk Management was one of the salient features of this presentation that focused on identifying red flags and reducing the impact of stressors on our lives. Participants were encouraged to be creative, set goals and take risks in life. A balanced approach was termed as a keystone behind contented life.



## NEC arranges tree-plantation drive

NUST Environment Club, Institute of Environmental Sciences and Engineering (IESE) took another step towards the betterment of Environment by arranging event "Tree Plantation 2012 One Person – One Tree." The purpose of this event was to enhance the knowledge of people about the importance of plants and trees in our life. Rector NUST Engr. Muhammad Asghar was the chief guest. Rector, Pro-rectors, Principal of School of Civil and Environmental Engineering (SCEE), faculty members and all the executive members of NEC planted a total of 97 trees. In this plantation event, small kids of day care center NUST also participated. They all were attired in beautiful dresses displaying environmental friendly messages. The event was held in collaboration with NUST Community Service Club who played a vital role in the success of the event.



## 14th PNEC Open House and Job Fair

Pakistan Navy Engineering College (PNEC) organized an Open House and Job Fair on June 14 for the graduates of BE Mechanical, Electrical, Electronics and Industrial & Manufacturing Engineering. The projects prepared by the final year students were displayed. Out of the 97 renowned companies invited, 33 industries participated in the event. SUPARCO, Wavetech and IBM Pakistan representatives guided the graduates for interview and resume writing skills through presentation. Whereas, Dawlance (Pvt) Ltd conducted a written test. SUPARCO also conducted a written test on 21 June for outgoing fresh engineers batch 2012 of Electronics, Electrical, Mechanical

and Industrial & Manufacturing Engineering, 73 students appeared in the written test.



## College of E&ME shines in NERC 2012

College of Electrical and Mechanical Engineering organized the National Engineering Robotics competition from June 21-23. NUST organized this event in collaboration with STEM Career Program, HEC and Pakistan Science Foundation (PSF). The Chief guest, Dr. Muhammad Akram Sheikh complimented the efforts put in by CEME. Commandant College of E&ME Major General Obaid Bin was also present on the occasion.

NERC is responsible for providing a platform to students and enthusiasts to come forward with innovative engineering ideas. This year, 173 teams participated from all over Pakistan; a number that has increased greatly over the years. There was a Robotics category and a Lego Category in competitions where all teams participated.

On 23rd of June, the closing ceremony was held and the chief guest, Dr. Akram Sheikh distributed prizes among the winners of different categories. 1st runners-up NERC 2012 Shield with a cash prize of Rs 75,000 was awarded to NUST College of E&ME team, MCP. Winners of NERC 2012 shield and a cash prize worth of Rs125,000 was awarded to the team lead by Hamza Abeer. Modular Category with cash prize of Rs25,000 was awarded to NUST College of E&ME team, Rover. Best Engineering Design award worth a cash prize Rs30,000 each were awarded to Shockwave from

CIIT, Knight Fury from GIKI and Karma's Canon from NUST. 2nd Runners-up for NERC 2012 Shield with cash prize of Rs 50,000 was awarded to a team ROBO BLITZ from College of E&ME. The students from NUST outshone all others in the competition.



## BioReach Society brings an Informative Talk on Polio

True to its slogan "Empowering the researcher, enlightening the public" BioReach society of ASAB initiated the first leg of its Polio Advocacy Campaign at the School of Mechanical and Manufacturing Engineering on May 21, 2012. A team of 8 people including the speakers, Fatima Riaz and Hussain Asif, conducted the session for the benefit of the student population of SMME and the talk centered on the "Polio Ends Here" Campaign initiated in collaboration with the Global Poverty Project.

Hussain Asif was the first speaker and he informed the mechanical engineers about the nature of the polio virus and its transmission. This was closely followed by Fatima Riaz's presentation which focused on the epidemiology of the virus and how the Pakistani youth can contribute to its elimination. After a prompt Question and Answer session, audience was asked to fill a volunteer form which was very enthusiastically filled by almost everyone.

Photo petitions were collected in which students from all batches of SMME participated and the session was wrapped up with a group photograph of the entire BioReach team in attendance. The highlight of the event was the dedication and passion displayed by the BioReach team for their cause and the receptive attitude of the SMME administration and student population. One can only hope to see such events more often where knowledge is exchanged and inter-department interaction is brought to a new level.





## Graduation Parade at PAF Academy, Risalpur

An impressive Graduation Parade was held at PAF Academy, Risalpur on April 18. Air Chief Marshal Tahir Rafique Butt, HI(M), T Bt Chief of The Air Staff, Pakistan Air Force was the Chief Guest at the occasion. The chief guest reviewed the parade, presented the Quaid-i-Azam Banner to the Champion Squadron and awarded trophies and Swords of Honour to the distinction holders. Chairman Joint Chiefs of Staff Committee Trophy for General Service Training in College of Aeronautical Engineering was won by Pilot Officer Atta-ur-Rehman, while Chief of the Air Staff Trophy as well as the coveted Sword of Honour for Best Performance in Engineering Discipline was awarded to Pilot Officer Faizan Ul Haq Rajput.



While speaking on the occasion the distinguished Chief Guest said, "PAF has some highly sophisticated aircraft, air defense systems and other supporting equipment that will be assigned to your care as sentinels and custodians of the country's aerial frontiers. To keep this precious asset in the highest operational state, and accrue maximum advantages out of it, it is incumbent upon every one of you to exercise your professional acumen and technical expertise to the maximum". The ceremony concluded with an immaculate

march past, followed by a thrilling display of aerobatics by the K-8 team, 'Sherdils' and Para Motor Gliding by the Academy Para Motor Gliding team.

## Polio Advocacy Campaign

Polio has been paralyzing children across the globe for too long. The development of modern vaccine technology has helped us slice that number by 99%, but that last 1% still remains. With Pakistan being one of the last three countries with endemic Polio, and at the risk of being the only reservoir, BioReach Society at ASAB has taken an initiative to help eradicate polio from Pakistan with the formation of its Polio Advocacy Campaign.

The aim of the campaign is to empower the public with knowledge about the disease and efforts being made to wipe it off the face of the Earth. Keeping in line with this agenda, on May 24, Ms. Saria Younas from the World Health Organization was invited to shed some light on the current state of Polio in Pakistan. Ms. Younas is currently the Federal Campaign Support Officer for the Polio Eradication Initiative at WHO.

With the number of cases half of what they were last year, the eradication efforts seem to be going in the right direction. Various socio-political elements have however marred the effectiveness of immunization campaigns in parts of KPK and Balochistan. In the comments made by



Ms. Younas at the event, she sounded hopeful regarding the progress being made by immunization teams. The event ended with her commending the effort and inviting the students of ASAB to act as third party observers for the Polio immunization drives, in order to expose the team to the elements of active campaigning.



## Astronomy Night: An Eye to the Lens



NUST Science Society (NSS) organized the much awaited 'Astronomy Night' on May 14. The event was designed as an interactive session for students to get acquainted with progression in the fields of Space and Upper Atmosphere Research. For this purpose the audience was joined by Brig. Mubashir-ul-Haq Abbasi, an Electrical Engineer from UET, Lahore.

Brig. Abbasi, committed to his keen interest in astronomy and his ambition to instill a finer understanding of the subject among the youth, has delivered talks at Institute of Space and Technology (SUPARCO) and authored related publications. His lecture educated the students and faculty regarding the threat of asteroids and comets falling on Earth in the coming year. He also shed light on the perennial controversy of moon sighting in Pakistan and its solution and popular software packages like hnsky, mooncalc and stellarium.

It was with infinite delight that the young astronomers got a chance to view the Stars up close through a telescope which was gratefully given by Pakistan Astronomers Society (PAS) for the night. The top notch gear included; 5" Maksutov Cassegrain Telescope (Meade ETX125) on an Altazimuth mount, 80mm ED Refractor Orion EON Telescope on an Equatorial mount, 4.5" Newtonian reflector on a non-computerized equatorial mount and a 10" Dobsonian.

The atmosphere was quite a festive one, as the young astronomers feasted on the stalls and the students got a chance to enjoy the beautiful clear skies of May, having a close look at the stars.

## NUST Environment Club holds seminar on Coral Reefs in Pakistan

NUST Environment Club, SCEE arranged an inspiring seminar on "Coral Reefs in Pakistan- A Diver's Story" on April 27. Lt. Cdr (R) Tariq Mahmood shared his exhilarating story of being the pioneer who discovered coral reefs in Pakistan. He threw light on the dire conditions of reefs because of pollution level in the Arabian Sea and how it would affect marine life specially the sea food. He served Pakistan Navy for 28 years and rendered his services as professional diving officer.

An expedition team comprising Pakistan Wetland Program (PWP) divers headed by Lt. Cdr (R) Tariq Mahmood PADI Instructor under the supervision of Ahmad Khan Director Regional Program, conducted a survey of the possible coral sites in February, 2011 and discovered large area of deep sea corals near Gwadar. The coral reefs are

habitat of a number of sea animals. They form a diverse yet fragile ecosystem. The coral reefs in Pakistan are at the verge of non-existence. Add a decade or two from now on and the reefs would be completely depleted leaving a big question mark about the protection of marine life. The seminar was organized in order to bring consciousness about the rapidly depleting coral reefs. The 120 attendees left IESE's seminar Hall with an aim to spread the word & to take practical steps towards the protection of coral reefs, a priceless gift.



## IGIS holds seminar on Disaster Risk Management

A seminar was arranged by Institute of Geographical Information Systems (IGIS), NUST School of Civil & Environmental Engineering on “Use of Geographic Information Systems in Disaster Management – Case Studies”. It was held at RIMMS Seminar Hall, main campus, Islamabad on April 2. Mr Yawer S. Ansari, Head GIS Department, Disaster Management and Reconstruction Division, NESPAK was invited as a guest speaker to enlighten the audience on the topic.

He explained the basic concepts of hazard mapping, risk assessments and management of disaster. The need for microzonation for safer land use planning was shared with the participants of the seminars. He further discussed the



benefits of using GIS for mapping and as a basic data storage tool in disaster risk management programs as it gives a very obvious and clear insight on the risks involved in an area. Relevant internship and job placement options were also discussed by the guest speaker at the end of seminar.

## HL7 Pakistan organize seminar: “Challenges & Opportunities”- SEECS

SEECS- Health level Seven (HL7), Pakistan Student Chapter organized a seminar titled “HL7 Pakistan: Challenges & Opportunities” on May 28 at NUST-RIMMS seminar hall. This student chapter assists HL7 Pakistan in conducting various activities related to training, certification exams and workshops in the domain of e-Health and HL7 standards. Chairperson HL7 Pakistan, Dr. Hafiz Farooq Ahmad was the speaker of the seminar.

Mr. Ahmed Ali Raza, President SEECS HL7 Pakistan Student chapter, started the session after giving short introduction on HL7 Pakistan and then Dr. Hafiz Farooq Ahmad delivered his talk. He highlighted the importance of HL7 Pakistan in healthcare, and briefly explained the projects that have been completed or are under progress through HL7 Pakistan. He also shared his team’s work and achievements in research and healthcare industry.

The informative session was followed by an interactive question and answer session that helped in providing a better understanding of various concepts on e-Health and HL7 standards. Dr. Hafiz Farooq Ahmad presented the certificates to the passing out students of SEECS-HL7 Pakistan Student Chapter. He also advised the students to become a part of HL7 Pakistan student chapter for the sake of learning and promoting health care standards.

## Four-day Workshop on Security Information and Event Management - MCS

Department of Information Security, Military College of Signals organized a four-day workshop on Security Information and Event Management (SIEM-2012) using OSSIM from 24–27 April 2012. This workshop was second of its nature and was the continuation of first workshop (SIEM-2011) held on 20–23 Jun 2011 to further strengthen the practical skills. Ibn Khaldun Systems, Karachi was invited to conduct the workshop. Main theme of workshop was to equip students and security professionals with skills and knowledge required to implement and operate a Cyber Security Operation Center (CSOC) by utilizing a SIEM solution. This was an attractive workshop for the organizations and professionals working in the area of Information Security. It was attended by professionals from reputed organizations, faculty members and students.





## Students display their projects at MCS Open House

**M**ilitary College of Signals held its Open House on May 16. Graduating students grabbed the opportunity to display their final-year projects in the field of telecom and software engineering. More than 200 attendees from industry, business and academia were present on the occasion. The event established a liaison between institution and industry to find opportunities for future graduates in competitive market.

Commandant MCS, Major General Shahid Maqbool, opened the day with a welcome message and said that the event was a platform for potential employers and our talented graduating students to come closer and share their mutual interests. He applauded the efforts of the faculty in guiding the students to present the current trends in research and technology in exciting and accessible “science-fair” atmosphere.

Graduating students displayed more than 55 project stalls to exhibit a broad spectrum of practically and commercially viable telecom and software projects. Leading business practitioners and professionals from corporate industry had set up their Recruitment Booths. They shared their organizational requirements with the graduating students and conducted follow-up interviews.

At this occasion the chief guest, Rector NUST, Engr. Muhammad Asghar, said that engineering plays a pivotal role in the progress of a nation. Such events reveal that there is no dearth of talent in our country. Our youth is translating their inquisitive vision into useful innovation and contributing in provision of solution to society at large. He also appreciated the efforts of MCS faculty in organizing the event to induct their students in their professional careers.



## E&ME conducts workshop on Adobe Photoshop and Autodesk Maya

**A** workshop was conducted on Adobe Photoshop and Autodesk Maya at SEECS on April 7. It was organized by the American Society of Mechanical Engineers, ASME Student Chapter, E&ME College. The event coordinator of the workshop was Mohammad Zeshan Ashraf, from Mechatronics Department at E&ME. In the end awards were distributed among the participants.





## *Leadership in the 21st Century: A lecture by Asad Umer*

**A**sad Umer, former CEO Engro Chemicals said that in this century of intangibles, technology and networking, the success of any organization or a nation comes from maximizing potential of its people.

Mr. Umer immediately captivated the young crowd with his voice depicting the youthful idealism of today's generation. With his words, he dispersed the stereotypical assumptions that cling to the term 'leadership' and explicitly expressed how the meaning of word could vary from person to person. When he took over as President and CEO of the company in January 2004, Engro was largely just a fertilizer manufacturer with a small petrochemical subsidiary. Under his leadership for 8 years, however, the company turned into a diversified industrial conglomerate, with interests ranging from fertilizers, foods, petrochemicals, chemical storage, etc. He discussed different aspects to leadership that accounts for the success of an organization. Among others, he said that the most important is for an organization to have a ruthlessly merit based system that follows strict Human Resource practices, without any discrimination.

"To be a great leader is no different from being a great human being", said Mr. Umer. He said that a strong and clear vision is important for a leader to energize its people. This vision, in effect should be supported by a clear set of values and ethical practices. According to him, the key to achieving the leadership qualities that all students strive to possess comes from deep analysis of the experiences of one's own life and it is necessary for every individual to self-evaluate himself or herself. "Real leadership comes from the heart. You only exercise leadership when you truly care about something."



## *EME NUST Organizes Open House*

**W**ith a view to introducing passing out engineers to employer representatives and giving them a sneak peek into current market trends, NUST College of Electrical & Mechanical Engineering organized an Open House along with a job fair at the college premises on June 25. Federal Secretary for Ministry of Professional and Technical Training, Mr Qamar uz Zaman Chaudhary, was the chief guest at the occasion. The event facilitated industrial representatives and budding professionals with an opportunity to intermingle where the former could choose suitable employees for their respective enterprises and the latter endeavour to showcase their innovative ideas translated in well-designed projects.

Speaking at the occasion, the chief guest emphasized the urgency of excelling in the fields of science and technology. He eulogized the students for putting to display their innovative projects and cajoled them into exerting energies in research and exploration. He further said that such events helped bridge the gap between the academia and the industry. He welcomed the representatives of leading organizations urging them to work hands in gloves with the universities towards addressing the contemporary challenges facing the country.



## *National Priorities Research Program (NPRP)*

### *SEECs faculty wins research grant from QNRF*

Dr. Osman Hasan (NUST SEECs) along with Prof. Dr. Sofiene Tahar (Concordia University, Montreal, Canada) and Dr. Mohamed Salah Hamdi (Ahmed Bin Mohammed Military College, Qatar) have won a USD 0.922 million research grant from Qatar National Research Fund (QNRF under its National Priorities Research Program (NPRP)).

This collaborative research project, entitled "Formalization of Information Theories and Application in Safety-critical Engineering Systems", will commence in early 2013 and will continue for three years. The project primarily focuses on developing novel formal methods, i.e., a computer-based mathematical technique, and probabilistic artificial neural networks (PNN), to facilitate the accurate and precise performance and reliability analysis of engineering systems that exhibit probabilistic behaviour. This feature is very useful in the design and analysis of safety-critical systems, such as medicine, transportation and space missions, where an erroneous analysis could result in heavy financial losses or even in the loss human lives at times.

## SEECs Open House

NUST (SEECs) conducted an Open House on June 20, 2012. Mr Fanyunjun, CEO, Zong graced the occasion as the chief guest while Pro Rector NUST Engr Mushtaq was the guest of honour.

After the inauguration of Open House, both the esteemed guests had a brief tour of the Flagship projects. The projects displayed by the students were indicative of their innovative potential and competence especially the project 'Musical Fountain' displayed by one of the groups grabbed the attention of all present there.

The emphasis of the Open House was to get the employers and leaders in business, industry, education or services well-acquainted with graduating NUST students from IT, Communication Engineering and Electronics Engineering programs and make them well aware of their multi-faceted potential. The industrial representatives had direct interaction with extremely talented youth of the nation to assess their suitability for various national business and industry streams getting them exposed to existing and future market needs. The Evaluation Committee, throughout the proceedings of the Open House, remained engaged in a gruelling task of assessing the best ones out of a number of phenomenal projects and later in the day announced the results.

Later, the chief guest appreciated the potential of SEECs students and was of the view that every possible effort should be made to exploit their novel ideas by magnifying them globally at the broader canvas.



## MCS organizes Workshop on Satellite Communication

A two day workshop on Satellite Communication was held at Military College of Signals from April 26-27. It was attended by a large number of eager participants both from academia and industry. After the preliminary introductory session by Lt. Col. Adnan A. Khan, Mr. Hamid Nawaz, COO SUPERNET, gave an insight into the competing technologies for communication generally and satellite communication especially. The lunch was served and the participants reassembled for hands-on experience of setting up a Satellite Site. MCS has its own Satellite set up, which was viewed by the participants with great interest. The workshop continued the next day, which was conducted by Mr. Ali Akhtar of SUPERNET who demonstrated how to perform a digital link budgeting. The second session was on emerging trends in Satellite Communication. Due to diversity of participants and their interest, this session soon turned into a question answer session rather than a lecture. In the end, a practical demonstration of setting up a link was given to participants and they lost no time in doing it themselves.





## Freehand drawing workshop held at SADA

NUST Fine Arts Club organized a Free Hand Drawing workshop for students to hone their drawing skills and sharpen their artistic perception. A renowned artist, Aleem Dad facilitated the workshop held on April 7 at School of Art, Design and Architecture (SADA). The workshop aimed towards increasing the student's observation skills and making them aware of the constraints faced in drawing.

Under the guidance of Mr. Aleem Dad, students learnt the basic drawing techniques and their applications were also discussed and practiced by the students. The workshop dealt with the subjects of setting up your own useable workspace, fundamental drawing and sketching skills, proportional judgment techniques (the heart of freehand drawing) with practical drawing exercises to explain this most important aspect, perspective, depth of field, composition, subject selection and capture, light and dark (chiaroscuro), and the art of suggestion. The workshop helped the students not only in polishing their drawing skills but also to be able to get their ideas onto paper more effectively.



## Quest for Titles: Talent hunt initiative attracting students

A frisky talent hunt with the name of "Quest for titles", organized by Military College of Signals was an attraction for many talented students to showcase their potential. The event spanned for over 3 weeks from April 12-26. The event was a big success where students performed different skits and items and enthralled the audience with their talent.

The event consists of a total 9 categories of which the most popular were Artist, Writer and IQ Specialist. 3 challenges were set for each category and to ensure impartiality both in-house jurors as well as external jurors were invited.

On announcing the talented winners, Anas Bin Saif and Aaiza Umar emerged as Urdu and English Writers while Asad Ahmed claimed the title of Artist. Where on the other hand, Ahtsham Khawaja was crowned IQ Specialist and Muhammad Saad Zia was given title of a Scientist.





## Zaki earns second place in Rock climbing Nationals

A team from NUST Adventure Club participated in the National rock climbing competition, held at Islamic International University. The event was organized in collaboration with Higher Education Commission (HEC). Students from all over Pakistan took part for the top honors on May 1 and showed keen interest in the climbing gale. A team headed by Syed Zaki ud din, an active climber from NUST Adventure Club participated and secured second position in the speed climbing competition with only a difference of 3 seconds, while a student from Islamic University stood first. Prize distribution ceremony was held and shields and trophies were distributed among the winners.



## Students' enthusiasm palpable in Scavenger Hunt'12- SCME

Numerous students from NUST campus gathered to participate in the Scavenger Hunt: 'Chase-A-Trace'. The challenge was designed like a puzzle, with the pieces being a set of interrelated clues, which were spread across the H-12 campus. In teams of five, the contestants were required to complete the mission following the clues. The fun-filled event organized by the NUST Science Society, incorporated elements testing the participants' knowledge of basic science and common sense. The question of the day proved to be 'Gallus Gallus wrapped in off white circle', and the answer was simply a Shawarma, Gallus Gallus being the scientific name in taxonomy of a chicken! An infiltration of mischief was inevitable as the contestants' singing abilities were tested in order for them to get the next set of clues. Knowledge of the nature of different buildings in H-12 was also important, with hints like 'the zoo of H-12' pointing to the animal lab at Atta-ur-Rehman School of Applied Bio-sciences.

Top three teams were chosen on basis of maximum tasks accomplished in minimum time and were awarded cash prizes.





## MCS organizes Pantomime 2012

MCS Training Battalion organized Pantomime 2012 on May 18 to bid farewell to graduating/ outgoing courses of TCC-20 & BESE-14. Pantomime traditionally is the last extracurricular event of the academic year which provides quality entertainment to the audience including faculty members, families, and the students.

Major General Shahid Maqbool, Commandant Military College of Signals graced the event as chief guest. The event was organized in NS Auditorium which was exquisitely decorated with a colourful Casino theme. The event started with the recitation of Hamd-e-Bari Taala, followed by opening speech of the president of pantomime. Subsequently, the medals were given by the chief guest to the cadets standing best in various categories viz. Best in Academics, Overall Best NUST Cadet, Overall Best Military

Cadet, Best in Sports, Best in Extra-curricular Activities, and Special Performance Medal; these awards were respectively won by NC Sidra Javed, NC Rabia Sultan Abbasi, CJUO Hamza Ishtiaque, CSUO Saad Bin Shafqat, SGT Waqas Ahmed and NC Omar Rehman.

The pantomime included heart touching motivational movie, colorful short skits based on life of students sprinkled with memories of senior students in MCS. Apart from dramatics; funny fillers, live musical performance and dance performances by the students also formed part of the show. A souvenir was also presented as a memorial to College by TCC-20 / BESE-14. Later in his address, the chief guest congratulated the cadets who performed exuberantly in the show.



## Intervarsity NUST Thematic Fest'12 - E & ME College

The twin-city event was held at College of E&ME from May 18-20 and was organized by "Shaur Club" which is the social awareness wing of NUST Volunteers Club. The event was organized with the aim of nourishing the minds of the youth by providing them a competitive environment to realize their potentials within and polish them.

The three day festival was innovatively designed with a blend of varied events incorporating wide-ranging interests and yet all in accordance with a theme offering life-long learning. To challenge creativity and learning; painting, calligraphy, sketching and creative writing competitions were arranged. To boost Problem solving and Research Orientation, students participated in Research-based Essay writing competition. There was a Quiz where students' proficiency in fundamental branches of knowledge was judged. An all time famous event Kasauti was arranged for the final qualifiers in this event.

Students from various Universities participated and displayed their skills at oratory, singing and presenting through Debates and cultural depiction events. Inspiring speakers and young professionals were invited to quench the students' thirst for knowledge.



### Students from IGIS excel in a competition by Geo-Wiki project

A team of students from The Institute of Geographical Information Systems (IGIS), SCEE performed brilliantly in a Land Cover Classification Competition-II conducted by the Geo-Wiki Project, which is a global network of Remote Sensing and Geographic Information Systems specialists who strive to improve the quality of global land cover maps. 51 teams participated in the competition including teams from universities in USA and Europe.

The aim of the competition was to generate global hybrid land cover dataset, and the team performing the highest number of accurate classifications within a stipulated time was to be declared the winner. The team comprised of Muhammad Athar Siraj, Asad Ali Baig, Ali Akbar Gillani, Ahmad Shahryar Nasir, Munawar Hussain, Ahmad Ammar, Muhammad Majid, Usman Tahir and Burira Anam. The IGIS team performed brilliantly at the competition and was ranked as the number 1 team on basis of its performance. The team has also been invited to join the prestigious scientific publication produced as a result of this competition.

IGIS at NUST, Islamabad is first of its kind higher education learning institute in Pakistan where state-of-the-art spatial education is delivered. The institute offers 4 years degree program in bachelor of engineering in Geo informatics, 2 years master program in GIS and Remote Sensing and is offering PhD, program from Fall 2012. The institute has well experienced teaching faculty holding PhD, MS degree from foreign Universities including USA, in various disciplines.



### Students from Mechatronics Department outshine competitors in All Pakistan Firefighting Robotics Competition, UET



Five students from College of Electrical and Mechanical Engineering, NUST bagged first prize in a recently held Fire Fighting Robotics Competition at the University of Engineering and Technology (UET), Peshawar. The Students of first semester from the Department of Mechatronics got first prize in the Modular Category. More than 20 teams from various universities participated in this competition.

The contest was a joint project to promote research in robotics and its related fields in Pakistan, providing a common environment for the integration and evaluation of various mechanical and electronics designs, control and path planning algorithms and agent architectures. The participating teams were tasked to create a robot from the ground up that would extinguish five candles in a pre-defined arena and the robot which would do this in the minimum time, would be declared winner. Students from NUST participated in two categories of indigenous Robot and Modular Robot.

Director Clubs at UET Peshawar lauded the team by describing their design as by far the best and told that their robot was the only one sufficing all the competition requirements. This shows the excellent competencies that our students possess and their ability to apply knowledge in practice which is imparted at the University.



## MCS achievement in COMPPEC 2012

All Pakistan Computer Projects Exhibition and Competition (COMPPEC), organized by Department of Computer Engineering, College of Electrical and Mechanical Engineering (E&ME) was held on June 27-28. It was sponsored by National Information and Communication Technology (ICT) Fund, Ministry of Information Technology. More than 45 Engineering Universities/Institutes participated and 110 R&D Projects were displayed in the competition.

Two student syndicates of Military College of Signals displayed outstanding projects and won prizes in different categories. A syndicate supervised by Major Dr Adnan Rashdi comprising of Ahtsham Khawaja, Rana Umar Majeed, Muhammad Farrukh and Umer Younas exhibited project titled 'Active Global System for Mobile Communication (GSM) Interceptor' and won 'overall best project' prize. It demonstrated real time monitoring of

GSM users using indigenously developed Global System for Mobile Communication (GSM) Interceptor. It was ingeniously designed to strengthen the law enforcement

agencies of Pakistan with an investigative tool in the fight against terrorism. The system can easily eavesdrop, record and analyze voice conversation and text messages of the victim mobile station.

Another syndicate supervised by Major Dr Naveed Iqbal comprising of Ali Anjum, Jawad Khalid, Sidra Javed and Mehreen Rehman presented project titled 'Electrical Energy

Radiations' and stood first in 'Electromechanical Systems Category'. Both the teams were awarded cash prizes of Rs 50,000/- and Rs 40,000 respectively along with COMPPEC 2012 memento and commendation certificates.



## NUST project stall wins 'innovation award' at PSF Invention to Innovation Summit-2012

NUST Stall won the "Innovation award" at the "invention to Innovation Summit 2012" organized by Pakistan Science Foundation, University of Punjab and Institute of Research Promotion. It was held on June 18 at the university of Punjab. The summit, in addition to seminars, included an exhibition of marketable ideas, technologies and products. The aim of the summit was to promote innovation and commercialization of research in Pakistan. Minister of State for Science and Technology Ms Raheela Shahaadat Baloch was the Chief Guest for the Opening Ceremony and the Exhibition.

Students from all NUST Colleges displayed their projects aiming towards improving the socio-economic development of the country with topics like, 'Solar hybrid water heating system for industrial application', 'Cheap production of Biopharmaceutical (HCV drug)', 'Removal of arsenic from drinking water', etc. The efforts of NUST in pursuing need based R&D was deeply acknowledge.

## MCS Faculty receives Research Productivity Award

Dr. Safia Akram, a faculty member at Military College of Signals was honored with the Research Productivity Award for the year 2011-2012 by Pakistan Council of Science and Technology (PCST) on account of her 10 research papers for the subject year in the field of Applied Mathematics.

She joined Military College of Signals (NUST) in 2009 and is serving as a Faculty member in Dept Humanities and Basic Sciences. Her research interest includes Applied Mathematics, Peristaltic flows, and Analytical and Numerical solutions of problems raised in Applied Mathematics, Duct problems in peristaltic flows, Heat transfer Analysis, Magneto hydrodynamics, Porous medium, Mass transfer and nano fluids.



## NUST scientist receives President Medal for Technology

The investiture ceremony for the award of the President Medal for Technology was held on May 28, 2012 at Islamabad Club in which Dr. Mohammad Bilal Khan, Principal Centre for Energy Systems (CES) was announced as the top recipient among the six technologists who were conferred with this prestigious award. Mir Changez Khan Jamali, Minister of Science and Technology presided over the ceremony and conferred the awards on behalf of the President of Pakistan.

The ministry paid rich tributes to Dr. Khan for his significant contributions in the field of energy, nano-composites and ablatives. While addressing the august gathering, the Minister acknowledged the contribution of scientists and



announced that the government policy on innovation and commercialization is ready for implementation and expressed his trust that the award winning scientists will contribute to industry and economy in their respective fields of expertise.

## Best Paper Award

A paper titled "Memory-Mapping Support for Reducer Hyper objects" co-authored by Dr Aamir Shafi from School of Electrical Engineering and Computer Sciences (SEECs) and researchers at Massachusetts Institute of Technology (MIT) was given the Best Paper Award at the 24th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), which is a leading conference in the area of parallel computing.



## Students from SEECs and NBS win positions at NASCON-2012

NUST SEECs "Smart Tech" team comprising Ali, Abdul Rehman and Mubashir Hassan Sargana participated in "Software Project Competition" at NASCON 2012 and won the 2nd position. They participated in the competition with their Final year project "Software Solution for Caching of Torrents" which aims to solve the real time industry problem of optimum utilization of bandwidth. While students from NUST Business School(NBS) also participated in the competition and stood third.

NASCON (National Solution Convention) aim to solve the problems of Pakistan by giving direction to the youth in aligning their passion with their academia to secure a bright future. The competition was held on April 21-22nd at FAST-NU Islamabad. In this event, there were participants from different universities from Pakistan. The projects were being adjudged by Industry representatives and senior faculty members of FAST-NU Islamabad.

## PNEC Student wins All-Pakistan Engineering Project Competition

Students from PNEC won 1st Prize including a winner's shield and a cash prize of Rs. 30,000/- in the "All Pakistan Electrical Systems Micro Controllers and Telecommunications (EMCOT) Engineering Project Competition" held on May 7-8 at COMSATS Institute of Information Technology (CIIT), Abbottabad. The final year project was completed by BE electronics students namely, Waseem Hassan, Usman Rahim and Abdullah Bin Azhar under the supervision of Dr Attaullah Memon. Around 75 hardware and software projects were presented by the student teams from various universities of Pakistan. Projects were evaluated by a panel of highly qualified faculty from different universities of Pakistan. PNEC student's team presented and demonstrated their project titled "Self Balancing Personal Transport Vehicle" which was admired by all the participants at the two-day event.





## NUST students win CSC Scholarships

**N**orth China Electric Power University (NCEPU) is a premier university in the discipline of Electrical Engineering (Power). During 2011, the NCEPU admitted five NUST scholars in MS Electrical Engineering on fully funded scholarships awarded by Chinese Scholarship Council (CSC).

This year CSC has awarded scholarships to twelve NUST scholars to undergo the Masters Program at Beijing Campus of NCEPU. It is the largest group of students from one university alone that CSC has ever awarded the scholarships. The students who have won the scholarships include 07 nominees from School of Electrical Engineering and Computer Science (Mr Sarmad Majeed Malik, Mr Khurram Shahzad, Mr Muhammad Taha Ali, Mr Furqan Rafique, Mr Muhammad Yaqoob, Mr Muhammad Javaid Iqbal, and Mr Usman Asghar), 03 nominees from Pakistan Navy Engineering College (Mr Akif Nadeem, Mr Tanveer Hussain and Mr Muhammad Armoghan Khan) and 02 nominees from College of Electrical and Mechanical Engineering (Mr Arslan Ali and Ms Maria Minhas). Rector NUST has applauded the NUST Institutions for producing the graduates of high quality who are readily accepted at international level. He urged upon the scholarship winning students to exhibit highest level of ethics and work hard at NCEPU to bring back laurels for themselves, their families, NUST and Pakistan.



## Team from NUST wins “Game Application and Exhibition Competition”

**W**ajahat Karim, Attiq ur Rehman Rao, Sheeraz Ahmed Memon, and Mubashir Hassan Sargan from SEECs participated in “Game Application and Exhibition Competition” held on 14-15th April at FAST-NU Karachi. They entered the competition with their final year project “Philanthropia - The Blind Hope”, a 3D Real time Strategy game for Android tablets (screenshots attached). There were two categories in the competition (2D & 3D category). SEECs team has won the “Game Application and Exhibition Competition” under 3D Game category.

There were participants from 25 different universities from Pakistan and some participants were from Bangladesh and



India also. While other teams were using established game engines, Philanthropia Team created their own game engine which surprised most of the judges and was pivotal in winning the competition.

## Librarian at NUST Wins 2012 Cunningham Memorial International Fellowship Award

Mr. Midrar Ullah, librarian at Army Medical College, has become the first medical librarian from Pakistan who won the "Cunningham Memorial International Fellowship Award 2012" offered by Medical Library Association (MLA), USA. Cunningham fellowship is awarded to medical librarians from countries outside the USA and Canada. During this fellowship, he got the opportunity of two week observation and supervised work in Himmelfarb Health Sciences Library, George Washington University, Washington Hospital Library, etc. He also attended the Continuing Education Course (CEC) "Cataloguing with RDA: Background and Models" at Health Sciences Library of University of Washington, Seattle, WA.

He received the award from Mr. Gerald (Jerry) Perry, President MLA during Awards Luncheon and Ceremony. He will also receive complimentary membership in MLA and the International Cooperation Section for one year.



## SEECs wins ACM Outstanding School Service Award

SEECs ACM Student Chapter has been declared as the winner of the ACM Outstanding School Service Award for the year 2011-2012 for the third time. Many reputed universities from around the world send their nominations for awards in various categories conferred by Association for Computing Machinery. ACM headquarters staff and some volunteer judges were deeply impressed by the work SEECs ACM chapter put forth, and the obvious effort made this year. The submission was chosen based on its creativity, insightfulness, content and information, and how well its objectives were fulfilled, as well as overall commitment to computing.

ACM has also presented a check of \$500 to the winners and a "best of" icon to proudly display on the chapter's web page. It is pertinent to mention here that all winning chapters will also be featured on the ACM website and in the June issue of ACM Membernet.

## Zainab Sohail to represent Pak at LIYSF-12

Zainab Sohail, a student of Atta-ur-Rahman School of Applied Biosciences, has been selected by Pakistan Science Foundation (PSF), Ministry of Science & Technology to attend LIYSF-12 (London International Youth Science Forum) and represent the country at such a huge platform. LIYSF is a two-week residential event held at Imperial College London, with lectures and demonstrations from leading scientists, visits to industrial sites, research centers, scientific institutions and organizations (including world class laboratories and universities).

LIYSF attracts over 300 leading young scientists from across the world within the age bracket of 17-21 years from more than 50 participating countries. There is an active social calendar with events designed to enable students from around the world to learn about different cultures. Hence,

it is promoting globalization based on the dynamic cultural framework of worldwide cultural integration.

There were more than 150 applicants and only 20 students were shortlisted for interview session. Final interviews were held on 18th Feb 2012, at PSF Office. Interviews were taken by 6 eminent scientists of Pakistan (Chairman PSF Mr. Manzoor Hussain Soomro was heading the committee). Good educational background was not the only criteria. Students were selected on their communication and interpersonal qualities, extra-curricular activities and intellectual capabilities. There were a lot of factors which all students were tested upon. Final selection was of four students: two boys and equal number of girls. Zainab Sohail is one of those selected students. This 15-day tour is fully funded by PSF.



### Annual Sports Meet 2012

Keeping true to its ambition of making sports an essential part of student culture at the College of E & ME, the Sports and Adventure Society (SAS) organized the Annual Sports Meet 2012 from May 11-13. A total of 14 sports, including 9 sports for males, and 5 sports for females, were to be contested over a total of three days between the College of E & ME, Bahria University and NUST-H-12. The Annual Sports Meet 2012 kicked off with competitive fixtures between H-12 and EME teams on Friday, 11th May. Making use of the ASG Sports Complex and its facilities for the first time, all the events brought to the fore the best in all the competitors. Day 2 started off the main proceedings as EME College went head to head with Bahria University in Cricket (Male), Basketball (Male) and Badminton (Female). The Basketball match especially between two teams of great caliber, was exhilarating to watch. In the end Bahria came out as deserved winners, on the back of an exceptional performance from Uzair Ahmed. However, in the female competition, Bahria dominated in Volleyball and Basketball, while EME College was able to win in badminton. Day 3 had more sporting action in store as EME College faced with Bahria University in football, tennis, squash, hockey, volleyball and badminton. While EME College took the football and badminton titles overall, Bahria University proved to be the better side in the other four sports. Bahria University were able to secure the



overall title, coming out as winners of the Annual Sports Meet 2012.

This fixture further enhances the excellent ties shared by Bahria College and the College of E & ME, and it is hoped that regular collaborations of this sort will continue to be held between the two institutions in the years to come.

### NUST organises intervarsity football and volleyball championships

All Pakistan Intersvarsity Women Football Championship, final round was held at NUST Football Ground, H-12, Islamabad from April 1-6. NUST Sports Department organized and hosted the said championship in which 7 women football teams participated from LUMS, Punjab University, Islamia, Bahawalpur, Frontier Women University, Peshawar, LCW, Karachi and Sargodha University. The Championship was played on League basis. Frontier Women University outplayed Sargodha University in the finals and won the overall women's football championship trophy.

Another sports event, All Pakistan Intersvarsity Volleyball Championship 2011-12, final round was held at Indoor hall PMAS Arid University Rawalpindi from April 25-28. NUST organized the championship once again in which almost 15 teams participated. The championship was played on knock out basis. University of Peshawar and Agriculture



University Peshawar competed against each other in the male finals and University of Peshawar emerged as the winners of the tournament.

The championships were a great success marked by tremendous performances. The organizers coordinated with each other to ensure exemplary punctuality throughout the tournament. Ms. Rubina Ansari from NUST Sports Department helped in co-coordinating activities of the mega events.

## NUST clinches two golds and a bronze at Rifle Shooting Championships

16th All Pakistan Intervarsity Rifle Shooting (M) Championship 2011-12 was held at Gun & Country Club, PSB Islamabad from June 21-27. Higher Education Commission organized the championship and grouped the matches in two categories of Men and Women. As many as 13 universities from across Pakistan participated in the competition. NUST team outshone all others in an outstanding match and grabbed two gold medals. Ms. Rubina Ansari from NUST Sports Department facilitated the students. The team comprised of 7 players, namely Aneeq Ahmed from SCME who grabbed a gold medal and Mr. Aneeq Ahmed together with Shehreyar Shafique from NICE won the team gold medal.

Intervarsity Rifle Shooting Championship for Women 2011-12 was held at Indoor hall Gun & country Club the same day. NUST organized the championship in which 6 women teams participated including those from NUST, Punjab University, GCU Lahore, COMSATS, Baluchistan and B.B.S. University, Peshawar. NUST women team performed extremely well and secured the bronze medal in 10 M Air Pistol event.



## Women's badminton tournament held

On the second day of the Inter-departmental badminton tournament of girls organized by Training Battalion, (Military College of Signals) finals were played on April 12 at the university campus. The tournament was arranged in coordination with Telecom Society. As many as 26 female cadets participated enthusiastically in the championship while faculty was also gathered to encourage the students. Mrs Col Brig Inayat Ullah Khan Niazi was invited as the Chief Guest.

Sadia Riffat from MCS was the winner of the tournament, while Javeria Iftikhar remained the runner up. Tournament was thoroughly enjoyed by everyone. The Chief Guest appreciated the efforts of Telecom Society and the female students recommended that more sports related activities should be held for female students.



## NCSC organizes 'Shining Stars'

With a view to bringing happiness and smiles to the faces of underprivileged, NUST Community Service Club organized another event titled "Shining Stars" for the little angels of SOS Village.

On the first day of the three-day event, the little kids arrived at SEECs seminar hall and were shown 'PUSS IN BOOTS' with Urdu dubbing. During the interval, the children were provided with refreshments and were entertained by songs. They cheerfully intermingled with NCSC volunteers and members making it a memorable night for them. Next day, the children visited School of Art, Design and Architecture (SADA) where the NCSC team along with the Fine Arts Club team warmly greeted them. They were

led to a classroom where charts, colours, pencils etc. fascinated them to exhibit their painting skills. On the third day, the Web Technology Lab and Database Lab were reserved for the children. They were given tasks to work on Microsoft Paint and make different designs. Once again what they produced was exceptional. The ideas they put into their paintings were very innovative and awe-inspiring. Among others, the closing ceremony was attended by Dr Abdul Ghafoor (Principal SMME), Dr Ishfaque (Principal NBS), and Mr and Mrs Irtiza Ali Shah. The certificates were distributed among the children and their mothers by the chief guest. In the end, the gathering was shown the recap recapitulating all the three-day activities.



# In a Snapshot

07

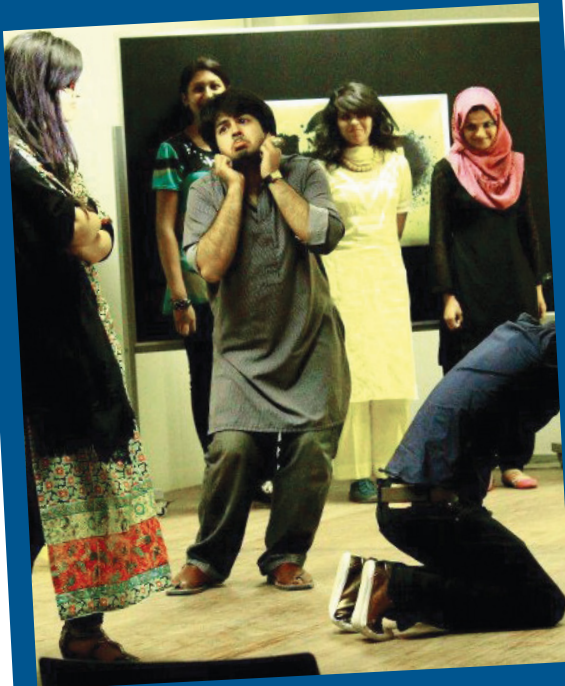
In a Snapshot



All Pakistan Women Football Championship



NUST Fine Arts Club Final Show







**SCME Open House**



**Rector Addresses  
NUST Community Service Club**



**Inauguration of Shujaat Block by The Founding  
Rector Gen (R) Syed Shujaat Hussain**

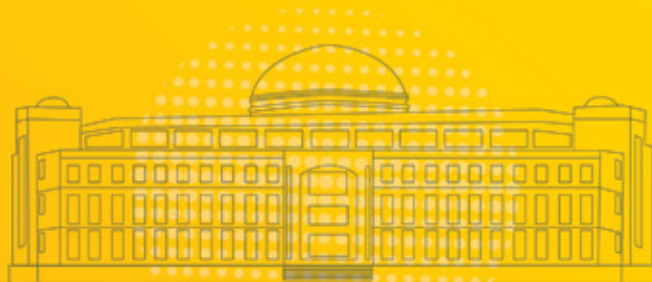


**Tambola Night MCS**





“Innovation distinguishes  
between a leader and a  
follower.” Steve Jobs



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