

MONTHLY  
**NUSTNEWS**

Volume IV / Issue III



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Egyptian President  
receives PhD Degree

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Italian Ambassador  
visits NUST

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“When nature resumes her loveliness, the human soul is apt to revive also.” Harriet Ann Jacobs



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**NUSTNEWS** is a monthly publication, produced by Student Affairs Directorate, covering various events across the entire University. It will be appreciated if the focal persons send reports right after the events so as to give them timely coverage.

## 01 Highlights

# NUST confers honorary PhD Degree upon Morsy



In recognition of his eminence in the field of science and technology, inspiring leadership, political acumen and intellectual excellence, NUST conferred Honorary Doctor of Philosophy degree upon His Excellency Mohamed Morsy, President Arab Republic of Egypt, here at the University's main campus on March 18. Chancellor NUST Prime Minister of Pakistan, Raja Parvez Ashraf, awarded the degree to the visiting dignitary. Besides NUST faculty and students, a large number of notables including ambassadors and distinguished local and foreign guests were present at the occasion.

Heading a high-powered delegation, Mohamed Morsy, the first democratically elected civilian president of Egypt, was on a one-day state visit to Pakistan on the invitation of his Pakistani counterpart President Asif Ali Zardari.

His Excellency Dr Mohamed Morsy is a distinguished scientist, academician and statesman who has made a distinctive mark on the national, regional and international levels. As president of the democratic Egypt, he has met the daunting challenges with sagacity and vision. The award of honorary PhD degree to the visiting President was a gesture to acknowledge his remarkable achievements and significant contribution to the promotion of peace and harmony in the world and strengthening of bilateral relations with the Muslim countries, especially Pakistan.

Speaking at the occasion, the Prime Minister said that Egypt's support and solidarity with the people and government of Pa-

kistan had always been warm and forthcoming. He added that the two countries had remained intimate to each other both in times of peace and conflict. The Premier said that the two countries had been actively involved in trade in the past and look forward to the future prospects. He said, "We positively anticipate the profiting investment between the two countries and therefore cordially invite Egyptian enterprise for investment in the Pakistani market."

As regards the educational front, the PM maintained, "we have a good tradition of exchanging our talented students. Al-Azhar University has played a pivotal role in this regard. We also look forward to opening up new vistas of cooperation in various fields including agriculture, health and higher education." He was optimistic that the maiden visit by the Egyptian President would serve as a watershed in the traditional and friendly relations between the two large Muslim countries.

In his degree acceptance speech, President Morsy thanked the government and the people of Pakistan for their continued support to the Arab Republic of Egypt. He specifically expressed his deep gratitude to NUST authorities for having bestowed upon him the honorary PhD degree. Earlier, Rector NUST Engr Muhammad Asghar welcomed the esteemed guests to the august ceremony. He apprised the gathering of the milestone achievements the University had made over a short period of time since its inception.

# Rector acknowledges distinctive Nustians in co-curricular activities

In order to acknowledge the talented Nustians whose meritorious presence at various co-curricular events brought laurels to NUST, a prize distribution ceremony was held on 28th March at the NUST SCEE auditorium. Fervent and zealous Nustians proved their mettle at various national and international platforms and brought heaps of success stories with them.

Prizes were distributed among distinctive performers in Student Design Competition, Global Multicore Challenge, 32nd All Pakistan Allama Muhammad Iqbal Declamation Contest, All Pakistan Declamation

Contest PAF, Risalpur, All Pakistan Universities Radio Production Award, IBA Enigma Drama Festival, All Pakistan Intervarsity Rifle Shooting Championship, Intervarsity Hockey Competition, 6th Vacuum and Surface Science Conference of Asia and Australia,



Lahore School Debate Competition, GIS Day Celebration, CFA Competition, Pakistan Army Vs England Army Cricket Series & 8-Nations Services Team Championship, NIMUN-2013, FIRST LEGO® League, IAESTE General Conference, IEEE NEO, LUMS Psifi, Thermocon, World Violence Against Women Poster Competition, LUMS Olympiad, All Pakistan Optics Olympiad, SURGICON, Kurula Varkey Design Forum and LUMS Synergies Case Study Competition.

Later speaking at the occasion, Rector NUST appreciated the commendable performance of the distinctive performers at national and international platforms. He asserted on the exigency of broadening their vision further. He said that various traits were required to constitute an exemplary character and building leadership was one of them.

## Interactive Workshop on CPD Framework for Professional Development of Engineers

NUST in collaboration with Pakistan Engineering Council organized an interactive workshop on CPD Framework for professional development of engineers on March 15. Participants from PNEC, MCE and CAE had also been connected through video conferencing.

Dr Qaiser H. Malik, Principal NILE in his opening remarks comprehensively elaborated NUST- PEB formation. He also made mention of its achievements and also the challenges it is confronted with. Suggesting the way forward, Dr Malik said that a database of all registered and professional engineers be maintained at H-12 Campus and their career path may further be planned and executed in collaboration with PDC, HR and Academic Dtes. He also shared a pleasing information that Pakistan Engineering Council renewed NUST PEB license for the conduct and award of CPD points for registered and professional engineers for the next three years.

Addressing the participants, Dr Ashfaq Ahmed Sheikh, Additional Registrar PEC, explicated the objectives of Professional Development of an engineer. Elucidating CPD (Continuing Professional Development), he said that it was an intentional updating of professional knowledge and the improvement of professional competence throughout a person's working life. He also briefly described the policy for CPD, activities, byelaws, role of PEBs (Professional Engineering Bodies) and EPE (Engineering Practice Examination). Dr Sheikh further mentioned the privileges of a Professional Engineer over Registered Engineer and also elaborated

the quantification of CPD Activities. He also answered the queries of the participants.

Pro Rector (P&R) Engr Muhammad Shahid in his closing remarks said that the educational trends had thoroughly been revolutionized as the students' interest had risen manifold in cross and multi-disciplinary studies. He further said that coming out of the stereotypical frame of mind and giving proper space to innovative trends at educational fronts were desperately required. The seminar culminated with a certificate distribution ceremony among the engineers.



## NUST *Bazm-e-Pakistan* holds Pakistan Day Seminar

The NIT Seminar Hall was flooded with students on March 27, 2013. All of whom had been eagerly waiting to be there to listen to the speaker who speaks his heart out on the love of motherland and whose words are pure gold.

"I adore the youth because they are candid and unfeigned" said the speaker of the day; Orya Maqbool Jan, the voice that has led many. "*Uth Jawana-You are your country*" was the title and the tagline of the seminar organized by NUST *Bazm-e-Pakistan* (NBPK). As per tradition and a religious obligation the event commenced with the recitation of the Holy Quran and to revive the spirit of *Pakistaniat* among the audience. Pakistan's national anthem was played as the students and faculty stood with their heads high with pride and hearts filled with respect for the country, exhibiting the beauty of unity. 'The true face of Pakistan and the Pakistan every Pakistani dreams of' was intended to be depicted through an inspirational video that was presented by the media team following the national anthem.

The podium was then handed over to Mr. Orya who announced that he would not speak in the language that he was trained in and that he would like to speak in a language that 'belongs to him and in which he dreams.' He justified this by giving an example of the nations that made progress by sticking to their own

traditions and customs rather than imitating those of others. He also explained how no nation which chose to mock rather than being creators never progressed. While talking regarding the love for his country, he had vigour and verve in his voice. He explained that even though there is no concept of nationalism in Islam but Pakistanis should love their country because its very creation is on the basis of Islam and in the name of Allah (SWT). While talking about the change and revolution which need to make their way through this country, he narrated a maxim that "Will of people speaks in Parliament" is a total deception. According to him, public is the real power and that it is through public uprising that we can change the course of events as it has been clearly written on the pages of history. The speech preceded an interesting question and answer session and an inquisitive audience trying to explore Mr. Orya as much as possible in the limited time.

At the end of the session, Pro-Rector NUST, Dr. Asif Raza delivered his message to the audience. He said that there is a need to transform into individuals of honesty, integrity and character in order to compete with rest of the world while focusing on the things Mr. Orya pointed out.



### Spring tree plantation ceremony

The ceremony was held on March 8 at the surrounding area of Habib Bank Ltd. Honorable Pro-Rector (P&R), Engr. Muhammad Shahid inaugurated the ceremony by planting 'Jacaranda' tree. On the occasion as many as 164 saplings of different species were planted. All officers from Adm Dte and over 100 students of NUST Environmental Club participated in the ceremony.

From the start of spring season, NUST Horticulture team embarked on the plantation drive around the campus. A total of 148 "Amstel King" and "Bestofia" plants were planted along the Bolan road. 61 "Amstel King" and 61 "Sukhchain" plants were planted along the Khyber road. A total of 271 plants of various kinds including Amaltas, Sapium, Chenar, Shirin, Sukhchan, Fiddlewood and Drake were planted in the surroundings of Attar Hostels. Apart from that, a total of 52 'Amaltas' trees were planted along TIC road, 168 plants around bank area, 24 'Bougainvillea' in Ghazali

Hostels, 40 'Bougan Bails' and 20 'Hibiscus' in Razi Hostels, 35 'Shirin' plants around Concordia 2 and 20 plants around Isra Apartments. Around 1051 plants that were planted by the Horticulture branch in the campus. Consistent efforts of the horticulture branch were much appreciated by the students and faculty alike.

Addressing the gathering 'Director Administration' gave an overview of the Horticulture efforts being carried out at NUST. He also briefed the audience about plan for Spring Plantation 2013.



## NEC celebrates *Jashn-e-Baharan* and Earth Hour



*Mehndi* celebrated. It was done in an incredibly upbeat and real manner with *henna* and *gajras*, and a *dhol wala* band prompting people to a rapturous *bhangra*. Song dedication stall played songs throughout the day. Different gaming stalls were also a



NUST Environment Club (NEC) became the proud host of the festival '*Jashn-e-Baharan*.' The aim of which was to raise funds for the 'Student Endowment Fund' started by NUST. Wednesday, March 27 was the day when NBS ground came to life with the colors and spirits of spring season in full swing. With spring comes renewal, rejoice, rebirth and refreshment. What a better way to celebrate it than organizing a wonderful festival!

The event commenced at 1:30 pm and soon people started swarming up at the venue. With the inauguration of the event by CFO, Mr. Irfan Ahmed Akhtar, accompanied by Director Budget and Accounts NUST, Mr. Nasir Amin Khan, the festivities were formally opened for celebrations. Since the theme of the whole event was to organize a fund-raiser for endowment fund, the participation of NEC members and students from different departments was heartening.

There were numerous stalls set up by students from different departments. Desi food items were the pick of the menu. From 'gol gappay' to 'faluda' and from 'pan' to 'gola ganda' and not to mention 'lassi', everything was just tempting for the taste buds. Other stalls included live sketching, jewellery, and boutiques. One very popular stall was that of "Rasm-e-Hina" in which people set up their friends to have their



part of this event, ranging from FIFA to Ludo to chicken racing. The prime attraction at the festival was undoubtedly the pirate ship, with a never ending line and a chorus of cheerful roars from the people on it. It had people going crazy with the thrill of it. It was certainly a massive hit amongst the crowd.

People came in from every school in NUST, departments in H-12 and colleges outside as well. Students from NUST campuses outside H-12, Military College of Signals (MCS) and College of Electrical and Mechanical Engineering (EME), also joined NEC for the festival. Faculty and their families also came to enjoy the festival. The kids were particularly attracted to the tall clown who playfully roamed about. Most of the girls were dressed in

colorful bright traditional dresses picturing the spring festival, and a few went to the extent of wearing lovely *parandas*, while the boys were dressed in both traditional and western dresses.

*Jashn-e-Baharan* was planned to come to a close with Earth Hour from 2000 to 2100. It was marked by releasing lanterns in the sky. The sight of glowing and sparkling airborne lanterns was breathtaking. The cheers of the crowd as the lanterns rose brought a renewing energy to every spectator present at the Scholar's Avenue.

## BMAS Programme at NIPCONS

The second batch of 7th Semester of Bachelors in Military Art and Science (BMAS) has commenced at 6 hub HRDCs. Starting from March 11 the semester will end on May 4. A total of 199 students (Young Officers) have joined this semester which is being conducted under the MAS Department of NUST Institute of Peace and Conflict Studies (NIPCONS). With the successful completion of the first batch, the system of studies and the online examination system based on the LMS have been found up to the desired level.

A major difference in the present semester has been the transmission through video conferencing of opening lectures of different courses and talks on specific subjects by the sponsors / guest speakers to all HRDCs simultaneously. The opening ad-

dress was delivered by Principal NIPCONS, Ali Baz who appreciated the efforts of faculty and administration alike. This was followed by lectures on 'Pakistan Army; the Challenges and the Way Forward' and 'Evolution of Technology and Warfare,' by the Principal. Later, question and answer session ensued.



## PNEC team shines in SEM, Malaysia

Team from Pakistan Navy Engineering College (PNEC), NUST has been regularly participating in Shell ECO Marathon (SEM) since 2009. As the Asia wing of the competition began in 2010, more teams from various engineering universities in Pakistan started entering each year, joining others from all over the continent at the Sepang International Circuit in Kuala Lumpur, Malaysia. SEM challenges students to design, build and test future fit vehicles that meet the highest standards of safety and innovation.

During the last year's competition, the team participated in two categories and managed to secure 10th position in one of the categories in the entire Asia. TEAM-NUST-PNEC was the only Pakistani team which was nominated for all the off-track awards besides securing 2nd position in the Communications Award competition. Furthermore, Team NUST also has the honor to



be the only team selected from Pakistan in the official flag-off ceremony at SEM Asia 2012.

To commemorate the success of TEAM-NUST-PNEC, Shell Pakistan Limited took an exclusive photo session of the team and published it in daily TRIBUNE newspaper of 24th March 2013 and also wrote a letter of appreciation for the team. This recognition is a great source of encouragement not only for the team but also for NUST.

## Rendezvous with Javed Chaudhry at NUST



barriers in the way of success and to pursue their interests that give them joy and satisfaction.

Javed Chaudhry is a well known columnist for the Daily Express, most widely recognized for his influential column, 'Zero Point' and his current affairs show *Kal Tak* which airs on Express News. He is the recipient of numerous awards, including the All Pakistan Newspaper Society's Best Columnist Award (1997 & 1998), and the Excellency Award for Outstanding Work in National Journalism (1998).

The event concluded with an address by the chief guest, Director Academics, NUST, Dr. Safdar Ali Shah, where he lauded Mr. Javed saying 'he has transformed journalism into literature'. He presented shields to Mr. Javed Chaudhry, Dr. Maqsood and event head, Mamoon Asif.

NUST Literary Circle (NLC) organised a 'Rendezvous with Javed Chaudhry' on March 1 at SCEE auditorium. The event invited the veteran journalist to interact with the student body at NUST. In his address, Mr. Chaudhry talked about the creation and evolution of man. He said that man remains in search of comfort, happiness and peace, and these are the elements that complete him. What followed was an electrifying Q&A session inviting a display of enthusiasm from the audience and equally fervent response from Mr. Chaudhry. Mr. Chaudhry urged the students to eliminate



*“Eliminate barriers in the way of success and pursue your interests that give you joy and satisfaction.”*

## NUST Marathon

NUST Adventure Club endeavors to bring thrilling and adventurous events to its members, which not only give a revitalizing experience but also leave imprints on their participants' memories. One such event organized by them was Annual NUST Marathon which took place on March 27 to test the athletic abilities of the Nustians.

The marathon kicked off at 2:30 pm. A route of 3.86 km was to be crossed by the male athletes while the distance for female athletes was 2.50 km. As many as 300 people participated in the race. The participants showed their stamina and willingness to traverse the arduous distances around NUST main campus.

A prize distribution ceremony was arranged to acknowledge the participants' efforts and present prizes to the winners and runners up.

Javed Azam, Mohammad Bilal and Imran Mazhar got awards for the Male Student category. While Mashal Saif, Rabia Parveen and Afsana stood out in the Female student category. Male Faculty and Staff category winners were Noman Aslam, Jahanbaz Ali and Touqeer Ahmad. The children category was won by Ahmad Rahis, Hassam Ullah and Mohammad Ismail.

The chief guest, Principal SCEE, Dr. Nasrullah Khan distributed prizes among winning athletes. Dean SCEE, Dr. S. M. Jamil and Associate Dean NICE, Dr. Liaquat Ali also graced the occasion with their presence.



## Accreditation Visit of PEC

An accreditation visit of PEC was arranged by Dr. Shahid Ikramullah Butt Head of Mechanical Engineering, SMME. A three member team of PEC consisting of Dr. Tufail, Dean Mechanical Engineering, NED Karachi, Dr. Tausif, Head of Mechanical Engineering KSK campus UET and Mr. Zulqarnain Shah, representative PEC Peshawar visited SMME on March 25. The visitors interacted with the students and the team highly commended the HoD Mechanical for his endeavours in bringing the school up to the expectations of PEC for accreditation.

Pakistan Engineering Council is a statutory body to regulate the engineering profession in the country. Its main statutory functions include registration of engineers, consulting engineers, constructors and accreditation of engineering programmes run by universities, ensuring and managing of continuing professional development, assisting the Federal Government as a think tank, establishing standards for engineering products and services besides safeguarding the interest of its members.



## Mental Health Awareness lecture by C<sup>3</sup>A



A mental health awareness lecture was organized by Centre for Counselling and Career Advisory (C<sup>3</sup>A) at PNEC on the topic "Teacher's Role in Youth Suicide Prevention." A team of psychologists interacted with the faculty at PNEC in order to discuss the teacher's role in youth suicide prevention. The lecture focused on the important role of teachers in youth suicide prevention. It aimed to resolve the issue by identifying the factors that can lead to suicidal attempts and discussing crucial preventive measures. Various handling and coping strategies were shared to help those who might be at high risk. The interactive session was well received by the audience comprising teaching faculty from various disciplines.

Furthermore during the visit, as many as 30 students were counselled by C<sup>3</sup>A professionals. The psychologists at C<sup>3</sup>A helped their clients resolve issues and concerns, and discover better ways to handle life's challenges. The team also discussed and shared useful tips with the administration of PNEC to handle some pertinent issues related to interaction with students.

## NCSC team visits Special Education Centre

A team of NUST Community Service Club visited Sir Syed School, Special Education Centre for Hearing Impaired Children on March 17. The school is located in Rawalpindi, and is the learning place for hundreds of students, both male and females, providing quality education with the aim to make its students self reliant and good citizens. The team of NCSC brought gift geometry boxes and stationary items for more than 200 students. Students in the School are taught from class nursery to B.A, and unlike the conventional institutions, provides parent sessions to bridge the gap between the children and their parents and help them understand each other.

The team members took a round of the school and were given a demonstration on how the students are trained in speech therapy. The experience of meeting with the deaf community, a first time for most volunteers, was an eye-opening experience and brought up mixed emotions. Being unable to communicate with the deaf community without adequate knowledge of sign language made the volunteers feel helpless. With the help of an interpreter, they were able to discuss and share the issues faced by the persons with disabilities and understand their requirements. The school is also planning to conduct mobile and hardware repairing classes in order to fulfill its aim to make its students self-reliant. NCSC plans to work with the school to pro-



vide student workforce both for technical assistance and other volunteer activities in future.

## PDC focuses on innovative techniques for cost reduction and quality

Professional Development Center (PDC), NILE, organized a three-day workshop on 'Innovative Techniques to Reduce Cost and Improve Productivity and Quality' from March 25 to 27. The workshop was designed for both professionals from manufacturing and service sector and saw attendance from quality and productivity experts, technical experts, consultants, project experts as well as faculty. A major incentive to attend the workshop was that a PEC Continuing Professional Development (CPD) Point was awarded to the participating engineers.

The resource person on the occasion was Mr. Imtiaz Ahmed, a Master Trainer and World Bank Certified Trainer, Assessor and Course Designer, with vast experience from his work with multi-nationals in North America.

The sessions were aimed at facing global competition in order to extract maximum profit from products without compromising quality by using innovative techniques. Mr. Imtiaz Ahmed highlighted the importance of streamlining manufacturing processes using lean management, value engineering other quality and productivity management tools. The participants of the workshop began with understanding different types of visible and invisible costs incurred in the production of goods or services. A major part was removal of misconceptions about productivity. Stress was laid on "Design for Manufacturing and Assembly (DFMA)" framework, concept of "Strategic Innovation Leadership" and "Business Excellence Models" of different countries. These concepts were elaborated with the aid of case studies and calculations activities.



The chief guest for the closing ceremony was General Manager of Science and Technology Venture, Mr. Umer Farooq, who thanked the facilitator and organizers for producing a highly beneficial workshop. He introduced the audience to his organization in relevance to research and commercialization of technologies and wished everyone luck in applying the knowledge acquired in the future. The resource person Mr. Imtiaz urged each and every participant to give their feedback and suggestions so that their response could be utilized constructively. As a result many participants suggested some additions for their own specific fields but consensus was that the activity was useful and applicable in the modern times.

The workshop was sealed with a certificate distribution ceremony by the chief guest.

## Faculty orientation programme at PDC

Professional Development Center arranged a three-day orientation training for the newly inducted NUST Faculty from 12-14 March, 2013. The opening session was chaired by Pro-Rector P&R, Engr. Muhammad Shahid, who gave the audience an overview of NUST in the Seminar Hall of Main Office. The resource persons for the orientation were Pro-Rector P&R, Pro-Rector Academics and some other senior officials.

Dr. Asif Raza briefed the participants about the academic activities and policies of NUST. Engr. Muhammad Azhar Pervez, Dir. HR explained the policies related to NUST recruitment and selection, leave, scholarships and opportunities for NUST faculty. Engr. Salman Absar, Dir. I&C highlighted importance of research, innovation and commercialization in development. Dir. Administration, Mr. Arif Mahmud, Principal NILE, Dr. Qaiser Hameed, Director Academ-



ics, Dr. Safdar Ali Shah and Dr. Farid A. Khawaja from CAC also introduced the newly inducted members with the objectives, policies and practices of their concerned departments.

Faculty Orientations are a crucial part to incorporate the freshly recruited faculty into the circle of NUST, its vision and policies.

## Experts gather to discuss zero energy homes

NUST Science Society conducted another session of its 'Tech-Talk' series on March 6 at SCME. The session was attended by almost a hundred students. The focus of the session was the development of zero energy homes in the country.

The guest speaker of the event was Mr. Saad Asif who is the founder and CEO of Nexton Groups. He began with renewable energy solutions, consequently completing the biggest solar power project in the private sector in Gilgit, Baltistan. Mr. Saad Asif is the youngest Pakistani candidate ever to be selected in CERN, the globally recognized European Organization for Nuclear Research. The speaker emphasized that a developing country should develop passive systems of energy where the focus is insulation rather than the generation of energy. He identified that Pakistan has the potential of exploiting solar power to the fullest and developing homes with zero carbon emission and zero net energy consumption. He said that bio-metric architecture should be used while building homes since domestic power has the highest energy demand in Pakistan.

The presentation was followed by a question and answer session. Among these was the major issue of feasibility, particularly for an average person to whom the initial cost of the solar en-



ergy resources is higher than the non-renewable alternatives. Mr. Asif then highlighted the need for increasing awareness and identified misconceptions that discourage the installation of renewable power projects. This event proved to be quite informative and helpful in creating awareness and propelling the youth to seriously consider devising solutions for an energy efficient and greener Pakistan.

## Prof. Edy Tri Baskoro visits CAMP

Prof. Edy Tri Boskoro visited the Centre for Advanced Mathematics and Physics (CAMP) on 10th-11th March 2013. Prof. Boskoro chairs Combinatorial Mathematics Group at Institute Teknologi Bandung (ITB) in Bandung, Indonesia. He delivered a special seminar at CAMP on "Ramsey Graph Theory". The faculty at CAMP intends to start research collaboration with Prof. Boskoro in the field of Combinatorial Mathematics, which will give a new direction to research at CAMP.





## NDM celebrates Annual Sports Day

NUST Day Care & Montessori (NDM) at H-12 Campus, Islamabad organized its first Annual Sports Day on March 21, 2013. The event featured exciting races including running and cycle races between the kids of NDM. The children also displayed different fun filled plays and it was a pleasant sight to see the juvenile dressed in colourful clothes and some wearing traditional attires. Competitions such as musical chair and Tug of War added colours to the beautifully organized venue by Administration Directorate. The event was attended and appreciated by the chief guest, Rector NUST along with Pro-Rector P&R and Pro-Rector Academics.



## Students' projects displayed at Kurula Varkey Design Forum 2013

School of Art, Design and Architecture (SADA) always encourages and provides its students with a platform to showcase their talent and bring laurels to themselves, their department and most significantly their university. The intention of the KVDF is to provide a platform to discuss architectural education in India. The projects act as catalysts in setting up specific issues and concerns that merit debate.

Two of the third year students, Faria Raza and Alveena Rahim, sent their work to the most prestigious architecture school in India, CEPT, run by Doshi in which top students' work is selected. It is very competitive and moreover is an honour that NUST students were selected, establishing the quality of architecture studies being taught in SADA. Student projects are displayed to illustrate various teaching and design methods employed across a section of architecture schools. 45 projects from schools of architecture all over the subcontinent were received and displayed, out of which only 24 were selected to be discussed on the forum.

## 02 Visits

### Nepalese Delegation visits NUST

A 13-member delegation of Nepalese students led by faculty member visited NUST on March 28. Briefing was given to the delegation about establishment, institutions, programs, research initiatives and future plans of NUST followed by a detailed Q&A session. Later, the delegates were given a guided tour of the University. The delegates visited NUST School of Electrical Engineering & Computer Science (SEECS) and NUST Institute of Environmental Sciences & Engineering (IESE), where they were conducted to various state-of-the-art labs. Nepalese delegation appreciated NUST's Infrastructure and facilities provided for its faculty and students to ensure quality teaching, learning and research. The delegates showed keen interest in establishing formal relationships between the universities of both the countries to enhance collaboration in the areas of joint research, fellowships and exchange of faculty and students.



### Bahria University delegation

A six-member delegation of Bahria University led by Vice Admiral (R) Khalid Amin HI (M), Director General, Bahria University Karachi Campus (BUKC) visited NUST on March 11, 2013. The delegation met with Pro-Rector (P&R), Engr Muhammad Shahid and discussed the matters of mutual interest. Later, the delegation visited NUST Centre of Innovation and Commercialization (CIE) where they were briefed about NUST ORIC activities, projects, achievements and its future plans.

The delegates also visited School of Electrical Engineering and Computer Science (SEECS) and Research Centre for Modeling and Simulation (RCMS) where they were conducted to various sections and state-of-the-art labs. The visiting delegates appreciated NUST's Infrastructure and facilities provided for its faculty and students and expressed keen interest in increasing collaboration between NUST and Bahria University to share each other's initiatives, expertise and working procedures.



## Delegation from Turkish Republic of Northern Cyprus

A three-member delegation from Turkish Republic of Northern Cyprus visited NUST on March 21. The delegation included H.E. Mr. Mustafa Evran, Ambassador Turkish Republic of Northern Cyprus, Prof. Dr. Turgut Tumer, President METU, Northern Cyprus Campus, Turkey and Mr. Egemen Ozalp, Third Secretary, Turkish Embassy in Pakistan. Upon arrival, the delegation met with Rector NUST Engineer Muhammad Asghar and discussed the matters of mutual interest. Later, the delegation was briefed about establishment, institutions, programs, research initiatives and future plans of NUST followed by a discussion session. The delegates also visited NUST School of Mechanical & Manu-

facturing Engineering (SMME) where they were conducted to various state-of-the-art labs. The visiting delegates appreciated NUST's Infrastructure and facilities provided for its faculty and students to ensure quality teaching, learning and research. H.E. Mr. Mustafa Evran expressed his desire to enhance collaboration between NUST and top Universities of Turkey, while Mr. Turgut Tumer (President METU NCC) showed keen interest in signing agreement to establish formal relationship between NUST and METU in the areas of fellowships and exchange of faculty and students.



## Italian Ambassador at NUST

His Excellency Adriano Chiodi Cianfarani, the Ambassador of Italy, visited NUST on March 19. He is also the founder and patron-in-chief of the Italian Development Committee (IDC), which is a trade development association of professionals from different industries, committed to the expansion of trade, commerce, industries, ventures and investments between Italy and Pakistan. President, IDC Mr. Irfan H.A. Vazeer and Secretary General IDC, Mr. Zuhair Vazir also accompanied the Ambassador of Italy. The delegation was hosted by Rector NUST Engr. M. Asghar. The purpose of the session was to tap into probable areas for collaboration between Italy and Pakistan. The session started with presentation of the NUST by Director CAC, where she explained how CAC, GTTN and NSTP form part of the Knowledge Ecosystem. Rector NUST and Principal CAMP mentioned their established collaborations with Italian Universities – Universitadel Salento, Lecce, Italy and Abdus Salam International Center for Theoretical Physics, Trieste, Italy with NUST-CAMP, and expressed hope for further academic collaboration. Rector NUST and the team envisioned IDC as a conduit for developing collaboration between Pakistan and Italy. NSTP, with its complete ecosystem support was highlighted as the perfect arena

for Italian companies and entrepreneurs to start operations in Pakistan. The prospect of planning and executing projects, through the relevant CAC Sector Committees, Infrastructure, Telecommunication, Information Technology, and Automotive, was also discussed. GTTN's plans for bilateral trade, Eurasian economic linkages and regional peace, higher education collaboration, cultural cooperation, science-based urban development, convergence of civilizations research and outreach were also underlined. The session was followed by the visit to CIE building where the delegation was introduced to various start-up companies working at Technology Incubation Centre.



## NAA Team visits MCE

NUST Alumni Association (NAA) has made significant efforts since its inception to integrate Alumni Association of NUST Constituent Schools & Colleges under its umbrella. In order to make Military College of Engineering, Risalpur a part of NAA, a four member NAA team headed by Senior Vice President NAA, visited Military College of Engineering, Risalpur on Thursday, March 7th 2013. The members of the team included Adnan Shahid-Senior Vice President NUST Alumni Association, Col Nasrul Haq-HOD Survey NICE /Senior MCE Alumni, Muhammad Ammar-Lecturer NICE / MCE Alumni and Um-e-Rubab Asif- Asst Manager Alumni Development.

The purpose of the visit was to co-ordinate and share alumni efforts with MCE and also to integrate them with NAA. The team also interacted with graduating students, officers and faculty to introduce NUST Alumni Association and motivated them to be part of Alumni activities by NUST. The visit was very productive and effective as MCE Alumni Association will be formally launched in the upcoming weeks and will help in bridging the gap between MCE & NUST and to ensure that MCE Alumni with their rich legacy and traditions will be an important arm of NUST Alumni Association.



## NUST Alumni Association at World Mobile Congress, Barcelona- Spain



The GSMA Mobile World Congress is a combination of the world's largest exhibition for the mobile industry and a conference featuring prominent executives representing mobile operators, device manufacturers, technology providers, vendors and content owners from across the world. Every year Barcelona becomes the focus point for the world's biggest Smartphone manufacturers as they battle it out to win the wallets of ordinary punters with a wave of new Smartphones and tablets. This year the mobile World Congress was held at Barcelona from February 25 to 28 and NUST Alumni Association participated in the event. President NUST Alumni Association, Ammar Ahmad Khan (Managing Director Middle East, Nexus Telecom) met other NUST Alumni which includes Muhammad Ali Khan, GM Commercial PTCL, Basit Malik: Director Advisory, PWC Washington, USA, Moiz Baig, Co Founder Counsil Thingz, Bayut and Amin Khan, a PhD Student in Barcelona.

The meeting marked an important stepping stone where NUST Alumni across the globe have now a platform in the shape of NUST Alumni Association to network with NUST family at an international level.

## BMAS students orientation visit

A 70-members NIPCONS delegation including members of faculty and students led by Brig (R) Muhammad Sardar visited NUST on 26th March, 2013. Briefing was given to the delegation about establishment, institutions, programs, research initiatives and future plans of NUST followed by Q & A session. Later, the delegates were given a guided tour of the University. The delegates also visited NUST Exam centre where they were briefed about the state-of-the-art facilities and testing procedure in place. The visiting delegates appreciated NUST's Infrastructure and facilities provided for its faculty and students.



## 03 Updates from Schools

# CAE Convocation

## 51 pass out with promising future



An impressive Convocation Ceremony of 74th Engineering Course of College of Aeronautical Engineering was held at PAF Academy, Risalpur on March 29. Engr. Muhammad Asghar, Rector, NUST was the chief guest on the occasion. On his arrival at the Academy, Rector NUST was received by Air Vice Marshal Rashid Kamal, SI (M), Air Officer Commanding, PAF Academy Risalpur. Apart from parents and guests for Air Headquarters, the ceremony was also attended by Air Vice Marshall Sohail Aman, SI(M), Deputy Chief of Air Staff (Training).

The ceremony started with recitation from the Holy Quran, which was followed by welcome address by Commandant College of Aeronautical Engineering. In his welcome address, Commandant CAE deliberated upon the efforts made by CAE towards providing quality education, training and grooming of its students and the distinctions it has achieved recently.

The chief guest conferred degrees in Aerospace and Avionics Engineering disciplines upon 51 students and also awarded Merit Certificates and Gold Medals to the distinction holders. Merit Certificate for best Aerospace Vehicle Design was awarded to Pilot Officer Asad Iqbal, While Merit Certificate for Best Avionics System Design was awarded to Pilot Officer Rohail Tahir. Rector's Gold Medal for Best Project in Aerospace Engineering was awarded to Pilot Officer Ehraz Ali, Rector's Gold Medal for Best Project in Avionics Engineering was awarded to Pilot Officer Taimoor Ahmed, while President's Gold Medal for standing first in Aerospace and Avionics Engineering Disciplines were awarded to Pilot Officer Zuhaib Hassan and Pilot Officer Rizwana Kausar respectively.

While addressing the students of 74th Engineering Course, the Chief Guest said, "Pakistan's needs for research and development in the field of Aeronautical Engineering are multiplying at a rapid pace. Standing at the threshold of cosmic technological changes, you as Aeronautical Engineers are expected to foster greater progress in multifarious fields not only towards

strengthening our national security but also stimulating economic development and making life easier for our compatriots. It is, therefore, imperative to wisely plan the future goals in accordance with our national needs which will require substantial enhancement of knowledge, towards discovering new avenues of learning and undertaking new enterprises. You must be able to work in myriad disciplines, and come up with conclusive solutions to the problems being faced by the country.



## Flood damage reduction and management strategies discussed

Pakistan faced one of the worst floods in its history during July-August 2010, which caused wide spread devastation. The floods caused by unprecedented rains washed away a large number of public and private infrastructure and inundated millions of hectares of land, thousands of human settlements, large network of communication infrastructure, and irrigation and drainage system in the center and south, resulting in displacements of about 20 million people across the country. However, the disaster could have been mitigated by proper planning and preparation on part of the concerned authorities or it could have washed out the whole barrage system of Pakistan from Jinnah Barrage to Kotri Barrage if not for one reservoir.

Keeping in mind the importance of such structures, a lecture on "2010 Floods" was arranged on March 21 at NIT Auditorium for the 2011 Civil Engineering Batch of NUST Institute of Civil Engineering (NICE), SCEE. The guest speaker for the occasion was Raza M. Farrukh, Senior Project Officer, Pakistan Resident Mission, Asian Development Bank. The speaker started his presentation with illustration of the Indus basin system and the explanation of flood forecasting system which was established in 2006 under the Met Department of Pakistan which comprises 3 radars and 22 telemetry stations.

Then the speaker moved on to explain the storage capacities,



peak discharges and the effect of this one in 2800 years rainfall on the barrages with the aid of a timeline. Visual and graphical explanations acquainted the audience with the circumstances under which different hydrological structures sustained torrential rainfalls. It was noteworthy that Sukkur Barrage upheld inflow greater than its capacity for 15 days while Kotri Barrage for eight days. Unfortunately, 59 million acre feet (MAF) were lost to the Arabian Sea in one flood wave while the total capacity of Pakistan's hydrological system is 12 MAF. Consequently, the need for more storage dams and flood carrying canals was highlighted. At the end, Associate Dean NICE, Brig. Dr. Liaqat Ali thanked the guest speaker for his invaluable time.

## NBS holds Fulbright Scholarship Seminar

Looking at the interest of many students in various scholarships and particularly in Fulbright Scholarship, an information seminar was arranged on March 5. Representatives from United States Education Foundation in Pakistan (USEFP) were invited to conduct the event.

The seminar was conducted in two sessions: the first one was general information about the Fulbright Scholarship Program. And the second one was about writing effective personal statements. Personal Statements are an integral component of any Higher Education application, whether it is through scholarship or not. The deadline for receipt of Fulbright Application is approaching soon in May 2013 and it was the appropriate time for students to get exposure to such programs.

A large number of student-body attended the three-hour probing session and kept the speakers engaged with their intriguing and interesting questions. In addition to students, NUST Alumni were also invited to attend the session. Both, the audience and the speakers thoroughly enjoyed the process of sharing information and offered positive feedback in the end. Mr. Umar Ahmed, Assistant Professor NBS moderated the seminar.

The ceremony concluded by a vote of thanks from Principal and Dean NBS; Dr. Ashfaq H. Khan, who highlighted the importance of higher education and specifically the role of USEFP in promoting and sharing various scholarship programs among Pakistani youth.



## Curriculum Development Workshop at SADA

School of Art, Design and Architecture (SADA) organised second workshop on curriculum development for faculty of SADA from March 22 to 30, 2013. The workshop was conducted by Professor Ar. Jonges from Netherlands who is an expert educationist. He has served as a senior lecturer at the University of Applied Sciences at Utrecht for 20 years. He has also worked on design of a new curriculum based on the didactical framework of a Project.

Mr. Jonges discussed evaluative techniques while focusing on benchmarks, Goal-Oriented Study Criterion Development. He shed light on the contemporary issues surrounding Architectural education in a global and regional context and highlighted the practices followed by the leading architecture schools



worldwide. He gave examples of renowned schools and gave his invaluable suggestions on improving the curriculum and teaching practices in SADA.

## IESE conducts Seminar on Environmental Protection

A seminar on environmental protection was organized by NCSC on March 8, in which Mr. Imran Hashmi, Associate Professor at NUST Institute of Environmental Science and Engineering (IESE), SCEE gave a presentation on water pollution, hospital waste management, solid waste management, air pollution and pesticide pollution.

The presentation included instructions and recommendations for individual contributions that can remarkably enhance the efforts spent worldwide to protect the environment like waste segregation, saving in water consumption, energy saving, emission reduction and dissociation of industrial land from residen-



tial areas. Speaking to the gathering, Mr. Hashmi highlighted the environmental hazards faced by our country. He spoke about the importance of water and stressed how it was becoming a precious entity with the passage of time. He also emphasized the need to revolutionize our energy production methods by switching to renewable sources of energy.

At the end of the seminar, Mr. Hashmi gave instructions and recommendations on individual and social behavior that contribute to the preservation of the environment. Many students from different faculties attended the seminar. This event is continuous invitation by NCSC for the welfare of our environment inspired by various international organizations such as World Wildlife Fund (WWF).

## Application of Engineering Geology in Civil Engineering Project

Supplementing the course of Engineering Geology, a session on "Application of Engineering Geology in Civil Engineering Project" was held for the Batch 2012 of NUST Institute of Civil Engineering (NICE), SCEE at NIT Auditorium on March 13. The session was aimed at highlighting the importance of geological and subsurface explorations and studies prior and during the construction works. The guest speaker for the session was Kanwar Sabir Ali Khan, Ex-Deputy Director General, Geological Survey of Pakistan.

At the onset of the seminar, Mr. Kanwar explained the definition and applications of engineering geology as well as its relationship with civil engineering. He stated the scope of geological studies in civil and public utility structures, Geo-hazards and adverse geo-conditions mitigation and various methods of geological investigation. He also narrated the classification of different rocks, geological faults and their orientation which are needed to be studied thoroughly before construction of buildings and tunnels.



## Donation to Hangu self-help school

NUST Community Service Club (NCSC), realizing the importance of education and its impact on the society, donated PKR 10,000 to a self-help school in Hangu on 3rd March 2013. The money was used to buy interactive learning material for about a hundred children, in order to make their learning process fun, and more effective.

Quoting in Quaid's words, "Education is a matter of life and death for Pakistan." Considering the progress in the world, and the place where we, as a nation stand today, it is desperately needed that modern and effective means be employed in educating the youth so that we can not only compete with the world, rather set example for them to follow.



## LS DYNA training workshop at SCME

School of Chemical and Materials Engineering (SCME) dedicated an entire week to the 'LS DYNA Training Session'. Held from March 25 to 29, this session was designed to thoroughly acquaint the attendees with the practical usage of the world famous explicit finite element software, LS DYNA, which is used by scientists and engineers to perform simulations of dynamic structural load elements like impact, crash and explosions. The highly skilled resource person on the occasion was Dr. Qasim H. Shah, Associate Professor at the department of Mechanical Engineering at International Islamic University Malaysia. The event commenced with a welcome address by Dr. Muhammad Mujahid, Principal SCME, who introduced the participants to NUST, its departments, programmes and linkages. Dr. Qasim then introduced himself, expressing joy at being back in Pakistan and recalled how he 'fell in love' with LS DYNA 10 years back and has worked on it ever since. He has been teaching LS DYNA courses since 2006, at Hokkaido University Japan, UMP and UPM in Malaysia.

To impart training on finite element modelling and analysis of mechanical systems, the students were given hands-on instruction on skills in using LS PrePost at SCME Simulation Lab. The first day focused on basic instructions while day two shifted to the practical application of 'Projectile Impact on Target Plate'. The examples became more complex on the following day which introduced more important principles including sets, boundaries, dynamics etc. Their application was tested in the example of 'Projectile Impact on a Box'. The final day shed light on some important considerations of predicting dynamic transient events.



Participants were given step-by-step instructions on every assignment which they perfected through extensive details and logics of commands used. Dr. Qasim not only answered their queries but also shared with the students some links and resources to obtain useful information in future.



## PDC, NILE conduct training for newly inducted NG staff



Professional Development Center (PDC), NUST, organized an orientation training programme for the NG Staff on March 21. As many as 23 newly inducted NG employees, including 1-16 grade employees of NUST, were invited to attend the session. The one day session commenced with opening remarks by Engr. Azhar Pervez, Director HR department at NUST, where he welcomed the attendees, instilling motivation in them by discussing what NUST has to offer to its employees and what it expects in return. AD Sarib Hayat from HR department gave an overview of NUST; its various directorates, constituent schools, channel of communication and reporting through directorates and employment rules and policies. AM Sehrish Aslam informed the staff on codes of conduct, attire, discipline, support services and policies of banking/ATM. Ms. Naila Sadiq Mir of Center for Counseling and Career Advisory (C<sup>3</sup>A) also gave a presentation for the employees, motivating them to ensure optimal performance in the NUST environment. Mr. Sultan Ahmad Bhutto of NUST Security Department introduced the staff to policies of his area including issuance and importance of NUST card, emergency procedures and entry/exit procedures. Finally a visit of H-12 campus was organized by the Professional Development Center (PDC).

## Sessions on ‘Personal Branding’ and ‘Building You’ conducted

‘Brand you’ was a session organized by SCME Alumni Association to highlight the importance of personal branding in professional life. The session was held on March 4 in School of Chemical and Materials Engineering (SCME) and invited students from all over NUST to acquire the art of branding strategies via communication tools.



The Guest Speaker on the occasion was Mr. Osama Hasan, a Chemical Engineering graduate from NUST currently employed at Coca-Cola Company. His session unfolded with an introduction to the importance of personal branding in the modern day, with social media and resumes being the principal channels through which the candidates express their capabilities to the employers. Rigorous focus was placed on producing a Resume that instantly grasped attention and highlighted the skills and achievements of the candidate most efficiently.

Mr. Osama held another similar session on ‘Building You’ on March 23 at SCME. The training covered the most sought out sections of self-branding including resume building, LinkedIn profile development, and conducting successful interviews. Mr. Osama shared his thoughts on the importance of LinkedIn in today’s job market and also gave a hands-on opportunity for the participants to make their LinkedIn profiles.

## Lecture on Construction Practices

Engr. Masood Ahmed, General Manager, HAKAS Private Limited, Islamabad delivered a lecture on Construction Contracts on March 4. He has 22 years professional experience in Pakistan and abroad. The target audience for the seminar was MS Construction Engineering and Management Class. During the lecture, Principal SCEE, Dr. Nasrullah Khan and faculty members were also present. The speaker explained the Construction Contracts from contractor’s point of view. Students showed great interest in the talk and asked several questions regarding the real life problems related to contracts.



## Students from NBS excel in All Pakistan Universities Radio Production Award competition

BS (2K12) Mass Communication Students of NBS, NUST, Ms Rubab Batool, Ms Zari Asif Turk, Mr. Aminah Javed, and Syed Musa won the FIRST position in all Pakistan Universities Radio Production Award in a category of Creative Work. The competition was arranged for all universities, and degree awarding Institutes offering MA/MSc Mass Communication. The Mass Communication team of NUST was honored with a shield, certificates of appreciation and cash prize. The competition was organized by Pakistan Broadcasting Corporation (PBC) in collaboration with USAID and Aurat Foundation under Gender Equity Program to create awareness of gender issues through radio programs.

The creative work of the young students of BS 2012, "Main Be-qasoor-Hoon" (audio drama)

was on Gender Based Domestic Violence under the supervision of Mr. Omar Javaid Hashmi, Program Producer for Voice of NUST of Mass Communication.



## BBC Journalist speaks on News Ethics

A renowned journalist of BBC, Aljazeera and film maker, Mr. Mubeen Azhar conducted a seminar on 'Ethical Violations in Media and Code of Ethics' to the students of Mass Communication 2k10, 2k11 and 2k12 at NUST Business School. The teaching faculty and head of the department Dr. Masrur A. Khan also attended the seminar.



Mr. Mubeen Azhar, a Yorkshire born Pakistani has a bachelor degree in law and also holds master's degree in comprehensive religion and journalism. Mr. Azhar has worked with BBC, Al-jazeera for ten years and now he is a free-lance journalist. In his talk, he gave the example of a published article which contained anti-Arab sentiments and termed them terrorists. The writer had to face consequences and submit a formal apology which was given equal space in the newspaper as the article itself. He further emphasized on the importance of following the ethical code in journalism by relating the example of a British journalist Rebecca Brooks who failed

to follow the ethical code of conduct and the whole newspaper had to suffer as a consequence and was banned. He also commented on the ethical consideration that should be kept in mind while reporting other religions and their practices by giving example of a controversial article 'We Owe Arabs Nothing' by Robert Kilroy-Silk was published in Express UK that offended Muslims sentiments.

He also explained the difference between OFCOM, media regulatory authority in UK and PEMRA and further emphasized the responsibility of the editor in charge to follow ethical issues before publishing a news item. At the end of the seminar, he was presented a shield as a token of appreciation by Dr. Masrur Alam Khan.



*"Have the courage to say no. Have the courage to face the truth. Do the right thing because it is right. These are the magic keys to living your life with integrity." W. Clement Stone.*

## Google e-Seminar

Research & Development department of Rawalpindi Chamber of Commerce and Industry (RCCI) organized "Google E-Seminar" on March 13 in NBS Seminar Hall. Mr. Badar Khushnood, Country Consultant Google Pakistan was the resource person. The students of MBA-2K11, MBA-2K12, BBA-2K9F, BBA-2K10 and BS-Economics-2K9 attended this informative seminar. The members of RCCI who were present on the occasion include Mr. Najam ul Haq Malik (Group Leader RCCI), Mr. Manzar Khurshid Shaikh (President RCCI), Ch. Nadeem A. Rauf (Vice President RCCI), Mr. Muhammad Aqil Obaid (Executive Committee Member), Malik Shahid Saleem (Executive Committee Member), Raja Omer Iqbal (Chairman RCCI Standing Committee on IT), Mr. Saqib Rafik (Chairman RCCI Standing Committee on Young Entrepreneurs), Miss Afsheen Siab Kiyani (Assistant Secretary Research & Development Department) and Miss Amara Saleem (Research & Development Officer). President of RCCI Mr. Manzar Khurshid Shaikh also addressed the seminar. Principal & Dean NBS, Dr. Ashfaq A. Khan presented the shield to the resource person and RCCI President.



The seminar was organized in the light of MoU signed by the NUST and RCCI on 28th June, 2010. The main purpose of this collaboration is to develop an agenda of relevant research areas of mutual interest to NBS & RCCI. An associated interest is to equip the future Leadership Cadre of Pakistan with theoretical training as well as practical experience in policy issues as experienced by the production sector of the economy.

## 'Raise Your Voice' session held at SEECS

'Center for Leadership' is a body of NUST-SEECS with the aim of making youth focused and goal-oriented through better communication and leadership skills. It works to enhance the communication skills, speaking skills and intellectual abilities of students. "Raise Your Voice" was the first of its kind workshop on public speaking that was organised by SEECS on March 2. It not only gave the students the opportunity to work on their problems related to public speaking but also helped them overcome stage fright and become effective speakers.

The workshop had two parts; an inspirational and interactive talk by Mr. Mohsin Lodhi and fun-filled and interactive activities session to practice public speaking skills. Mr. Mohsin Lodhi who is adjunct faculty at NUST is an inspirational motivator, technical and management mentor, Personal Development advisor in the realm of Problem-Solving, Decision-Making, Team Building, Leadership, Communication Skills and Presentation Skills. Currently, he is Managing Director, MONTANA computer systems, CEO Atlantis Water and IFC (World Bank) Certified Trainer for International Training Program. He emphasized the importance



of positive thinking in one's life. Through subtle examples from our Holy Book, he advised the students to adopt humble behavior and to listen patiently to others.

Different activities were conducted to practice the tactics and methods of public speaking and overcoming stage fear. The 2 activities included 'Sell it' in which the participants had to sell an ordinary item from their speaking power and 'If you were' in which students were given a scenario and they had to relate themselves with the situation and share their thoughts with the audience. The participants enjoyed these session by adding humour and confidence to their performance.

## Successful recruitment drives

Industry Liaison Office (ILO), NUST has been involved in bridging the gap between the industry and the academia at NUST through various events and activities. Carrying on its tradition of strengthening Industry Academia partnership, ILO hosted a series of recruitment and internship tests in February and March 2013 for the students of NUST H-12 and other constituent colleges namely EME, MCS & MCE.

Many prominent names of the industry visited NUST for recruitment drives and Employer sessions. A few of these include Indus Motors on February 14th, Unilever on February 19th, Procter & Gamble on February 28th, Microtech on March 8th, ICI Pakistan on March 13th, and Fatima Fertilizers on March 14th.

The events started with Employer sessions which provide an insight and exposure to students regarding job prospects and career progression in a particular company. Later, the actual tests were held at the newly built NUST Exam Hall with capacity



up to 500. The visiting teams shortlisted students for the interviews based on their performance in the recruitment tests. The interviews were also held. In some cases, the visiting companies also held discussion groups for the shortlisted candidates. These generally involved dividing the students into groups of eight and giving them topics to have a general talk and perceive their way of thinking.

Liaison Office undertakes such recruitment drives and career development sessions throughout the year, as these drives not only prepare students for the corporate world but also give them an excellent networking opportunity which in turn increases the employment opportunities of NUST graduates.

## SADA holds lecture series and workshop

A lecture series on 'Computational Design on Architecture' and a workshop on 'Parametric Modeling in Architecture' were conducted simultaneously in SADA from March 25 to 29.

The lecture series was conducted by Dr. Neil Leach who is a PhD in critical theory and professor in multiple architectural school. His lectures were aimed at apprising students on how emergent technology related to computers, computational simulations, modeling and digital fabrication is improving the architectural world and how these tools are changing the face of architecture through better understanding. It covered myriad of topics ranging from brief history of architecture, information about tools, styles, structures and ideas development. It aided students in comprehending how computer technologies can change the face of planned cities in a unique manner and how multiple users or agents can create a new design process exemplifying them by looking into the swarms in animals, their mechanics & dynamics and how these ideas can be related to better designing. The students were also given insights into designing machines.

Furthermore, the workshop was conducted by Miss Behnaz Farahi who is a PhD student in film studies. She taught the students the use of softwares like Rhinoceros 5, which is a 3d modeling software

and employs multiple plugins, grasshopper, used for computer scripting and force modeling using 'kangaroo'. It also showed them the way of converting these designs to fabrication using CNC. The workshop's special component was teaching the students the way of getting real time feedback from circuit called 'adreno' into the computer. The prime objective of the workshop was to shed light and enhance the understanding of students on scripting using grasshoppers. The students also designed a pavilion at the end of the workshop based on computer scripting and presented it in an exhibition.



## Students volunteer for REDO renovation Project

NUST Community Service Club, in an attempt to motivate and mobilize the student workforce for bringing a positive change in the society, arranged a field activity: REDO Renovation Project. Rawalpindi Eye Donors' Organization (REDO) is a charity based eye donation and kidney dialysis centre operating in Rawalpindi. In the 2 day activity, over 100 students participated and painted the building.

Phase 2 of the renovation process consisted of decorating the interiors in order to add color and to make the atmosphere of the dialysis centre cheerful. Also, NCSC teamed with NUST Fine Arts Club to make student made wall hangings. A team of students visited the building on March 2, and completed the final look. This marks the completion of the renovation project. However, NCSC will be carrying out projects in the future with REDO regarding eye awareness.



## Commercializing innovations in global market

School Of Chemical and Materials Engineering (SCME), NUST, invited Mr. Salman Farooq, Vice President of Capital & Global Market PolymerOhio Inc. on March 27. PolymerOhio is an industry connecting and networking group that is focused on enhancing the global competitiveness and growth of Ohio's plastics, rubber and advanced materials industry.

Mr. Salman began with an introduction to polymer and advanced materials industries mentioning how Ohio is home to 2400 such companies. He introduced PolymerOhio as a non-profit organization whose sole purpose is to serve polymers and advanced materials industry by making polymer companies grow and making them globally competitive. The first step to starting up companies is through Industry Strategic Planning via Polymer Ohio Strategy Council. It analyzes the feasibility of proposed projects and then devises a strategy to help them reach completion.

In the words of Mr. Salman Farooq, "Nothing works better than having a success story and capitalizing on it", it was how legislators started to pay attention to the budding industries in Ohio and contributed to their growth.

Ohio Polymer works via three basic strategies; New Technol-

## Seminar on Indus River System Authority at SCEE



A seminar on Indus River System Authority (IRSA) was arranged for Batch 2009 of NUST Institute of Civil Engineering (NICE), SCEE on March 8 at NIT Auditorium. The Guest speaker for the day was Dr. Amjad Nabi who did his PhD from Soil and Water Engineer, UPM Malaysia and is Individual Consultant/Principal River Engineer at Project Management and Policy Implementation Unit (PMPIU), Ministry of Water and Power. The speaker enlightened the students with the role of IRSA and the Water Apportionment Accord of 1991. He commenced his presentation with several water distribution accords and agreements in the past starting from the Anderson Committee of 1935. Then he explained the provisions of the Water Accord 1991, the distribution of water during the kharif and rabbi seasons and also the distribution of balance river supplies.

The guest speaker also explained the appointment and term of office of chairman and members at IRSA as well as its functions and objectives. Dr. Amjad elucidated the audience with the decision making mechanism of IRSA and then the "Three Tier Formula", stating distribution of water for different scenarios. Finally, use of telemetry for the accurate distribution of water resources was highlighted. The seminar was a source of information for the students which would help them in hydrological studies of Pakistan.

ogy Commercialization, Value Chain and Talent promotion. The organization has access to world-class technologies, scientists and professionals that aid companies and industrial projects in development and design of new materials. The informative talk was followed by a Q&A session where students actively inquired of the steps required to take an idea from initiation to completion.



## Seminar on Stress Management

Dealing with daily life stressful situations might get annoying for some. Dr. Salma, while addressing the students and faculty at stress management seminar, which was held at RIMMS auditorium on March 5, taught the audience how to cope up with the daily life stress. The session was very interactive one and was well received by the audience. The speaker also addressed the queries of the attendees about their problems.

The seminar was held to assist the attendees to identify the causes of their stress and provide them with practical tools and training to address those causes in order to avoid, reduce

and manage the stress in their daily life. Dr. Salma explained comprehensively different strategies to tackle the stressful situations such as emotion focused and problem focused coping strategies. She said that stressful feelings like anger, anxiety, sleeplessness and worry can be easily disrupted by simple ways to relax like going for a walk, exercising yoga, working in the garden, a good book or watching a comedy, which ultimately makes the mood light. Finally the seminar concluded by presenting a token of appreciation to Dr. Salma. This seminar was a part of the series of seminars held by the NUST Community Service Club for the students and the course participants of the Community Service Course.

## Stress Management Seminar held

A seminar on 'Stress Management' was organized at NUST Institute of Civil Engineering (NICE), SCEE for the 2009 batch on March 27. The keynote speaker for the occasion was Wing Cdr. (Rtd) Professor Hameed A Bhatti. The speaker briefed the audience about different types of stressors which include the environmental stressors like heat, cold, toxins, some psychological stressors like threat to self-esteem, depression and other sociological stressors like death of a loved one, unemployment and then there are other philosophical stressors like use of time and purpose of life. He then explained several stress management techniques to apply in daily life situations. The speaker highlighted the importance of laughter in life and how it is a potent stress management technique. It was an informative session for the engineering students for whom stress of different levels is a norm.



## ASAB welcomes Dr. Xianming Chen for PAK-US Collaboration

Principal ASAB, Prof Dr. Muhammad Ashraf and the school's faculty welcomed the delegation headed by Dr. Xianming Chen, from Washington State University (WSU) and Mr. Ian Winborn, facilitator from US Embassy. The meeting was held on March 19 and was aimed at strengthening PAK-US collaborations in Research and Development.

The duo identified food shortage as a dire threat to well being of any nation, in relation to which they discussed their research in securing wheat production, wheat being the food source for over half the population. The meeting stressed on their respective institutions i.e. WSU and NUST, on pooling resources towards working on food security in South East Asia. Dr. Ashraf and Dr. Xianming discussed their most recent project for 'Food Security in Relation to Climatic Change in Southeast Asia'. They also expressed their anticipation for success in relation to

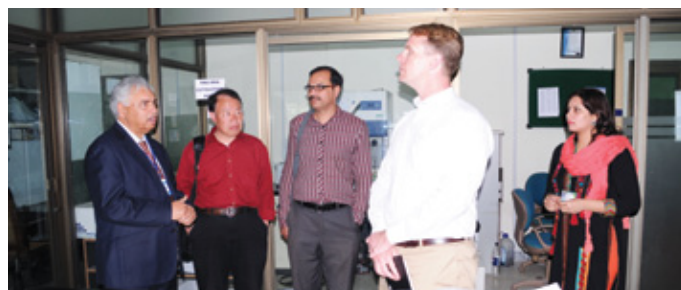
## NCSC participates in International Women's Day Celebrations



International Women's Day

A three-day festival was held in Lok Virsa, organized by Lok Virsa, Parliamentary Commission for Human Rights and LOK Parya (NGO) to mark the International Women's day on March 9. A delegate of NCSC including the faculty sponsor, Dr. Irtiza participated in the event. Stalls having the hand made items reflecting the traditional themes, made by the women of different regions were displayed. In addition, a range of activities took place that were informational, and also highlighted the skills and talents of Pakistani women and the respect and encouragement they deserve.

The event was inaugurated by the First Lady of Pakistan, who emphasized, that for the prosperity of our country, we have to make sure that we include women in various walks of life and give them their due right.



their project submitted to The Pak-US Initiative 2012, since the achievement would be a great asset not only to their institutes but mainly to Pak-US cooperation.

Previously Dr. Ashraf and Dr. Xianming Chen had collaborated on a PAK-US project titled 'Secure Pakistan Wheat Production through Controlling Rusts'. Nearly 20 institutes worldwide, inclusive of NUST, had worked together on publication titled 'Comparative Virulence and Molecular Diversity of Stripe Rust; collections from Pakistan and USA'. The faculty of ASAB led the delegation through a tour of the school's state-of-the-art Labs.

## Waste will not go waste

Centre for Waste Management, Pakistan organized a three day training workshop on "Composting Technology" at the Institute of Environmental Sciences and Engineering-NUST, Islamabad from March 6 to 8. As many as 79 participants from different parts of the country were gathered at this event.

The objective of the training was to build capacity of students, professionals and community representatives that are responsible for managing solid waste and converting it to a useful product in the form of compost. The presentation sessions were facilitated by experts from across the globe, sharing their practical experiences with different composting techniques followed by interactive discussions with the participants.

The Patron in Chief, Center for Waste Management, Prof. Dr. M. Anwar Baig, concluded the training by giving an overview of the existing scenario and requirements for waste of Pakistan. He appreciated and thanked the participants for attending this



workshop and making it productive with their healthy discussions.

The closing ceremony was honored by the chief guest, Prof. Dr. Ishtiaq A. Qazi who chaired the closing ceremony and awarded certificates amongst the successful participants.

## SMME on project 'Optimization of Production Line'

School of Mechanical and Manufacturing Engineering (SMME) proposal to Pakistan Fan Manufacturer Association (FMA), Gujrat and the project 'Optimization of Production Line' was accepted and Dr. Shahid Ikramullah Butt was appointed as principal investigator. The project aims at developing an understanding of the production planning methodologies at small and medium industries in Pakistan, with the objective of identifying various 'lean manufacturing' tools that could be employed to achieve relative improvements in production efficiency. Starco fans, based in Gujrat, have been identified as the case study organization for the initial data collection and research. The first stage of the project would focus on development of a Value Stream Map (VSM). It would be followed by identification and suggested remedial measures for bottle neck processes. The final stage would focus on creating cash flow at each step of the process through arrangement of workstations. The VSM model developed would be useful for other fan manufacturing industries, as the fabrication and assembly steps mostly remain unchanged. SMME facilitates its students to learn through industrial exposure which later proves to be helpful for them.



## Tech Talk: a lecture on Certifications



On 28th March, the CEO of Obiz Pakistan, Asif Akber, was en route to the School of Chemical and Materials Engineering (SCME) at NUST in Islamabad. He had been invited by the NUST Science Society (NSS), to deliver a lecture on Certifications. The Tech Talk focused on developing special skills through certifications that may help the young minds when they enter the industry. Mr. Asif is a gold medalist in Petroleum Geology. He has spent over 7000 hours training youngsters at various certification workshops.

His presentation focused on giving details about different Certification Programmes in Pakistan such as OSHA (Occupational Hazard and Safety Administration) and NEBOSH (both of which are offered by Obiz Pakistan). It was further said that the validity of the Certification Programmes was from six months up to two years. At this point his emphasis shifted from purely Certifications to the importance of constantly gaining knowledge.

Mr Asif Akber was insistent that the whole point behind a certification was to gain specific knowledge in areas such as industry safety or data management and to satisfy the requirements of certain jobs. Certification training programmes are expensive and large investments should only be made when they are certain to bear fruit. He concluded by saying that with the right skills and knowledge Pakistan would set its own standards instead of adopting the conventional standards of the west.

## Guest speakers at PNEC

A lecture on 'Solid Oxide Fuel Cell' was delivered by Dr. Rizwan Raza, Asst. Professor Department of Physics, COMSATS Institute of Information Technology Lahore on March 8 at PNS Jauhar Auditorium. The lecture was attended and appreciated by both faculty and students of the college.

Another lecture on "Living Fearlessly" was delivered by Professor Dr. Moiz Hussain, Chairman Institute of Mind Sciences, Karachi at Bahria Auditorium. The lecture saw attendance from both faculty and students of the school as they received the chance to interact enthusiastically with the speaker in the Q&A round.



## MCS faculty attends International Conferences

Commandant MCS, Brig. Ali Farhan attended a 2-day International Conference on 'Innovations in External Quality Assessment: Chain of Quality' held from Feb 13 to 14 at the Sukosol Hotel, Bangkok, Thailand. Asia Pacific Quality Network (APQN) is a non-profit organization established in 2004 and developed with the interest in quality assurance (QA). Its mission is to enhance the quality of higher education in Asia and the Pacific region through strengthening the work of quality assurance agencies. To celebrate the 10th Anniversary of the establishment APQN, ONESQA (Thailand) in cooperation with APQN organized this activity in which a total number of 33 participants from 25 member countries of APQN along with organizers/officials of APQN and ONESQA participated. From Pakistan, Director QA, Riphah International University, Islamabad and a faculty member from Punjab University Lahore also attended the conference.

Dr Muhammad Hanif, a Faculty Member from MCS (NUST) also attended International Scientific Spring (ISS 2013) held from March 11 to 15 in (NCP), QAU Campus, Islamabad. This activity was jointly sponsored by National Center for Physics (NCP) and International Center for Theoretical Physics (ICTP), Trieste, Italy. More than 360 Physicists from various universities and R&D organizations of the country participated in the activity.



## Lectures on Quality Assurance for faculty and students at MCS

MCS arranged a one-day activity on March 20, by inviting Dr Kamran Moosa, CEO of PIQC Institute of Quality Assurance, Lahore as Guest Speaker. The first lecture titled 'Teaching, Learning, Assessment and Evaluation based on Quality Assurance' was organized, for faculty members including DD (Q&A)–NUST, Engineer Muneer Butt, attended the lecture. Another lecture titled Engineering Practices Based on Quality Assurance' was also delivered. Both the lectures were appreciated by faculty as well as students. Dr Muhammad Hanif, Head department of (H&BS) coordinated and arranged the activity, whereas, Dr Saeed Mur-taza, OIC (Q&A) at MCS conducted both the sessions by inaugurating and concluding the sessions. At the end of the sessions, Dr. Fahim Arif, CI (Engineering Wing) of MCS gave away the College Souvenir to the Chief Guest on behalf of College Commandant, Engineer Ali Farhan.

## Annual General Meeting 2013 of IEEE PNEC

The annual general meeting of IEEE, PNEC chapter, was held on Feb 26, 2013 at PNEC. Present and alumni members of IEEE PNEC, selected faculty members and guests from corporate sector/academia attended the event. The meeting featured a transfer of power ceremony in which the new elected Executive Committee of IEEE PNEC Student Branch took charge of the society and paid farewell to the outgoing Executive Committee. Furthermore, the briefing of the activities in the past year by IEEE PNEC Student Branch was given to the administration.



## 04 Co-curriculars Corner

### e-Gaming tournament- Battle it online



Keeping in mind the myriad of gaming enthusiasts in SMME, the Student Council of SMME (SCS) organized an e-gaming tournament that lasted a week, starting from March 1. Three of the most popular games, each from a different genre of gaming were chosen for the tournament which included Counter Strike, Need for Speed Most Wanted and FIFA'11. The response from the student body including some faculty members was overwhelming and the organizers were soon flooded with registrations.

The tournament kicked off with spirited participants who were keen to outdo their opponents. All three games were played simultaneously according to the schedule. By the end of the week the competition grew more intense with only a handful of gam-

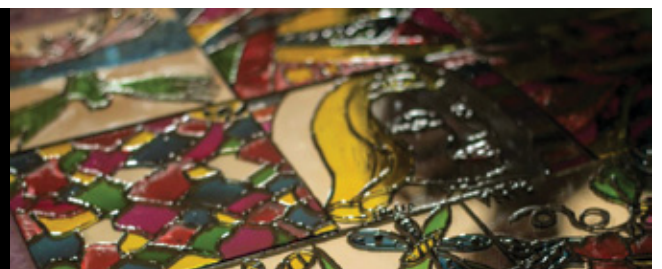
ers left. The final match was displayed on the projector in the lab and it was quite a spectacle with supporters of each finalist cheering them on.

The winner of NFS Most Wanted was Ahsan Javed Khattak (2k10) and runners up was Zain Fida (2k11). Arslan Ahmad (2k10) won the Fifa'11 while Asghar Ali Naqvi (2k09) was the runner-up. In counter strike, the winning team included Zain Fida, Syed Umar Jawad, Ahsan Shahid, Mian Muhammad Hamdoon, Wajeesh Hasseb & Idrees Hussain from 2k11 and the runners-up were "Bandooka Chaku Churian" consisting of Umar Farooq Ghumman, Ahsan Javed Khattak, Maaz Husain, Ali Safdar, Ali Ahsan from 2k10. Cash prizes were handed to the winners of each game.

### Glass Painting Workshop

Glass Painting Workshop was held by NUST Fine Arts Club. The workshop was a mob of excited participants provided with the most entertaining surroundings to manifest their skills and absorb the beauty of arts. As many as 90 students from different Schools of NUST participated in the competition.

After the extremely elaborate demo from President of NFAC, Rehab Ahmed, the workshop commenced with students enthusiastic to begin their glass painting. All the participants were given paints, brushes, lead tubes and glass. Some exceptional artwork was witnessed on the event. What added extra energy to this workshop was the element of music. Participants not only wanted to paint, they wanted to dance and sing along with the tune. The most outstanding part of the workshop was undoubtedly the generous sponsorship from Red Bull Islamabad, a can of which everyone enjoyed while being absorbed in painting. Participants were focused and determined to create beauty with their artistic skills, and produced elegant paintings on glass. This workshop was a proof that NFAC has improved many degrees over the past one year.



## RC Heli Show at MCS

Telecommunication and Software Societies of MCS under the supervision of Col. (R) Raja Iqbal invited Mr. Aamir Wattoo MCS Alumnus, now owner and CEO Ibex group of companies to display Remote Control Helicopters Flight. On March 27, Mr. Aamir Wattoo with his 3 team members presented the heli demo flight. The primary flight was of Burhan Idrees who is the winner of 2012 Pakistan wide Hobby Lobby RC Competition held in Lahore in the advanced 3D Heli category. They flew two of the most advanced and best RC Helis in the world right now: SAB Goblin 700 and Mikado Xtreme 800. The RC Heli show included 3D flights which were considered to be the advanced form of Heli flying. The manoeuvres were taken from the well known competition around the world known as Extreme Flight Championship XFC. This unique on-campus show provided enjoyment to the students.



## MCS wins annual Floral Exhibition 2013

The four-day Annual Spring Flower Show, jointly organized by Rawalpindi Cantonment Board and Chaklala Cantonment Board at Race Course Ground (RCG) was held from March 30 to April 6. The floriculture lovers from across the city visited RCG to see rich variety of flowers on display. The venue presented a festive look where exquisite colors and aroma of fresh flowers added to the aura of the exhibition. The vibrant show featured exhibits and stalls busting with colors and creative ideas thus making it an attractive spot befitting the spring season. More than 100 individuals as well as team participants from the twin cities took part in the exhibition. MCS won the overall first prize with exquisite floral exhibits in the categories of flower collection, large sized exhibition in addition to national flag and map arrangements. The winning team was awarded a shield and cash prize. It is pertinent to mention here that MCS under the present command recently started a dedicated drive to promote horticulture with emphasis on adorning the lawns of campus with multicolor flowers. In the current season alone, over 10,000 flowering plants and saplings of 13 varieties have been planted in the College premises.



## SEECSONIAN SPIRIT

**S**eek to grow and prosper day and night;  
**E**mulate excellence, wherever in sight  
**E**xplore and probe with unceasing passion;  
**C**reate new depths to the knowledge's ocean  
**S**tay firmly focused on a lofty aim  
**O**blivious to discredit or acclaim;  
**N**either neglect nor abandon diligence;  
**I**nnovation alone makes the difference  
**A**ccept challenges, however daunting;  
**N**o fears should ever be haunting

Aslam Bazmi

# Experience NUST at LUMS Olympiad

This year LUMS Olympiad was held from March 18 to 21. A team from NUST Business School was sent to Lahore to compete with other universities of Pakistan in this event.

Hamza Baig, Qazi Wahaj-ul-Haq and Danyal Ahmed of Mass Communication 2k10 (NBS) participated in 'Speed Filming' and 'Ad Making' competitions of LUMS Olympiad 2013. They won the speed filming competition and were given the 'Best Video' award. They also earned the 'Best Concept' award for Social Service Message in the Ad Making competition. For 'Speed Filming' competition, all the teams were assigned two props; a mirror and filming to be used in their short movie.

For 'Ad making competition', there were two rounds. For the first round a short public service message had to be submitted

on the topic 'Think before You Speak' and for the second round a product, ladies' perfume was assigned to all the teams for making an advertisement.

Not only this, Umer Naseem Khan and Akbar Latif Khan of BBA 2k10 (NBS) won the 'Stock Exchange Simulation' competition. NUST won first place while IBA was the runner-up. There was professional stock trading software, which followed real time market from the Karachi Stock Exchange. Each team was given an initial amount of money to invest and generate profit. Team NUST had a total revenue of 51,000, while their profit was 21,000. Team NUST proved its excellence over the other universities in this competitive environment. These competitions reflect the quality of education and standard that NUST promises.



## NBS students shine in LUMS Synergies Case Study Competition

Two teams from NUST Business School took part in LUMS Synergies Perspicacia Case Study Competition held at Lahore University of Management Sciences (LUMS) from March 1-3, 2013.

Perspicacia is a Business Case Analysis competition, testing the analytical and presentation skills of the participants. Students applied their knowledge and skills to real life, pulsating and challenging business cases. The competition was conducted in 2 rounds in which teams from universities all over Pakistan competed including LUMS, IBA, LSE, COMSATS Institute of Information Technology, AIR University, Bahria University, etc.

The team comprising students of Bachelors in Public Administration (BPA 2K10) bagged the first position, while the second team, comprising students of BBA 2K10A, was declared the 1st runners up. Along with receiving shields and certificates, the winning team was also awarded a cash prize of Rs. 30,000. The members of the winning team were Sadaf Basharat, Shaheera Syed, Sheikh Aqeel Ahsan, Sarah Hamayun and Zoha Fatima. The team which was declared

the 1st runners up included Gulraiz Khalid, Aymun Musaddaq, Aisha Khan, Taimoor Shahzad and Rana Mujtaba.

The case study competition was conducted in a typical LUMS MBA Case Study Class style which intended to give the students a demonstration of how case studies are analyzed at LUMS. The judges were industry leaders from several areas who judged the participants on a pre-defined criterion. The perseverance and hard work put in by the students was fruitful where NBS outshined all other leading business schools of the country.



## The Photo Hunt

It was a day marked by excitement and festivity as the participants gathered in front of the RIMMS building for the Photo Hunt on March 12. The task was to understand the hints, ingeniously designed by the organizing team, given in the multicolored handbook provided to each participating team and then take a picture of it. Each hint was worth points and the team with the most points at the end of the hunt was to be declared the winner. Also, the hints were categorized in zones with each zone representing a specific area of the campus. It was expected at first that only 10 teams would enter for the competition but at the start of the event, a whopping 81 teams had

registered for the hunt. After 2 hours of non-stop searching and running, the hunt was finally over. The winners, contradictory to most people's expectations were an all girls group; A5 Campians consisting of Amna Ahsan (team leader), Aneesa Abbasi, Adoniah Carmeline, Aamna Hashmi and Ayesha Lodhi. They gained maximum points and were awarded with Rs 5000. In addition to that, the 1st and 2nd Runners Up, were awarded with a Red Bull for all their team members. The event was riveting and exciting as one participant remarked, "This is the most fun I have ever had. To hang out with my friends and explore NUST has been an extraordinarily remarkable experience".



## SCME bids farewell to winters with a bonfire

A Bonfire was held in School of Chemical and Materials Engineering (SCME) and was organized by SCME Event Management Society (SEMS) On March 4. Principal, Dr. Mohammad Mujahid, students and faculty as well as their families were invited to attend the event. The 'Daaku' themed Bonfire gave the audience a chance to bid farewell to winters in a traditional yet timeless fashion, as they all gathered around a warm fire on a chilly night. The event featured a wide range of performances by students including various musical shows where the harmonica and guitar duet won the crowd. Song dedication to SCME's faculty, humorous plays, parodies and dance-offs were also prepared by the creative engineering students. The announcement of the arrival of 'Imran Khan's INQUILAB' had the spectators in stitches. One session that had the crowd cheering was a series of dares which the host challenged the most fearless of the audience to accept, inviting the daring volunteers to swallow raw eggs and gulp a stack of green chillies. Stalls were set up to complete the night with a selection of delicious cuisines. The excitement was concluded as one of the students/faculty members was crowned 'Mr. SCME'. Chosen based on the audience votes, this title went to Hammad Ahmed. The bonfire gave the opportunity to SCME to rejoice in the perks of winter season.



## ASAB visits Shahdra: Students experience Marine Bio-Technology on-site

The 2010 Batch of BS Applied Biosciences from Atta-ur-Rehman School of Applied Biosciences (ASAB) conducted a trip to Shahdra for Algae Sample Collection on March 8. This activity was to support the students' understanding of their curriculum subject 'Marine Bio-Technology'. The class was joined by faculty members Ms. Sadia Tahir, Ms. Saadia Zahid and Mr. Tahir Baig to aid the learning derived from the trip.

The algae samples were collected and slides were then prepared by students. It proceeded examination of the samples in Medicinal Plant Research Lab at ASAB. Students identified the following species of algae as a result of examination; Oscillatoria, Diatoms, Spirogyra and Pinnularia. Ecological diversity was truly experienced as different species of mosses, fishes and crabs were also discovered.

Although the trip was an educational one, it didn't prevent the students from indulging in some recreation, as they all took the opportunity to go fishing at the lake.



## ASAB Welcomes Freshmen-2013

Atta-ur-Rehman School of Applied Bio-Sciences (ASAB) organized a welcome party for their freshman batch on March 1 in ASAB auditorium. The event was attended by Principal ASAB, Dr. Muhammad Ashraf, faculty and students of the school.

The program began with an introductory video about ASAB and proceeded further with a range of well-acted, humorous skits. The stage and students were dressed up according to the 'Nawabs and Begums' theme of the event. Musical performances brought to stage some melodious voices from UG-4 and UG-3. Furthermore the entertaining performances by faculty members including the 'Gabbar' mimicry by Mr. Faraz Bhatti and Poetry by Mr. Tahir Baig were a delightfully entertaining surprise for the spectators. The seniors of UG-4 added to the range of activities by having a 'Pass the Pillow' game with their juniors. To wrap-up the day's excitement Dr. Muhammad Ashraf was called upon the stage. He took the moment to appreciate the tremendous efforts put in by students where he specially lauded batch UG-4 and ASAB Students Club. The event formally ended with the declaration of 'Saif-Ullah-Khan' as the Nawab and 'Rameeza Hassan' as the Begum of the evening.



## CAMP welcomes newcomers

BS Math Batch II of Centre for Advanced Mathematics and Physics (CAMP), NUST, organized a welcome party for Batch III of the School on March 1. The entire faculty of the school was invited to the welcome party which was attended by HOD, Dr. Rashid Farooq and Principal, Dr. Azad A. Siddiqui.

A video on the School's success story was shared with the audience which was then followed by a 'Mushaira'. Students prepared humorous videos by compiling various comic clips and pictures of the students at CAMP. A welcome party is incomplete without announcing titles to the juniors and the session was certainly present on the welcome night. Following the dinner was a series of musical performances by CAMP's Mughees and Shehryar. Among the most memorable moments, the audience recounted a dialogue by Toqeer Abbas, "F-16 niswar hai tmharay pas?" and the on-stage chemistry of Haider Butt and Mughees in their first skit. Rida Aleem, an organizer, expressed her satisfaction on the smooth running of the event.



## NUSTIANS at Heavy Mechanical Complex Taxlia and ICI, Lahore

The class of Materials Engineering, ME-03, visited Heavy Mechanical Complex (Private) Limited (HMC) on March 25. HMC is a leading casting of large mechanical parts used in sugar mills, cement industries and tanks. Different types of castings were shown to them and they were taken through the whole process of producing a machine part, from design to preparing a sand mold, melting the metal in furnace, pouring and solidification process of steel to the finishing operations of the products. Students were taken through workshops such as Foundry shop, Pattern shop and Casting.

The senior batch of materials engineering then visited ICI Ltd, Lahore, on March 27. The students were accompanied by faculty member Mr. Ahmad Nawaz. Presentations were given on the recruitment procedure of ICI. The presentation was on the plant including its history, operation, processes, products and economics. What followed was a round of the factory where the class visually experienced all they had been taught about processing.



## NIT students visit Bahria Golf City site

On March 6, faculty members and 23 MS students of Construction Engineering and Management Course from National Institute of Transportation (NIT), SCEE, visited Bahria Golf City Project located in Islamabad – Murree Dual Carriageway. Brig (R) Falak Sher, General Manager Works warmly welcomed the students and briefed them about the project. The class also visited Sheraton Hotel Construction site and learnt about the project management and construction technologies there. The students asked question regarding environmental impact of the newly developed project, planning of the project and application of the modern construction methods.



## Funfair at AMC

Like every year the funfair was organized at Army Medical Colleges to give the students a break from the routine and provide them with another platform to let creativity flow. The event was held in coordination with the 'Events and Dramatics Society' at AM College. All sorts of stalls were arranged in an orderly fashion where each year was provided with a separate enclosure to hold their stalls and themes were decided for each year by the respective reps to fight for the best theme title. The stalls ranged from dedications to loved ones to food and *mehndi* stalls. The hallmark of the event was the musical gala arranged by the members of AMC Music Society. 4th year MBBS were awarded as having the best theme stall.



## Spring Festival MCS 2013

The annual funfair titled 'Spring Fest 2013' at Military College of Signals, Rawalpindi was celebrated in an extravagant manner on March 16. It was organized by the Telecom and Software Societies in collaboration with MCS Training Battalion and event sponsor, Shezan. The chief guest of the event was Brig. Ali Farhan, Commandant Military College of Signals.

The chief guest appreciated the efforts of the organizing team and wished the students best of luck in their future endeavours. The Fest received an overwhelming crowd of over 2200 guests that included Commandant, HODs as well as faculty members, alumni and their families.

The preparation for the event started in early February by the Presidents of Telecom and Software Societies and culminated with stall decoration on the day of the event. More than two dozen stalls were set up in the main MCS ground, right in the heart of all the academic blocks. The stalls by the sponsors and organizers displaying intricate handicrafts and food items were appreciated by all the guests. Food stalls were the main attraction of the night as people gathered in crowds to taste the sumptuous mess delights.

The fun-filled event came to a close with the prize distribution ceremony in which the Mehndi stall by TE-46 and the "Gol Gappa" stall by Usama Zafar were declared the best stalls of the night and were given prizes by the chief guest.



## 04 Sports News

### All Pakistan Intervarsity Volleyball Championship

All Pakistan Intervarsity Volleyball Men Championship was held in Indoor Hall of College of E&ME, Rawalpindi under the arrangements of NUST H-12, Islamabad with the collaboration of HEC. 14 Men's Volleyball teams from All Pakistan Universities participated in the said championship with full enthusiasm. NUST provided the pick and drop & accommodation facility to all participants. Whole championship was held in a friendly atmosphere. Total 14 matches were played on knock out basis. In the exciting series of knockout matches, GC Faisalabad University was declared the worthy winners and champions of the tournament with University of Peshawar and Bannu University grabbing second and third positions respectively. Muhammad Afzal, Secretary General Pakistan Volleyball Federation & Member of Referee Committee of Asian Volleyball Confederation was



the chief guest in the opening ceremony. Col Qasir Mustafa who is a former International Volleyball Player and DD Army Sports Directorate GHQ was Chief Guest in the Closing Ceremony. He awarded prizes to winners with DD Sports Mrs. Robina Anser, Organizing Secretary of the championship.

### NBS Sports Fest

The sports fest kicked off on 11th March and reached its culmination on 21st March. The event witnessed the participation of entire NBS and consisted of teams from BBA 2k9, 2k10, 2k11 & 2k12 and MBA 2k11 & 2k12.

Starting with futsal in which each player displayed his wit on the field. The exciting series of matches lead to 2k9 competing with 2k10 in the final of the event. As expected, a close and nail-biting final match was played but it was 2k9 who with their greater experience and better play defeated 2k10 by 3 goals to one to be crowned the champions of futsal and earned valuable points for their batch.

This was followed by a football match. Exquisite display of individual skill and teamwork landed 2k10 and 2k12 into the finals of the event. With yet another final filled with adrenaline pumping action, 2k10 seemed to comprehend the chemistry of basketball and the net better than 2k12 and won the event.

After the boys, it was time for girls to prove their mettle in table tennis and badminton singles as well as doubles events. In the individuals' event, Iqra Jamal beat Fatima Shah 2 sets to 1 earning valuable points. In the doubles category, 2k9 got the better of 2k10 and won the match 2 sets to 1. 2k9 girls again outclassed all other teams and won the doubles Badminton event as well while Raiha Gardezi was triumphant in girls' singles badminton event. The girls also displayed their agility and athleticism in volleyball where 2k10 played brilliantly and won the event.

Continuing with the net-games, Waleed Malhi beat Usama Zubair to be crowned singles Badminton champion while

2k10 grabbed the doubles' title. Sabeeh Rehman proved his mettle in singles' category of table tennis and won the event while doubles' event was won by 2k11. When it was time to smash it up in volleyball, 2k11 had the cards up their sleeves and grabbed the title of being the champions.

To spice things up, a tug of war competition was also held between the faculty and students at the closing ceremony in which medals were awarded to the winners and the sports fest trophy which was shared by 2k9 and 2k10 on the basis of overall points was also handed over by Principal and Dean NBS.



## Sports Week at Army Medical College

Day one of the Sports week at AMC was marked by "NAAT and QIRAT" competitions. All the six companies of army medical college RAZI, SINA, AYUB, QASIM, FATIMA, and AYESHA competed in the event and it was won by the RAZI coy.

Posters were set up to acknowledge and eradicate the malaise of Tuberculosis. This competition to portray the best handmade awareness manuscripts led campaign was held in collaboration with AURF (Amcolians Undergraduate Research Forum) and Community Medicine Department. One of the most awaited final of the sports week; the Football final between Ayub Coy and Sina Coy was played. Ayub Coy clinched the title, third year in a row. Hashim Ijaz was named the best player for the year.

Parliamentary debates were held the next day. The topic was 'this house believes that right to privacy is more important than freedom of press.' Verily the motion was vetoed by the jury in favor of the proposition. All students did a wonderful job at propagating their own concepts and knowledge with an air of feisty logic. The event ended in victory for Ayesha Coy and Razi



Coy being the worthy runners up. The Best Parliamentary Debater award of the event was clinched by Daniyal Kamal 36th MBBS.

This was followed by athletics events starting with long jumps, high jumps, sprints, and marathons on the cards. In the End Sina coy dominated the events with Razi a close second in the fight. The Best Orator Award went to Omar Naseem from Razi coy.

Under the coveted banner of AMC newsletter team an 'impromptu literary competition' was held in the morning of the fourth day to gauge the literary competence of students. The end was marked by crowning of college colors, coy championships and other competitions that were carried out on Amcolian stage throughout the session 2012-2013. The best athlete for the year 2012-2013 went to Hashim Ijaz 4th year MBBS Ayub Company and the best sportsman award went to Omair Dar, 5th year MBBS Sina Company. The sports week ended with an address of Principal AMC, Maj Gen Salman Ali commending them on their efforts.



## Faculty initiates R&D Project in collaboration with NHA

Associate Professor Dr. Muhammad Irfan, Head of Department of Transportation Engineering at NUST is the Principal investigator of the R&D Project titled: "Improvement of Mix Design Technology for Pakistan" in collaboration with National Highway Authority (NHA). The project is done through the Highway Research & Training Centre (HRTC) for a total cost of Rs. 4.2 million for the duration of 18 Months. This National level research project is focused to evolve a Pavement Design Methodology for the local materials, hot climatic conditions, and heavy axle loads existent in Pakistan, so as to minimize the premature pavement failures in Pakistan.

## THE NUSTIAN-2013

Students and Faculty of all the campuses of NUST are requested to send their essays, poems and caricatures for inclusion in the current issue of the magazine.

It is a bilingual annual issue of the University. Contribute in the language of your choice.

First come, first served.

Phone: +92-51-90851363

e-mail: [studentaffairs@nust.edu.pk](mailto:studentaffairs@nust.edu.pk)

Mail your contributions to the  
DD Student Affairs, Ehsan-ul-Haq, SA Dte,  
NUST, Sector H-12, Islamabad.

## 04 Achievements

### Best University Teacher award

It is an honor for NUST that Associate Professor Dr. Muhammad Irfan, Head of Department of Transportation Engineering, National Institute of Transport (NIT), SCEE has been awarded Best University Teacher Award by Higher Education Commission (HEC) for the year 2011.

Dr. Muhammad Irfan is currently enrolled as faculty member at NUST. He holds MS Civil Engineering and a PhD degree from Purdue University, USA. Dr. Irfan has also qualified Applied Management Principles Program (Mini-MBA) from Krannert School of management, Purdue University, USA. He is the recipient of 'Best Dissertation in Civil Engineering Award' and 'Outstanding Research Award in Highway Infrastructure Engineering' from Purdue University, USA. Dr. Irfan has more than 19 years of work experience in various disciplines of Civil Engineering with emphasis on highway infrastructure engineering and management systems, and transportation systems evaluation / decision making.

Recently Dr. Irfan has been appointed the Principal Investigator of the R&D Project titled: "Improvement of Mix Design Technology for Pakistan" in collaboration with National Highway Authority (NHA) through Highway Research & Training Centre (HRTC) by National Highway Authority (NHA) for a total cost of Rs. 4.2 million for the duration of 18 Months. This National level research project is focused to evolve a Pavement Design Methodology for the local materials, hot climatic conditions, and heavy axle loads in Pakistan, so as to minimize the premature pavement failures.



### Research papers published by NUST Faculty at MCE

A research paper, titled "Multidimensional Benefit–Cost Evaluation of Asphaltic Concrete Overlays of Rigid Pavements" authored by Dr. Muhammad Bilal Khurshid of Military College of Engineering (MCE), Dr. Muhammad Irfan and Dr. Anwaar Ahmed of National Institute of Transportation (NIT), SCEE has been published in Feb 2013 in one of the pinnacle journals in the area of Infrastructure Engineering with 2011 impact factor 0.966, i.e., Journal of Structure and Infrastructure Engineering: Maintenance, Management, Life-Cycle Design and Performance. Taylor and Francis, UK.

Another research paper, titled 'Evaluation of Railroad Subgrade – A Parametric Study', authored by Dr. Sarfraz Ahmed of Military College of Engineering (MCE) and Dr. Muhammad Bilal Khurshid, Dr. Manzoor Hussain and Dr. Abdul Qudoos Khan, has been presented at 13th National Conference on Geotechnical Engineering on March 14-15, 2013 at Lahore, Pakistan.

### Dr. Manzoor Hussain receives Thomas A. Middle brooks Award

On March 5, Dr. Manzoor Hussain of MCE won American Society of Civil Engineers (ASCE) 'Thomas A. Middle brooks Award' for his paper 'Shear Strength in Pre existing Landslides' published in the July 2010 issue of ASCE Journal of Geotechnical and Geo-environmental Engineering. The 'Thomas A. Middle Brooks Award' was established by the Society in 1955 and is given to the authors of a paper; published by the Society, which is judged worthy of special commendation for its merit as a contribution to geotechnical engineering. This is one of the best awards presented on outstanding publication and research in geotechnical engineering in a year and so far it has been presented to authors of 58 papers since its establishment. This is a unique honor for a scholar to be the recipient of this award and Dr. Manzoor Hussain is the first honoured Pakistani who has won this award. The award was presented during the ASCE (Geotechnical Institute) annual meeting 'Geo-Congress 2013' held from 3 to 6 at San Diego, California, USA. The award was presented in a special 'Hero and Awards Luncheon' arranged on March 5 during the conference. The officer has also played a major role in starting of PG programs at MCE and is contributing to the academics both at UG and PG level.



## Research paper published by MCS faculty

A research paper titled "A framework for preservation of cloud users' data privacy using dynamic reconstruction of metadata" by Adeela Waqar has been published in the Journal of Network and Computer Applications, an ISI indexed journal having impact factor 1.065. Adeela Waqar is a faculty member at the Department of Information Security, Military College of Signals, NUST.



## NUST faculty authors book

A book titled 'A Framework for semantic descriptions of e-Science Resources' has been authored by Dr. Hammad Afzal, Faculty at NUST. This book presents a literature-based framework for semantic description of e-Science resources. The framework includes description of text-mining based methodologies to automatically learn domain annotation tag-sets; identify descriptive sentences and extract semi-formal functional descriptions of e-Science resources from the literature and finally link similar resources into semantic networks to enhance the resource discovery process.

Prior to joining NUST, he completed his doctoral studies from School of Computer Science, University of Manchester, UK in Dec, 2009 under supervision of Dr. Goran Nenadic in Text Mining Group. Topic of his PhD dissertation was 'Literature based framework for semantic descriptions of bioinformatics e-Services'.



## CAMP faculty visits Canada

Dr. Ayesha Khalique and Dr. Mubashir Jamil, faculty at NUST CAMP reached the end of one academic year abroad. Dr. Ayesha Khalique left for Institute for Quantum Information Science IQIS at University of Calgary, Canada, in January 2012 to serve as a visiting professor. University of Calgary is among the top seven universities of Canada. IQIS is a multidisciplinary institute that has catered to several renowned researchers working on a wide range of theoretical and experimental topics concerning quantum information and technology. During her stay, Dr. Ayesha Khalique worked on various aspects of long distance quantum communication. This work forms the basis of further research collaboration between her and the IQIS. She also attended three international conferences that were held at Calgary during her stay.

Dr. Mubashir Jamil joined the department of Physics at Eurasian National University, Astana, Kazakhstan in February 2012. The university is ranked amongst the top 400 universities of the world. Dr. Mubashir Jamil's research on cosmology and theories of modified gravity led to the publication of 20 of his papers as well as a book compiling some of his publications. He established links with many researchers from Iran, Japan and Kazakhstan. He also advised MPhil and PhD students, and participated in the 1st Eurasian International conference on Gravity, Cosmology and Astrophysics.





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