

MONTHLY
NUSTNEWS

Volume IV / Issue V



First batch of Community Service course completed

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Achievers...

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“Don’t judge each day by the
harvest you reap but by the seeds
that you plant.”

Robert Louis Stevenson

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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

‘Meet the Scientist’ series continues: Dr Adil Najam invited



Vice Chancellor of Lahore University of Management Sciences, Dr Adil Najam was invited by NUST Science Society as the guest speaker in another one of “Meet the Scientist” series organized at NUST. Pro-Rector NUST, Engr Muhammad Shahid graced the ceremony as the chief guest. The students were enthralled by the guest speaker’s profile with achievements as venerated as

2007 Nobel Peace Prize winner.

Dr Najam took the audience through his memory lane revealing 7 lessons of life, the essence of which was how to excel in one’s field while ensuring self satisfaction, originality and cognition. To sum up his line in a few words he said, “When I was four years old, my parents dropped me off at school. They haven’t yet returned to pick me up.” What followed was a deeply insightful and rejuvenating narration of the life story of a struggling person, as the speaker introduced his humble roots, diverse passions, amazing achievements and offered pragmatic advice. He then handled student questions further motivating them to find success in failure and content in passion. ‘We all eventually come back down’ he concluded quoting his colleague, ‘It’s called gravity!’

Pro Rector NUST, Engr Shahid presented a souvenir to Dr Adil on behalf of NUST. A sketch of Dr Adil made by an executive member of NSS was also presented to him. The event was coordinated by NSS executive member Jahandad Nasir and his team.



Prize distribution ceremony for high achievers in co-curricular activities



A prize distribution ceremony solely aiming at acknowledging distinctive high achievers in co-curricular activities was held at the Seminar Hall of the NUST Main Office on May 14. Rector NUST Engr Muhammad Asghar was the chief guest. The ceremony was attended by Principals of NUST constituents and Directors from HQ NUST. Nustians coming from College of E&ME Rawalpindi, College of Aeronautical Engineering Risalpur, Pakistan Navy Engineering College, Karachi and the constituent institutions of the NUST H-12 Campus having proved their mettle at various prestigious national and international platforms were honoured in a befitting Prize Distribution function.

NUST has a tradition of acknowledging distinctive performers of national and international events in a befitting manner. The University has conducted three prestigious events in a succession since November 2012.

Prizes and Certificates of Merit were distributed among high achievers in Vision Park held at COMSATS Wah, Lipton Talent Hunt Unilever Pakistan Karachi, All Pakistan Optics Olympiad, IET Present around the World held at UET, Lahore, Line Tracking

NEO held at GIKI, Prime Minister's Entrepreneurial Challenge "Discover", EME Inertia Rawalpindi, Air Ex Innovation Challenge, Student Project and Poster Competition, Future Flight Design, NUST Olympiad 2013, Power Generation Conference & University Industry Partnership Exhibition, Inspire, International Mechanical Engineering Convention and Asia Pacific ICT Awards.

Later speaking at the occasion, Rector NUST Engr Muhammad Asghar conveyed his earnest felicitations to the talented Nustians for earning good name for NUST. He acknowledged the commendable performance of the distinctive performers at national and international platforms. Engr Muhammad Asghar further said that every assistance would be extended to facilitate those students who wanted to participate at international platforms to add to the glory of their University and homeland. He also appreciated the efforts of the entire administration of the NUST Olympiad for their significant contributions in making the mega event a great success.

SCME holds seminar on strengthening Industry-academia linkages

A seminar on 'Industry-academia Linkages' was organised by School of Chemical and Materials Engineering (SCME), NUST on May 16. The speakers included Dr Wahaj-u-Saraj, CEO and Co-founder of Nayatel; Dr Shazia Harris from ERRa; Mr Kazi Zulqider Siddiqui, Founder and CEO of the Tech Corp Group of Companies / Emerging Energy Systems and the executives SCME Alumni Association. Mr Javaid Iqbal Minhas, Former DG NESCOM was the chief guest on the occasion.

The seminar served as a platform to discuss the creation of new linkages and liaison between the academia of NUST and industries. The speakers focused on the precedence of industrial knowledge and problem solving over rote learning. Dr Shazia highlighted the role of media in relevance to promoting linkages, suggesting that final year projects of the students should be published. A major point discussed in the seminar was the role of schools in aiding ongoing research in industries, stressing that the duration of research was a major consideration for industries and that the academic institutions should be strict with deadlines to form and maintain linkages. The possibility of new avenues for research and innovation were also discussed. In the closing session, Dr Asif Raza, Pro-Rector A&R NUST presented souvenirs to the speakers.

Design, Build and Energize: International competition staged at EME College

Despite the fact that Pakistan is an energy starved country, 31% of the 190,000 bpd of our oil import is consumed by the transport sector. In order to integrate and bring to one platform the research expertise of the other universities in the field of energy-efficient cars, the College of Electrical and Mechanical Engineering recently staged a competition at the college campus called "Design, Build & Energize." The competition was held on 18th and 19th May, 2013, with participation by energy-efficient cars designed and built by students from different universities of Pakistan.

The two day event was scheduled to enable the teams to have sufficient time to improve on their models for the Shell Eco Marathon to be held in June 2013. DBER was organized with the objectives of exchange of ideas, research and innovation, exhibition at the national level and confidence building. The competition had two types of cars namely Urban and Prototype.

From all over Pakistan 12 teams participated in the event. Shell Pakistan had pre-set categories according to which various prizes were distributed. Building around HSSC award was won by N.W.F.P. UET team "Seven Comrades". Mileage Prize was award-



ed to NUST EME team "NUSTAG". It was the only car that completed the designated mileage. Conservation Award (Reducing our ecological footprint) was given to GIK Institute of Engineering Sciences and Technology team "Hammar Head Arc". Innovation Award was given to N.W.F.P. UET team "OctaMachina". Novelty Prize (Out of the box) was awarded to two teams, Air University "Airians" and HITEC "Iyaad Reborn".

The event was a resounding success. At the end, the commandant of EME College, Major General Obaid Bin Zakaria, took the chief guest IGT&E for tour of the campus and showed him different projects made by students of the college.

Beaconhouse School System delegation visits NUST

A 60-member delegation from Beaconhouse School, Rawalpindi headed by Ms Sadia Taimur – Senior Mistress visited NUST on 2nd May, 2013. The delegation comprised five teachers and 55 students of 7th class. Briefing was given to the delegation about establishment, institutions, programs, research initiatives, achievements and future plans of NUST followed by a detailed Q & A session. The students asked well-structured questions which led to a better understanding of various aspects of university working, quality



of education and output, availability of financial support for the students, international competitiveness of NUST curricula etc. The delegation visited different labs at School of Electrical Engineering and Computer Science (SEECs) and super computer housed in Research Centre for Modeling and Simulation (RCMS). The students appreciated NUST's Infrastructure and facilities provided for its faculty and students to ensure quality teaching, learning and research.

Disaster Risk Management workshop at MCE



Military College of Engineering (MCE) organized a one day National Workshop on "Disaster Risk Management" on 4th May 2013 at Risalpur. Researchers, scholars, practitioners, students and other citizens from different walks of life participated in the workshop with a total participation at the workshop exceeding 250, which was very encouraging especially for remotely located place like Risalpur. Major General Anwar Ul Haq Chaudhry, Commandant Military College Of Engineering opened the session by delivering an opening address. Major General Dr Zahir Shah, Survey General of Pakistan graced the occasion as a Chief Guest in the Opening Session. Major General Muhammad Rafiq Sabir HI (M), Director General Engineers was the Chief Guest in the Closing Session.

A total of ten speakers gave presentations on different subjects. The speakers included Mr Idrees Mahsud, Member DRR, NDMA, Brig Pervez Hayat Niazi (Retd), DG Planning Wing, ERRA, Mr Muhammad Khalid, Director (Admin & HR) PDMA-PaRRSA, Dr Syed Ainuddin, UoB Quetta, Sqn Ldr Dr Najam Akhtar, Classified Specialist PAF Hospital Islamabad, Col Dr Ejaz Hussain, SCEE

NUST, Dr Khan Shahzada, Dept of Civil Engg UET Peshawar, Dr Abdul Qadir Bhatti SCEE, NUST, Engr Shah Nasir Khan PDMA-PaRRSA KPK and Dr Abdul Waheed, SCEE NUST.

The speakers talked about the role of different organizations in reconstruction and rehabilitation of the affected areas of disasters, provision of psychological support, Trust Building in Developing the Mitigation Strategies in Disaster Prone Areas, Improvement of Masonry Structures against Seismic Force, Dealing with and Assessing Risks of Potential Disasters Using Space-Based Information and Probabilistic Seismic Hazard Analysis of Pakistan.

Colonel Dr Muhammad Naseem Baig, Chief Instructor and Dean of the College summed up the workshop during closing session. Chief Guest presented the souvenirs to the organizers and speakers and certificates to the participants. The event was sponsored by HEC, PEC, NDMA, ERRA, Engineers-in-Chief Pakistan Army, Frontier Works Organization (FWO) and National Logistic Cell (NLC).

Effective Business Communication workshop conducted by PDC

A two-day workshop on 'Effective Business Communication' was organized by Professional Development Center (PDC), NILE on May 22. Institutes like Lahore American School, ICAP, POF, NDC, FWO, BHP Petroleum, GHQ, NESCOM, Fauji Fertilizer Bin Qasim Ltd. attended the workshop. The facilitator on the occasion was Mr Jamal Arif, an electrical engineer with an MBA from University of Oregon, USA. He has conducted courses and trainings in areas of sales, marketing, TQM and Business Intelligence for leading UAE, Asian and American companies.

Mr Jamal highlighted that the current business environment necessitates an interest in improving communication skills of both top management and subordinates to effectively and instantly get their message across. He discussed a 'checklist for Success' by holding discussions on various topics including communication styles, pitfalls of writing and successful business writing. Through examples of crisis communication, he stressed that external and internal communication must be coherent. He advised to avoid the word 'NOT' since it indicated helplessness. He then offered suggestions addressing complaints in a better



way. Multiple pointers were given for planning and conducting meetings. Mr Arif suggested techniques inviting the right number of people and having a clear agenda beforehand. He further termed, critically observing communication patterns in meetings as very essential.

Mr Jamal, in his closing address lauded the commendable learning environment created at NUST for all institutions to interact and learn from each other. In the closing ceremony, Mr M Iqbal (POF) and Ms Maha Hasan (MCO, NUST) were announced as the best presenters. Gifts and certificates were distributed by the resource person and chief guest, Director Research & Development NUST, Engr Salman Absar.

NUST BioReach organizes a seminar in the series of 'Global Voices'

The NUST BioReach Society organized another successful seminar in the Global Voices series 'How the Youth Can Make a Difference' on May 3 at the ASAB auditorium. The sole purpose of the seminar was to trigger the youth's interest in the critical issues surrounding the Polio dilemma in Pakistan. NUST BioReach Society, invited two of the campaign's most inspirational leaders: Michael William Sheldrick; Global Poverty Project – Policy & Advocacy Manager and Akram Azimi; Young Australian of the Year 2013.

With maximum participation of students from all schools on-campus, the speakers shared stories of their journey to the tremendous progress in the field of Polio eradication. Mr Akram captivated the audience with his narrative of the journey of a young Afghan boy to the Young Australian of the Year. Mr William stressed on the importance of a Polio free world and questioned the audience's conscience when he wondered aloud: "99% of the world has been made Polio-free, why stop now?" The speakers appreciated the role of NUST BioReach Society in making the dream of a Polio-free Pakistan come true. The speeches were followed by an interactive question and answer session allowing the students to share their thoughts and concerns about Polio and its eradication. Director Student Affairs, Mr Mahmud Bashir Bajwa was the Guest of Honour, who later presented tokens of appreciation to the guest speakers.



PDC conducts a two-day workshop on Managing Effective Sales Force



Professional Development Center (PDC), a constituent of NUST Institute of Leadership in Education (NILE) organized a workshop on 'Managing an Effective Sales Force' from May 21 to 22. The resource person for this workshop was Mr Jamal Arif, with a vast experience of 35 years in marketing/sales at Silicon Valley, USA. In the opening ceremony, GM PDC, Mr Imtiaz Ahmed asserted that selling is an art. In order to polish the participants' managerial and problem solving capabilities, Mr Jamal Arif adopted Harvard case-method pedagogy. The aim of the workshop was to develop the participants' knowledge of sales management and to inculcate a deeper understanding of tasks and

roles of a sales manager. Through intensive class/group activities focus was placed on effective presentation and communication skills used in selling of products and services. Interaction was encouraged by Mr Arif as he said, "I'd like you all to bring up your companies' problems because trivial issues allow the world to unfold bigger issues". He divided 'management' into functional components to highlight root causes of management issues. Director P&D, Engr M. Ashfaq Sheikh, who was the chief guest on the closing ceremony, distributed certificates among the attendees.

Shell Eco Marathon Asia 2013 organized by EME College

Top universities from Pakistan unveiled their hand-built fuel efficient vehicles for the Shell Eco-marathon Asia at a launch ceremony held at the College of Electrical and Mechanical Engineering, NUST on May 21. This event has put Pakistani teams on tracks for the competition at the Sepang F-1 track in Kuala Lumpur in July 2013. There, they will compete with over 130 teams from 16 countries to see whose vehicle can go the farthest on one liter of fuel.

Teams from NUST, UET-Peshawar, UET-Jamshoro, NED, Air University, GIK, PNEC and FAST are registered to compete in the event at Malaysia. Some of these teams were present at the NUST launch event to showcase a range of new and improved vehicles, running on a variety of fuels. A panel of judges from academic, media, industry and government sectors inspected the vehicles at the launch event. Awards were given for 'Safety' to UET-Peshawar for their Prototype vehicle; for the 'best mileage' to NUST for their Urban Concept vehicle; GIK's prototype vehicle won an award for reducing their ecological footprint the most, while the 'innovation' prize was awarded to UET-

Peshawar's Urban Concept vehicle. Two 'novelty' awards were given to AIR University and HITEC for their out-of-the-box designs.

Major General Obaid Bin Zakria, Commandant NUST College of Electrical and Mechanical Engineering added that the event was a chance for Pakistani teams to test their vehicles and ensure they were well-prepared for tough competition at the Shell Eco-marathon in Malaysia this year. He further said that the students had already displayed a great deal of creativity in transforming innovative ideas into reality, and hoped they would continue displaying the same enthusiasm as they represent Pakistan and their universities.



Doctor stresses on biocompatible materials for use in orthopaedic implants

A seminar was held in School of Chemical and Materials Engineering (SCME), NUST, on 'Enhanced Biocompatibility of Cardiovascular and Orthopaedic Implant Materials' on May 22. The guest speaker was Dr Waseem Haider, Assistant Professor at University of Texas Pan-America. The seminar was attended by students and faculty who were able to relate their knowledge with the advancement in the field of medicine.

Dr Waseem discussed toxicity of Nickel and the threats it poses as a biomaterial in manufacturing of peripheral and cardiovascular stents. He proposed methods to remove nickel from surface of materials which could otherwise cause Nickel ion leaching with cytotoxic effects on cells. Ordinary Stents, he discussed, also had the potential to cause overgrowths due to osteoblasts and endothelial cells' multiplication. Therefore, his research aimed at making these bio-materials corrosion resistant, biocompatible and non-toxic. He laid stress on careful dimensioning of stents and also their thermal properties, and proposed the use of shape-memory alloys for stents in cardiovascular diseases. Electropolishing (EP) and Magneto-electropolishing (MEP) were mentioned as recently explored techniques to enhance surface quality and deburr surface defects.

“Don't be satisfied with stories, how things have gone with others. Unfold your own myth.”

Maulana Jalal-ud-Din Rumi

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 (Urdu, English)

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03 Updates from Schools

NBS Films Club Inaugurated

The inauguration of the NBS Films club was held at NUST Business School on May 21. NBS Films club is the first film club at NUST initiated by the students of mass communication 2k10. The president of the Club, Hamza Baig and vice president, Daniyal Ahmad were the students who made NUST proud in LUMS Olympiad by winning the speed filming competition. The club aims to support students who need resources to produce movies and would be taking up work on project.

Currently, the club has musicians, video makers, photographers and script writers under its feathers and would be hiring more talented Nustians soon. The chief guest in the opening ceremony was Ayesha Asif Khan who is currently the creative Director at M COM and has been a senior faculty and Consultant at South Asian Academy of Motion Picture Arts and Television and was the Post Graduate Diploma In charge Film & Video at Indus Valley School of Art and Architecture. HoD mass communication; Dr Masrur Alam Khan was also present at the occasion. "The innocent", a short movie based on a psychological thriller was also screened at the ceremony which was much appreciated and enjoyed by the audience. The movie brought laurels to NUST in LUMS Olympiad.

The chief guest appreciated the work done by the students and said that the club was a great initiative. Later the club was officially launched by cutting a cake and unveiling the logo.



First batch of Community Service course completed

NUST Community Service Club offered Community Service course to the final year UG and PG students at NUST. This course was an attempt to ignite the spirit of humanity, patriotism and community service in the hearts of the students, so that they not only become good professionals but also good human beings.

In order to successfully complete the course, each student had to attend 10 seminars and 30 hours of fieldwork. The seminars and field activities were organized by the club, and were open for the course members in particular, and other students in general. In the first batch, a total of 33 students completed the course. These students will be awarded 2 credit hours in their degree; the course code allotted being CSW-401.

A ceremony was held on May 29 to officially mark the end of the first batch of the course. This was attended by Dr Asif Raza, Pro Rector Academics NUST, who distributed completion certificates among the 33 students; and participation certificates among the final year students, who completed part of the course requirements. He congratulated the entire team of NUST Community Service Club for successfully conducting the course. Director Student Affairs and Principal SMME were also present at the ceremony.



NBRS spread public health awareness in SoS children

A series of lectures on the principles of public health were initiated by the NUST BioReach Society. The lectures held under the series "Teach with BioReach", were facilitated by members of BioReach Society. They termed it significant to educate the SOS children on improving their health and consequently their life style. The Society introduced public health as an integral part of their day-to-day work so that they understand fully their potential for improving their health. Every Saturday morning, the executives of NBR visited SOS. The lecture plan included a customized book, written and compiled by students of Bioreach that was used as the medium of instruction. What followed was a captivating exchange of knowledge between the instructors and the students who, to the delight of the organizers, made the most of the opportunity. The office bearers of the Society expressed their intention to expand this programme and provide coverage to more schools and colleges in the rural and remote areas. The knowledge gained will ensure that the underprivileged have understanding of health and its determinants, which permit them to make healthier choices for themselves and their families.



NSS Awards Night 2013

NUST Science Society (NSS) held its Awards Night on May 25 at SCME Seminar Hall followed by a formal dinner in NESCOM Club. NSS is one of the most active student societies in NUST and its executive members were awarded for their persistent endeavors in holding remarkable events last year. The winners were Armaghan Ahmed for 'Debutant of the Year', Mehroz Ejaz for 'Creative Mind of the Year', Sana Javed for 'Best Supporting Executive', Saim Bin Farooq for 'Best Supporting Manager', Mudassir Sultan for 'Best Manager', Kamran Maken for 'Outstanding Performer Of The Year', Yousuf Mehmood for 'Penmanship Award', Haleema Bhatti for 'Graduating Member Of The Year', Memoona Zaheer as the 'Best Supporting Director', Syeda Qud-sia for 'Best Director' and Anum Yousuf Khan and Taibah Jaffery as the 'Event Coordinators of the Year'.

Memories of the past year were revived through videos along with entertaining performances by some of the executives. President, Sana Ansari, concluded the event with her farewell speech, thanking everyone for their amazing performance and continued determination. The group then proceeded to NESCOM club where they were joined by their advisor Mr Tippu Iqbal.



NCSC and Edvolution join hands to educate orphans

NUST Community Service Club, in association with 'Edvolution' NUST Chapter arranged a two-day workshop for about a hundred orphans (Pre Nursery to Second Grade) at 'Sky Sweet Homes', a boys' orphanage in F-11, Islamabad run in collaboration with the Bait-ul-maal.

In the workshop, the orphans were taught creativity, general knowledge, and computer basics. The children made bunnings from colorful foaming sheets and were taught how to write their names with them. Origami, coloring and drawing was also part of their creativity hours. In computing, the kids were familiarized with MS Paint and MS Word. The teachers for the General Knowledge lecture enlightened the kids with Islamic knowledge, pertaining to stories of Islamic heroes and the general teachings of The Holy Qur'an. Other subject matters such as the basics of science including the formation of the universe were shared with the kids. Volunteers came up with innovative techniques to teach the kids, using videos and cartoons to gain the children's interest. It was an overwhelming experience to see such enthusiasm and potential in children at such an early age. Schedules were carefully planned for different classes by the organizing committee, an activity period where kids played football with the volunteers and also watched an animated movie. The kids developed strong bond with their teachers. This workshop was unique experience for the volunteers and students alike.

CES-NUST faculty attends International conference at Lebanon

The NI Instruments (USA)-sponsored Arab Day International Conference was held on May 16 in Beirut, Lebanon. The themes of the conference were Academia-Industry partnerships, Entrepreneurship and innovation, and application of instrumentation across various technology platforms. Distinguished speakers from Italy, Turkey, UAE, Saudi Arabia, India, USA and Pakistan participated. A separate session on Renewable Energy was conducted in the form of a Panel Discussion in which Principal CES-NUST Dr Mohammad Bilal Khan participated as a panelist, along with other distinguished experts from US, Lebanon, India, UAE and Saudi Arabia. The NUST flag was kept high in this forum. Prior to the conference NI instruments gave Dr Bilal and Industry Professor Dr Qamar Malik, an exclusive briefing on the line of instruments they carry for applications in the Energy Sector. In the light of feedback received from the participants of the Energy Manager Training Program conducted by CES-NUST in KPK recently, NI instruments were fully informed about the important role instruments can play in the conservation and manage-



ment of Energy in industries. NI instruments agreed to prepare and deliver a tutorial segment in any further similar programs at NUST. On this occasion NI instruments shared a branded complimentary copy of their spearhead software LABVIEW, which is now available to CES faculty for their projects. On a final note, the Industry delegate from Saudi Arabia informed the panel that his company was in the process of installing Solar Energy to the tune of GW and there will be a demand for almost 85000 (Eighty Five Thousand) Energy Graduates in Saudi Arabia over the next five years in various energy sectors!

CES faculty attends ORIC Symposium at Riphah



The Office of Research, Innovation and Commercialization (ORIC) at the Riphah International University (RIU) Islamabad held a one-day Symposium on 'Academia-Industry Linkage and How It Can Best Promote Entrepreneurship through Innovation by the Pakistani Youth'. Dr Mukhtar Ahmad, Executive Director HEC presided over the Inaugural session.

Speaking at the closing session as the Guest of Honor, Principal CES Dr Mohammad Bilal Khan emphasized that education, community welfare, housing and relief must be connected to the financial engine, which is driven by R&D, Business, Industry, Commerce and Consultancy.

This is possible through the creation of a resource pool consisting of novel ideas and financial seed capital; citing examples from NUST-based experiments where several prototypes were converted into commercial enterprises, he stressed the need to encourage young entrepreneurs to enter the market place and test their ideas in the field. This should result in the output being converted into having a positive impact on the economy. Dr Anis Ahmad, Vice Chancellor of the University, presented a shield to the speaker as a token of appreciation and solidarity. The event was well attended by commercial institutions, faculty members and students of RIU.

NCSC joins hands with TABA Foundation to help earthquake victims

NUST Community Service Club (NCSC) joined a national earthquake relief effort with TABA Foundation Youth Affairs Team in a bid to help the victims of the natural disaster that struck a startling 7.8 on the Richter scale earlier in mid-April. The earthquake affected around 12,000 people with 34 reported casualties and 150 others injured. TABA Foundation, an umbrella organization which links together welfare and non-profit organizations working in the country, approached NUST Community Service Club to help raise funds to handover to other organizations such as Human Relief UK and Customs Healthcare society which are working on site for the rehabilitation of those affected. Three events were held in order to generate funds; including donation collection, "Wreck It Ralph Movie Night" and FIFA '13 Tournament in collaboration with Gamers' Coliseum.

NSS- SCME encourages shift towards contemporary software

NUST Science Society organized a 3-day training workshop for EndNote and Statistical Package for Social Sciences (SPSS) from May 17 to 19 at SCME Computer Lab. The resource person on the occasion was Mr Syed Mohsin Raza, a certified trainer of the EndNote software who has conducted and attended various workshops in collaboration with National Academy of Young Scientists (NAYS), to which he is currently associated, and University of Health Sciences (UHS), Lahore.

Mr Mohsin unveiled the session by asking the participants if they had ever been involved in projects, authored research papers or journals, then questioned simply, "What is the dilemma?" He pointed out the significance of EndNote by highlighting how hectic the task of finding, listing, authenticating and then manually typing over 400 references can be. EndNote, he said, was software that organized references into a library that has a capacity for thousands of entries.

The following two days were dedicated to training of SPSS where the first part was a crash course in statistics to give the participants some insight into the concepts of basic data analysis. He clarified that SPSS was very user friendly with a graphic interface. It was an interactive session where the participants followed the steps on their computers and asked questions that were answered on the spot by the trainer. He mentioned various online resources and other programmes that could be used in conjunction to maximize the software's utility.



Importance of Women's role in elections highlighted

"Center for Communication Programs – Pakistan, (CCP-P) is a nongovernmental and non-profit organization which was invited at NUST. They spoke about The Importance of Women Voting in the Elections. It was explained how the Center for Communication Programs Pakistan (CCP-P) was currently working on increasing participation of women in the election 2013 through social mobilization activities and by harnessing existing networks for reaching out to the masses. CCP-P is partnered with Rotary International to come up with the venture, to initiate the change and also to raise awareness using the platform of NCSC.

The main speaker was Ehtesham Abbas; Chief Strategy Officer CCP. Later, a theatre show on feudal hold on the voting system, corruption, women not being allowed to vote and international

NUST and Mobilink enable students to provide solutions for everyday problems



NUST School of Electrical Engineering and Computer Science (SEECs) took the initiative to launch a competition named, 'Finding Innovative and Creative Solutions' (FICS). FICS was designed and executed as a multi stage competition by its core design team comprising Dr Arshad Ali, Dr Sarah Shafiq Khan, Dr Kashif Sharif and Mr Irteza Ubaid.

FICS is an intra SEECs competition that aims to encourage SEECs students to think innovatively, and get actively involved in social problem identification around them and developing solutions. Through FICS, NUST SEECs wants to instill a spirit of a commitment to learn and to give back to our society using our ideas and knowledge, among our students.

FICS final stage took place on May 17, where about 14 short listed ideas competed for the grand prizes of Rs. 50,000, Rs. 30,000 and Rs. 15,000 in the form of a final product. They were evaluated by the industry experts, who were looking for promising ideas with development and commercialization prospects. The judges' pool comprises of representatives from Mobilink, Moftak Solutions, RWR, NADRA, Webpreneur Academy, and E-Mumba Technologies. The first prize was won by the project "Non-Invasive Glucometer". The second prize was won by the project "Pervasive Anticoagulation Service for Cardiac Health", while the third prize was won by the project titled "Clay computing: inexpensive computing solutions". Mr Moeid Javeed, Director Marketing Mobilink expressed his desire to collaborate with NUST in grooming future IT experts.



take on Pakistan's current political scenario was staged. The play was well received and highlighted the main issues addressing the political prowess of landlords and the elite faction currently presiding in Pakistan.

The performance was followed by an informative question and answer session. There was then announcement of an essay writing competition on the topic: "The importance of casting your vote in the elections 2013". The winners were to receive various gifts including iPad minis. The whole event was held in the SCEE seminar hall.

RCCI Business Plan Competition

Ali Akber, Waleed Sabir and Junaid Hassan of BE10 Institute of Geographic Information Systems (IGIS), SCEE participated in Rawalpindi Chamber of Commerce Business Competition on 22nd May, 2013 at Pearl Continental Rawalpindi. They proposed an idea "to map sale/purchase data on a map according to the location that data refers to, so that different trends can be visualized". The idea was highly appreciated by the jury and they offered IGIS students to work on it. Moreover, the students were found eager to implement their idea into practical business. Students from the six leading universities including National University of Modern Languages, Fatima Jinnah Women University, SZBIST, COMSATS and APCOMS also participated in the competition.



MCS Literary Society Investiture Ceremony held

MCS recently selected office bearers of its first literary society comprising seven members. The appointments include President Literary Society (PLS) GC Saad Ahmed (TE-47), VPLS (English) NC Muhammad Saad (TE-47), VPLS (Urdu) NC Mamoonah Tahira (TE-47), Gen Secy NC Umar Khan (TE-48), Secy Fin GC Usama Bin Sana, Secy Coord NC Hassan Mus-sana (SE-17) and Joint Secy NC Ahmed Ayub (TE-49). The Ceremony was held in Department of Electrical Engineering and was attended by Dean MCS, CI (E), Faculty Members and undergraduate students. Mr Mahmud Bashir Bajwa, Director Students Affairs (DSA), NUST was the chief guest. DSA conducted an introductory lecture/presentation about SA



Directorate with special focus on NUST Clubs & Societies. Afterwards investiture ceremony was held by office bearers of MCS Literary Society. The faculty member associated with this society is Dr Muhammad Hanif, HoD (H&BS). At the end of the ceremony Dean MCS Dr Ashraf Masood gave away the College shield to chief guest on behalf of College Commandant Engineer Ali Farhan and entire MCS faculty.

NCSC volunteers to renovate Dar-ul-Aafiat

NUST Community Service Club in association with Senior Citizen Rights, held yet another renovation project, this time for Dar-ul-Aafiat. On Friday, 24th May, students left for Aafiat under the supervision of Dr Irtiza, faculty sponsor of NCSC. Upon reaching, the students were divided into distinctive groups for several activities. While group one cleaned the kitchen and rooms, the other visited the elders residing in Dar-ul-Aafiat. When both the groups were done with their respective tasks, their duties were swapped. The elders were served fruits that too were cut and prepared by the students who thoroughly enjoyed the activities and were found fascinated. Likewise, the elders felt elated in the convivial company of the students. The project proved to be a blissful experience for both students and elders.



World Donors Day celebrated

World Blood Donors Day is celebrated across the globe on June 14 to appreciate and encourage the voluntary act of blood donation. In order to celebrate the upcoming WBBD 2013, NUST Community Service Club made a 'Human Blood Drop', which was enthusiastically attended by a number of students and faculty staff. The participants were motivated to take part in the noble cause of blood donation; and to celebrate the gift of life. In a country like Pakistan, societal factors prevent general public from participating in it; creating shortage of blood in the country. The objective of holding this event was to eliminate these concerns of people.



SEECs Open House: Where industry meets future leaders

Friday 24th May marked the day when the very best of this prestigious institute showcased their engineering talents which not only captivated the visitors but also cemented SEECs' place in the list of the top engineering universities in Pakistan and the world. The knowledge that the students acquired over their four years long odyssey took on the form of innovative projects that left everyone in awe. The people from various industries gave some extremely valuable feedback at the end, some highlighting the steps that can be taken to commercialize various projects while others encouraging the students to write research papers on their projects and pursue higher studies. Many companies were so impressed with the commendable work of the students that they offered them jobs right away and conducted on-the-spot interviews. The best projects included the Hybrid car, the Cricket Training System, the Under-water Surveillance Robot, the Glucometer to measure glucose level in the blood, and the Smart Meters among many others.



Open House Military College of Signals, Rawalpindi

Open House was organized by MCS, a constituent college of NUST on May 15 in the college campus. Graduating students grabbed the opportunity to display their final year's projects in the field of telecommunication and software engineering. More than 300 attendees from industry, business and academia were present on the occasion. The mega event established a liaison between institution and industry to find opportunities for future graduates in competitive market.

The chief guest, Secretary Defense Production, Lt Gen Shahid Iqbal, HI(M) (Retd), Director General Special Communication Organization and Col Commandant Corps of Signals Maj General Khalid Rao Lt Gen Muhammad Asghar, HI (M), (Retd) Rector NUST, Maj Gen Khalid Asghar, HI (M) offg IG C & IT, Maj Gen Sohail Abbas Zaidi DG (T), ISI, Maj Gen Amir Azeem Bajwa DG C4I HRD, Maj Gen Obaid Bin Zakria HI (M) Comdt College of E & ME and Maj Gen Shahzada Alam Malik, HI (M), (Retd) Communicator's Globe and other dignitaries were received by the college Commandant Brig Ali Farhan. Later the chief Guest while

informally expressing his ideas said, "Engineering plays a pivotal role in the progress of a nation. Such events reveal that there is no dearth of talent in our country. Our youth is translating their inquisitive vision into useful innovation and contributing in provision of solutions to society at large". He also appreciated the efforts of MCS faculty in organizing the event.



Participation in International Competition on Future Flight Design, Turkey



A team NUSTAG comprising Assistant Prof. M. Saifullah Khalid, NS Ahmed Tauqeer, NS Haseeb Chaudhry, NS Nouman Khalid, NS Kashif Ali, NS Nouman Ali and NS Muzammil Khalil from Department of Mechanical Engineering, NUST College of Electrical & Mechanical Engineering represented NUST in International Competition on Future Flight Design, held at Hezarfen Airfield, Istanbul, Turkey on May 10 to 12. The competition was based upon report writing and three missions. NUSTAG Team stood 2nd in report writing by scoring 85.3 marks out of 100. They claimed 5th position in the overall competition competing with 23 teams from Turkey, Romania and other European countries. The project was sponsored by NUST Main Office by providing a grant of PKR 0.6 Million. Despite having a lower budget as compared to that of other international competitors, team NUSTAG prepared two working models of participating airplanes and passed technical inspection tests successfully. Technical inspection included structural strength, proper location for center of gravity, fail-safe test and electric connections for controlling airplane's surface for manoeuvrability. Considering a constraint on weight and theme of competition, airplane was built from lighter materials like wood and thermopol. An 11-channel radio controller was used to control the airplane during flight. In mission 1, airplane had to fly through a profile defined by organizers in the airfield. For mission 2, payloads were required to be attached with the airplane while taking care of all the points in the technical inspection test. In mission 3, targets had to be dropped from the carrier in certain areas. Team NUSTAG performed well in all these three missions and brought laurels for Pakistan and their parent institute, National University of Sciences & Technology, NUST. This project will help design unmanned aerial vehicles for civil and military application like traffic monitoring and area surveillance etc. Important projects under this title are already being supervised by the faculty in NUST College of Electrical & Mechanical Engineering, Rawalpindi.

SCME Open House 2013

School of Chemical and Materials Engineering (SCME) organized their Open House/ Job Fair on May 16. 11 projects were presented by Chemical Engineering Seniors and 16 by the Materials Engineering batch respectively. Students displayed their Final Year Projects in the form of comprehensive posters to deliver presentations to potential employers.

The students' projects covered diverse topics including, focus on innovations in armory, nano filters and energy production to mitigate the prevailing energy crisis. A unique project on 'Co2 Absorption in Nanocomposites' was submitted in collaboration with the University of Mississippi and University of Missouri. Some of the projects had been made in collaboration with industries such as Fauji Fertilizer Company (FFC) and Attock Refinery Limited (ARL).

A number of industrial and academic representatives from over 12 organizations such as Fauji Fertilizer Company (FFC), Attock Refinery Limited (ARL), Rastgar Group, NESCOM, SNGPL and NDS etc. visited the Open House. Industrial stalls were also set up displaying modern equipment such as corrosion resistant fittings by SNGPL. Recruitment interviews were also conducted by companies such as ARL, SCEW, FFC and Ibrahim Fibers for selecting candidates.



Presentation by a Thai Architect at SADA

School of Art, Design and Architecture (SADA) is actively involved in broadening the horizons of their students by unveiling the world of architecture upon them through presentations of renowned international architects. In continuation of this series, a special presentation by Ar. Sathirut Nui Tandanand from Thailand was organized jointly by Institute of Architects of Pakistan (IAP) and SADA on May 20.

Ar. Nui is a renowned practicing architect & the chairperson of the fellowship committee of Arcasia. He prepared his presentation on the design processes for the regional students. He shared the projects of various architects in relation to design, development & implementation. The presentation was avidly attended by the students and faculty of SADA along with other guests.

04 Co-curriculars Corner

“Mind Your Language”: A humorous play staged at NBS

BPA-2k12 organized a hilarious play called: “Mind Your Language” on May 27 at NBS Seminar Hall. It was their English literature final semester project. The play was inspired by an old British series showed on TV, Mind your Language. Since it was a class project, every student was involved in management, co-ordination, marketing, finance, decor etc. Dr Ashfaq Hassan, Dean NBS was the chief guest at the event.

It was a comic play about an English learning institute abroad. People from different countries joined the class to learn English and the way their newly appointed teacher handled them was depicted in a humorous way. It turned really interesting and amusing as people with different languages tried to communicate with each other. The students who played various characters included Moshin Ashfaq as English teacher, Areej Yasin as Arabic, Maira Shaukat as Chinese girl, Japanese boy was played by Abdul Hadi, Spanish student was Talha Hanif, Sikh



depicted by Daniyal Nisar, Pakistani by Imran Naeem, French by Zoha Imran, Colombian by Saman Zaheer & Pakistani lady by Hanin Babar. The acting skills of the talented students were much appreciated by the dean NBS.

Mathavenger: An Arithmetic Race

The students of Centre for Advanced Mathematics and Physics (CAMP) organized ‘Mathavenger’ on May 16. It was designed with a twist in the regular Scavenger Hunt series and added a mathematical element, characteristic of CAMP. There were a series of clues, the first of which was announced at 15:15 at ASAB, followed by a series of 10 more, each correct guess to the clues leading to the next destination. The wrong guess could lead to a wrong turn which disrupted the pattern. Hence the Mathavenger had students running around H-12 campus, from department to department. The clues included basic mathematical questions and required logical reasoning. The first team to reach the finish line was from SCME at 16:40, followed by the



runners-up reaching the destination only five minutes after the winning team. The winners were awarded cash prizes by the chief guest, Dr Maqbool, HOD Physics Department, CAMP in the closing ceremony. All proceedings of the event went to support the Student Endowment Fund at NUST.



NUST Media Club Awards Ceremony

NUST Media Club (NMC) which is renowned for mesmerizing photography and videography, bade farewell to the executive members of the club who will be graduating after this semester. The award ceremony was held in NBS Seminar hall on April 14. Pro Rector Academics, Dr Asif Raza graced the occasion as the chief guest.

The farewell was attended by all the executive body of NMC and Pro Rector awarded certificates to all the executive body for

their diligence and dedication. The graduating students included the president NMC; Moiz Siddiqui, General Secretary; Awais Salik, Hafsa Waheed, Bilal Abbasi and Qamar Abdul Rehman were awarded with shields along with the certificates. Dr Asif commended the efforts of the executive body NMC in covering the events at NUST. He further expressed his best wishes for the graduating executives of NMC and pointed out the fact that students should train themselves through societies like NMC for the practical life where people expect high from graduates nowadays.

NICE students visit Natural History Museum

2012 batch of NUST Institute of Civil Engineering (NICE), SCEE visited the Natural History Museum located at Shaukat Khan, Islamabad as a corollary to the course of Engineering Geology on May 15. The museum was established in 1976 under the patronage of Pakistan Science Foundation, Ministry of Science & Technology. Students accompanied by faculty members visited the four principal divisions namely Botanical Sciences Division, Zoological Sciences Division, Earth Sciences Division and Public Services Division of the museum. The first three divisions are engaged in the collection, identification and research activities pertaining to plants, animals and mineral resources of Pakistan respectively, while the latter is responsible for mass education and popularization of natural history various displays, exhibits and dioramas.

SCME bids farewell to batch 02

The School of Chemical and Materials Engineering (SCME), NUST, organized a farewell party for the graduating batch of 2013 on May 27. The function was arranged in SCME lawn and the students and faculty together produced lovely décor for the black and white themed party while the students were dressed in tuxedos and saris. A farewell video prepared by Batch 03 about the graduating batch's journey through the years was shown. This was followed by a humorous skit, depicting the current political scenario that had the audience in stitches. The seniors also took a moment to give their farewell messages to the faculty and juniors of the school and shared their invaluable journey at NUST with their mentors. The best part of the farewell was the seniors mimicking their teachers' idiosyncrasies and habits. Farewells are always incomplete without titles and this one was no different with creative titles bestowed on students like 'teri mehrbaani' and 'Miss Meera' to name a few. And so the farewell night became a bittersweet memory for SCME.

SEECs Drama Festival

Drama Fest 2013 was organized for the first time in SEECs on April 13. Produced by SGA SEECs Literary Society, it took place in EME College auditorium. The students along with their family members and faculty also attended the event. All the batches gave individual performances and showcased their acting skills on skits ranging from comedy to tragedy. Their story lines carried deep messages, depicting evils of our society and encouraging people to change for the better.

The theme of their play revolved around Pakistani society and how we can bring a change in it by amending ourselves individually. This concept was preached throughout the play while maintaining a good sense of humor, especially between shifting scenes when one of the characters from the play would walk, dance or just move awkwardly across the stage. The winner of the drama fest was the Junior Batch. All the batches performed very well and mesmerized the audience with their plays.



SEECs Farewell Party

In order to bid farewell to the 2013 batch, a themed dinner party was organized by SGA SEECs Programs and Activity Society in NBS grounds on May 17. Mr Arshad Ali, Principal SEECs was the chief guest on the event. The theme of the function was 'Agent X-007' and it was observed that most of the students had adequately followed. Programs and activity Society was successful in setting up fabulous décor for the function. The juniors were geared up and motivated to make it a memorable event for their seniors. The evening kicked off with a song, from a junior student, followed by a series of skits and parody videos of all the three batches: BEE-1, BICSE7 and BIT11. Lastly, Principal SEECs addressed the gathering in which he recalled his own memories and warmly wished the out-going batch for successful future endeavors. The dinner was served later, followed by a series of class pictures. It was a fun night, evenly managed by the organizers, and one could see the faces getting nostalgic as the night matured.



SCEE bids farewell to batch 2009

NUST Institute of Civil Engineering (NICE), SCEE organised a farwell party for the outgoing batch of 2009 on March 23. The Oscar themed night was one with exciting performances, revisiting old memories and joyous moments. The farewell was well planned and organized by 2010 batch who put a lot of effort in making the night memorable for the seniors.

The event started with a dazzling dance performance by Hamza Baig. Afterwards, several plays and small dramas prepared by 2010 batch were displayed. The plays showcased humor, old memories, sarcasm and fun all in a good way. Following the theme of Oscars, awards depicting personalities were also distributed among the students of senior batch. The highlight for the night was a solo performance by Ali Ahmad Khan of SMME who posed as the famous personality, Tariq Aziz. The farewell



was attended by 2009 and 2010 batches of Civil engineering as well as faculty members. Dean SCEE, Brig. S.M. Jamil and Associate Dean NICE, Dr Liaquat Ali were also present at the occasion.

Farewell trip of Chemical Engineering students

The senior batch of School of Chemical and Materials Engineering (SCME), NUST had their final year farewell trip on May 18. The students along with faculty member, Mr Nouman Aslam, went to Mushkpuri and hiked up to Meran Jani. At Meran Jani, the group witnessed snowfall and they enjoyed the snow fights and slides. The class fondly recalled their game of Dumb Charades where the almost-chemical engineers expressed their acting skills. The scenery was a sight for sore eyes and everyone had their moment to reconnect with nature. At the end of the trip they had an encounter with a snow leopard as it lazied out of its cave, which was an unforgettable sight. The students took the trip as a chance to celebrate the bond they had developed over the 4 years in SCME before they all set out on their professional paths.



MCS Pantomime 2013

In customary MCS fashion, the graduating batches, TE-46 and BESE-15, received the farewell of their lives at the Pantomime 2013, which was organized solely for them. The event took place on Saturday night, May 4. The theme for the pantomime was 'Groove 80's', a tribute to the fashion and styles of the 80s. The event was hosted by TE-47 and BESE-16 along with other junior classes – all of whom worked tirelessly to set up a spectacular event for all the guests.



Commandant MCS, Brig Ali Farhan was invited as the chief guest. The show formally commenced with a recitation of the Holy Quran and a beautiful Ham'd. After that, Commandant MCS Brig Ali Farhan presented medals to the students who had performed exceptionally well during their stay at MCS. CSUO Zeeshan Mubarak was awarded the Best Military Student medal, NC Zainab Abbas was declared Overall Best Student, ORP Muhammad Ahsan – with an impressive GPA of 3.92 – was awarded the Best in Academics medal, NC Anum Saud received the Best in Extra-Curricular Activities medal and Gentlemen cadet Ammal Abbass received a medal for Best in Sports. After the dinner, the students showcased their talents in the form of singing, dancing and doing comic mimicry of their seniors. GCs of TCC-21 presented the commandant with a souvenir. In his address, Commandant appreciated the efforts of the organizing team and wished the very best of luck to the graduating students in their future pursuits.

05 Sports News

SCEE Cricket League tournament

The final of the popular 7th SCEE Cricket League (SCL) was played on 2nd May 2013 at NICE. The event comprised 10 teams, divided into two groups. Two teams were to qualify from each group for the semi-finals. Teams from NUST Institute of Civil Engineering (NICE) and Institute of Environmental Sciences and Engineering participated in the event. The final was played between team from IESE and 2012 batch NICE. In a nail biting match that followed, team from IESE subdued the opponents and was crowned the winners for first time. Daud Tareen from IESE was declared 'Man of the match'.



IESE Indoor Sports Gala kicks off

IESE sports committee organized a thrilling indoor sports competition under the name of 'IESE Indoor Sports Gala'. Principal SCEE Dr Nasrullah formally started the event with a game of table tennis.

The competition included table tennis, carom, chess, e-gaming and a fun game, 'Minute to win it'. Both students and faculty participated enthusiastically. Table tennis singles and doubles showed the skills, activeness and coordination of the players. Chess, E-gaming, carom and 'Minute to win it' energized the participants too. The fun and games echoed in IESE department for three days till the closing ceremony in which the shields were presented to the winners of each category by Principal SCEE Dr Nasrullah and souvenirs were presented to Principal SCEE, Associate Dean IESE, and faculty head of IESE Sports committee, Dr Fahim by the IESE Sports Committee.

Table tennis (single) was won by Harris bin khawar and Anum Imtiaz while Table Tennis (doubles) by Harris and Hassan in male category and Anum Imtiaz and Sana Rasool for female category. Dr Fahim Khokhar won the faculty competition. Muqet Iqbal took the lead in 'Need for Speed' while UG-04 won 'Counterstrike' gaming competition. Yasir Shabbir was declared the winner for chess competition.



Sports Gala kicks off at SMME

The 14th of May, 2013 marked the inauguration of the first ever SMME Sports Gala and also the beginning of a tradition that hopefully will be carried on by future students of SMME. The Student Council of SMME (SCS) organized the event. Four Houses, namely Bulldozers (Red), Drillers (Yellow), Crushers (Green) & Hammers (Blue) were competing against each other.

An opening ceremony was organized in which many esteemed members of the faculty along with the Principal SMME, Dr Abdul Ghafoor, graced the occasion with their presence. With the unveiling of the Champion's trophy by the Principal, the Sports Gala was officially launched. There were a wide variety of sports which gave the sportsmen of SMME the platform to showcase their carefully honed skill, developed after hours of dedication and practice.

There were early signs of the Red Bulldozer's dominance when they came first in the Tug of war, the first event played in the Gala. They went on to win the Football, Futsal, Volleyball and Basketball

events. The crown of table tennis championship was won by the Yellow Drillers, whereas Green Crushers bagged the glory of Chess & Counter Strike. Blue Hammers came second to Bulldozers in football & futsal.

On the last day, all the houses went to the Islamabad Sports Complex for the Athletics and Swimming events with overall victory for the Bulldozers almost assured. However, the Yellow Drillers fought valiantly to win the athletics and the swimming events coming neck to neck with the Bulldozers. The Cricket final between the Drillers and the Bulldozers was to decide who would reign supreme. In the end, the Bulldozers became champions of the first SMME Sports Gala by an impressive victory in the Cricket final, while the Yellow drillers were the runners up. At the closing ceremony, prizes were distributed among the winners of the Sports Gala.



06 Achievements

“A Heartbeat”: Heartwarming life story of a student

Rabiya Ashraf Sahibzada, a Mass Communication student at NUST Business School (NBS) authored a book titled “A Heartbeat” which could melt the heart of its readers. It is the story of Rabiya Ashraf’s life, a story of a mother’s battle with cancer and her daughter’s battle with herself. Rabia lost her mother to cancer in 2009. Rabia has received orders from Afghanistan, India, US, Australia and UK. The book compiles an array of poems, moments, incidences and accidents from her life. ‘The tears won’t come anymore. It’s weird and it’s been a year. It’s a relief but the hollow is still there. When someone becomes the reason and cause of your existence, it’s rather difficult to let go’, a favorite line shared by an avid reader from here extract.

Not only does the book revolve around a mother daughter relationship but also on Father-Child, Husband-Wife, Relatives, Siblings and friends. But most of all, it revolves around the relationship between a person and his God. This book not only brings tears and smiles but re-instills a sense of faith in one’s self. The book is a must read for someone who wants to read something that is raw, from the heart and hauntingly beautiful, all at the same time.



Teams from IESE and NBS win second position in Business Plan Competition

The Rawalpindi Chamber of Commerce and Industry (RCCI) organized a business plan competition on May 22. Eight groups from six different universities from Rawalpindi and Islamabad participated in the competition. Two groups from National University of Sciences and Technology (NUST) participated in the competition having the following business ideas: “Water filtration systems engineered with membrane-nanotechnology” from IESE and NBS and “Sales and Statistical Software” from IGIS.

The group that showed outstanding performance included Anum Imtiaz, IESE (SCEE), Talal Ali Khan from IESE (SCEE), Faisal



Afridi, Muhammad Ali, and Waqas Ahmed from NBS. It was a great honor and privilege for IESE and NBS that its students secured second position in the competition and a prize of Rs. 20,000/-The business idea was presented on ‘Water filtration systems engineered with membrane-nanotechnology’ which increases not only the efficiency and life of the systems but also purifies water up to 95%.

NBS students publish paper

Two students of NUST Business School namely, Zubair bin Junaid and Waqas Ahmed started working on a paper in April 2011. Their paper titled “impact of technology on product quality in the cement industry of Pakistan” was successfully presented in the conference held on April 27 at Abbottabad Pakistan, which was admired and encouraged by the session chair. It was written under the supervision of Mr Mohammad Asim. The paper has been accepted for publication in the journal of international society of universal research. These two have also been invited



to attend next conference of the society to be held in Malaysia on July 6. Students have started working on the next paper and are looking for sponsors to attend that conference.

Nustians triumphant in Microsoft Imagine Cup

Team 'Smass' comprising of Saadia Qamar, Mehak Nadeem and Sana Ikram won Microsoft Imagine Cup Nationals in the Innovation category this year. Their project 'Demyst' is a system that allows control of the environment as well as the movement of a computer cursor using only brainwaves. A user's brain signals are decoded to perform various tasks such as switching on lights, dimming the fan etc.

EEG signals from the forehead region are detected and after extensive signal processing and machine learning, are decoded. These signals are then used to control a cursor on a computer screen or passed on to a hardware unit controlling the room's environment. The device in its initial phase of development decodes 6 different types of signals. The intended users for this prototype are individuals suffering with motor disease or complete paralysis, such as Stephan Hawking, who are incapable of any muscle movement but have brilliant active minds. This system can allow such users to communicate in a way previously not possible, decoding their brain signals directly.



NUST Official Joins External Accreditation Panel for Omani College

Engr Muhammad Ismail, Director Quality Assurance National University of Sciences and Technology (NUST), was invited by Oman Academic Accreditation Authority (OAAA) to join the panel of external reviewers to conduct the accreditation visit of Royal Air Force College of Technology Muscat. The accreditation visit was carried out over the last week of May 2013. The other members of the panel included the academics; Dr Elizabeth Stanley, Former Assistant Provost Zayed University UAE, and Dr Andrew Thomas, Head of School of Languages in Bahrain Polytechnic Bahrain and the industry representative Dr Hilal Abdullah Al Hinai, General Manager Oman Oil Refineries and Petroleum Industries Company (ORPIC), Oman. Dr Susan Trevor-Roper, Quality Assurance Expert OAAA, was the Executive officer for the accreditation visit. Participation of Engr Ismail in the external review of the college not only afforded him an opportunity to represent Pakistan in an international panel in a foreign country but also helped him in his own capacity building. The experience so gained will help Engr Ismail to organize the Internal Academic Quality Audits of NUST Institutions in a better manner and also contribute more effectively in the Institutional Performance Evaluation of national universities arranged by Higher Education Commission Pakistan.



MCE faculty publish and present their research papers

Research paper titled 'Forensic Geotechnical Distress Evaluation of Damaged Buildings in Alluvial-Leossic soils; A Case history', was presented at the Seventh International Conferences on Case Histories in Geotechnical Engineering, Chicago, USA by Dr Abdul Qudoos Khan of Military College of Engineering (MCE), NUST. The conference was considered as one of the leading conferences in geotechnical Engineering.

Another research paper titled 'Review of the Seismic Retrofitting of Sardis Dam' authored by Randa Asmar and Dr Abdul Qudoos Khan of Military College of Engineering (NUST) was published in the proceedings of Seventh International conference of Case histories in Geotechnical Engineering held from May 1 to 4 in Chicago, USA.



The research paper titled 'Empirical Correlations: Drained shear strength for slope stability analysis' authored by Dr Manzoor Hussain was published in the journal of Geotechnical and Geo environmental Engineering ASCE/June 2013. The journal is ISI indexed with I.F= 1.017.

“Knock, And He’ll open the door
Vanish, And He’ll make you shine like the sun
Fall, And He’ll raise you to the heavens
Become nothing, And He’ll turn you into everything.”
Maulana Jalal-ud-Din Rumi



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