

MONTHLY  
**NUSTNEWS**

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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 event so as to give it timely coverage.

# International Conference on Concrete Technology & its Applications-SCEE

National University of Sciences and Technology organized a two-day International Conference on Advanced Concrete Technology and its Applications (ACTA-2012) from Nov 6 to 7. The chief guest of the closing session of the conference was Secretary Ministry of Science and Technology, Mr Akhlaq Ahmed Tarar.

The conference aimed at promoting awareness, transferring technology and benefiting from the extensive work of reputed foreign research scholars. Enhancing awareness on exploitation of modern concrete and promoting collaboration between industry, academia and practitioners were few of the agenda points of the conference. The conference was organized with valued cooperation of DAAD (German Academic Exchange Service) and ACI (American Concrete Institute).

Secretary MoST, Mr Akhlaq Ahmed Tarar urged the researchers to work on such a significant issue which is often considered a non-issue. He commended the endeavours of all those who made the conference a success. Mr Tarar considered the conclusions of the conference really significant and was of the view that the recommendations would definitely prove helpful while formulating future policies.

The keynote speaker of the conference Dr Thomas A. Bier, chair of Construction Material Technology at University of Freiberg Germany addressing the participants, accentuated the use of modern concrete in cementitious materials and highlighted its tremendous growth. He further explicated how conventional concrete was being steadily replaced by the modern one being inevitable in future applications. Dr Bier was of the view that a complete shift to this novel technology could be witnessed throughout the globe. Dr Thomas Ditt, Head Cultural Section German Embassy, emphasized the exigency of inter-cultural academic relations. He further said that promotion of academic pursuits of students may result in a revolutionized world. Ms Ursula Saarbeck, Local Representative Pakistan, mentioned the academic exchange scholarships specified for the students pursuing their higher studies and briefed how academic exchange programmes pave the way for educational affluence within academia.

Pro Rector NUST Dr Asif Raza graced the inaugural session of the conference as the chief guest. Addressing the participants, he asserted that environment friendly and



less energy consuming concrete was the need of the day. He further highlighted the efforts NUST was making to promote awareness for advancement in modern concrete technology and its application in various civil engineering projects.



# NUST hosts 2<sup>nd</sup> South Asian Youth Conference



This year South Asian Youth Conference moved from its origin city, Bangalore, India to the capital of Pakistan where 120 delegates from 8 countries belonging to the South Asian Association for Regional Cooperation (SAARC), aimed to empower the youth of the region and utilize their potential to erase the gaps between the countries to progress together. NUST had the honor of hosting the second chronicle of this renowned conference from Nov 5 to 10.

Open to students and professionals under the age of 30 from the South Asian region, the conference provided a platform for those actively involved in the socio-political and entrepreneurial space. While the broader theme of the SAYC series is Peace, keeping the current context in mind, the theme of SAYC 2012 was MumkinHai! SAYC 2012 was primarily being led by Hila, a youth-oriented organization with a sole purpose to gather the youth under a platform for global issues. The statement "From Conference to Coalition" inculcates the spirit of aligning the efforts of the youth and move towards

the principle "Together we are Stronger." The event kicked off with its opening ceremony at the Pak-China Friendship Center. Federal Information Minister, Qamar Zaman Kaira, asked the younger generation to take the lead in improving regional relations. "I believe peace will come through the youth," he added. "No country, no institutions can stop you from bridging the gap and making the region peaceful and prosperous." During the second and third days, the Conference revolved around education, with delegates engaging in thematic sessions, workshops, action projects and various interactive activities. Keynote speaker for day 3, Member National Assembly Dr. Nafisa Shah discussed the challenges faced by South Asian countries, focusing mainly on the economy and natural disasters. She stated, "According to a UNESCO study, over half of the world's illiterate people live in four countries, three of which are in South Asia." The interactive session was received and applauded well by the foreign delegates. The importance of education was highlighted to develop a peaceful, tolerant society that respects diverse opinions and promotes multiculturalism. The delegates also enjoyed a rock concert in the evening.

Next day marked promotion of "cleanliness" in the country and to spread this message to the entire region, delegates gathered bright and early in G-9 Markaz, gathering trash in large plastic bags and raising eyebrows from passers-by. The sixth and last day of the conference brought together all the representatives to consolidate their "action projects" and create the SAYC Action Plan. The closing ceremony featured the experiences of the delegates throughout the conference while ending the conference on a mutual felicity. Finally, a cultural fest hallmarking cultures through performances, art craft and food was organized.

Foreign Minister of Pakistan, Hina Rabbani Khar also held an exclusive session with the participants of the conference. Rector NUST Engr. Muhammad Asghar and Naseem Khan Achakzai were also present at the occasion. The day ended with a cultural festival at IBEX Club.



# International Workshop on Air Quality Monitoring and Global Warming Trends at SCEE



An International Workshop on Air Quality Monitoring and Global Warming Trends in Pakistan was held at IESE, SCEE from Nov 15 to 16 in collaboration with Graduate School of Human and Environmental Studies, Kyoto University, Max-Planck Institute for Chemistry, Mainz and Institute of Environmental Sciences and Engineering, NUST. The workshop was a part of NUST's efforts to address the environmental issues of Pakistan and was productive in briefing the need to revisit the existing air quality management procedures and global warming trends particularly in Pakistan in addition to a global perspective. Different speakers from IESE, Pakistan Met Department and Germany gave lectures and insight into the current scenario. Sessions included "Over arching initiatives of Government of Pakistan on Climate Change by Syd. M. Hussain (MoCC)", "Global Warming Trends in Pakistan by Dr. Ghulam Rasool, PMD Pakistan," "Global Warming and Global trends of Water Vapours by Prof. Dr. Thomas Wagner, Germany," "Climate Change in Pakistan, Impacts & Possible Remedial Strategies by Mr. Munir Sheikh GCISC", "Monitoring Atmospheric Composition using LIF by Prof. Dr. Yoshizumi Kajii, Japan," "Introduction to car MAX-DOAS techniques by Dr. Muhammad Fahim Khokhar, NUST" and finally "Status of Climate Change Research in Pakistan by Mr. Ali. T. Sheikh, LEADS Pakistan". The workshop also featured a field visit to Punjab University, Lahore with the objective of data acquisition and student training. A short field campaign around the twin cities of

Rawalpindi and Islamabad was conducted by using Max-DOAS spectrometer mounted on mobile platform. Participants got hands-on training to operate the spectrometer and analysis of the field observations.

A Memorandum of Understanding (MoU) was also signed between Max-Planck-Institute for Chemistry, Mainz, Germany and the Institute of Environmental Sciences and Engineering (IESE) in which both parties agreed to perform joint atmospheric measurements applying the MAX-DOAS-technique and to exchange relevant knowledge (including software) and publications on these kinds of observations. Prof. Dr. Thomas Wagner, Head Satellite Remote sensing Group, Max-Planck-Institute signed on behalf of the Max-Planck-Institute while Dr. Nasarullah Khan, Principal SCEE was IESE's signatory. German DAAD Head Miss Ursula Sahrback also attended the ceremony.

According to recent reports from German watch Global Climate Risk Index (2012), Pakistan is among the top ten countries most affected by extreme weather events with adverse socio-economic impacts. Such events also slow down the pace of development in countries like Pakistan. Hence, it is strongly needed to implement efficient but cost effective strategies in order to cope with impacts of such extreme events and climate change. The workshop provided a platform for such measures.





## MoU Signed between NUST and e-solutions

An MoU Signing ceremony between e-solutions and NUST was held at the main campus of the University on Nov 15. Pro Rector NUST Dr Asif Raza and CEO e-solutions Mr Tariq Somro signed the Memorandum of Understanding.

Pro Rector NUST Dr Asif Raza asserted on the urgency of making the MoUs as much effective as possible. He further said that the actual potential lay with students which had increased manifold over the years. He was also of the view that the University desperately required the projects which really make the difference and to make it viable, focused areas needed to be closely monitored. Dr Asif Raza commended the efforts of all those involved in making that Memorandum of Understanding possible.

Dean School of Electrical Engineering and Computer Science, Dr S. M. Zaidi and Dr Ejaz Hussain, Assistant Prof Institute of Geographical Information Systems, briefly gave an overview of the working relations of their respective school/institute with the industry and highlighted their successful collaboration with e-solutions for mutual benefits.



Earlier addressing the audience, CEO e-Solutions talked about vision of e-solutions: "Pakistan will become a bright GIS spot on the world map." He maintained that they aspired to be recognized by their customers, partners and ESRI as the world class, high quality GIS/ESRI support. He also touched upon the value proposition, resources planned and areas of main focus for e-solutions.

## Rector acknowledges distinctive Nustians in co-curricular activities



In order to acknowledge and convey earnest felicitations to the talented Nustians whose meritorious presence at various co-curricular events brought laurels to NUST, a prize distribution ceremony was conducted on Nov 27 at the NUST main campus. Fervent and zealous Nustians proved their mettle at various national and international platforms recently and brought heaps of success stories with them.

Prizes were distributed among distinctive performers in APMUN Conference Bangkok Thailand, All Pakistan Mathematics Olympiad in GIKI, GIMUN (GIKI Model United Nations 2012), Lipdub Competition, London International Youth Science Forum, WMUN (Women Model United Nations),



ITU Young Innovators Competition, USA Conference for Cultural Youth Exchange Program, Start-Up Weekend, Softcom and World Economic Forum.

Later speaking at the occasion, Rector NUST acknowledged the commendable performance of the distinctive performers at national and international platforms. He asserted on the exigency of broadening their vision further. Adding he said that only through following the golden footsteps of legendary figures of the nation like Sir Syed, Iqbal and Quaid-e-Azam, the real success could be experienced. Engineer Muhammad Asghar further said that all the distinction holders were actually the true face of Pakistan.

### New Principal at RCMS

Dr. Ahmed Ejaz Nadeem has recently joined NUST and has been appointed as Principal, Research Centre for Modelling & Simulation (RCMS). He is a graduate of College of Aeronautical Engineering and holds MS and PhD degrees in Electrical & Computer Engineering from University of Florida at Gainesville, USA. He has an experience of more than 20 years of academia. His current research interests include modelling and simulation of high-speed interconnects, design and development of microwave circuits, smart antennas, low-noise amplifiers and microwave passive components. He has published several papers in journals and international peer-reviewed conferences. NUST wishes him a fulfilling stint as head of RCMS.



## Shabash Pakistan rekindles patriotism at NUST



In the second session of the event titled *Shabash Pakistan*, an overwhelming number of NUST students turned up to enlighten the spirit of patriotism deeply embedded among them. NUST *Bazm-e-Pakistan* in collaboration with School of Leadership organized the exciting episode at the main campus on Nov 13. The daylong session focused on the revolutionary concept of Leadership is Action, not Position. *Shabash Pakistan* is a nation building movement started by the School of Leadership. The movement aims at reviving patriotism and *Pakistaniyat* among the youth by encouraging them to undertake Social Action Projects, which in turn will help project a positive image of Pakistan in the national and international arena. *Shabash Pakistan* is a series of three one-day sessions, divided into three months i.e, from October to December- 2012, each to be held in four universities namely NUST, Bahria, COMSATS and Air University.

The session started with the thought-provoking talk of Umair Jaliawala, Trainer at School of Leadership. He enquired from the participating students how they had experienced change at a personal level in the last one month since the programme kicked off. Giving examples from the past, he also talked at length about the importance of being practical in life with a positive approach. Later, moving on through panel discussions on a range of topics, the youth discerned the positive, negative and apathetic attitudes of the people in their surroundings.

Awareness of these roles would enable them to be in a better position to deal with different people and situations. At the same time the implementation of “hats” concept gave an unbiased picture of the current situation of Pakistan. The problems were identified and each “problem” then became an “Opportunity” for these young leaders to work on.

With the understanding of Toolkit of change (Responsibility, Empathy, Focus and Collectiveness) participants presented their “Vision of Pakistan Projects” based on the problems they identified. These projects will be implemented in the coming month. Project reports are to be presented in third and the last Step next month to establish authenticity and to provide a platform to youth to join in their efforts even if they have not been part of *Shabash Pakistan* programme.

During the second half of the session, Kamran Rizvi, Director School of Leadership, also shared his experiences with the youth. He encouraged them to exploit their potential at individual level and bring about a positive change in the society through their compassionate actions directed towards nation building. School of Leadership is known for being pioneers of the training industry in Pakistan. They provide a platform for individuals to discover utilize their unquestionable ability to elevate their lives through conscious endeavour, which favourably impacts their families, organizations, communities and society at large.

## NAC hosts Orientation 2012-13

After its successful registration drive, the NUST Adventure Club (NAC) organized its first ever club orientation on Nov 12 to let the students and faculty of NUST know what exactly NAC stands for and to give them a glimpse of some of the events planned for the year. The open-door segment comprised two components: motivational talks and activity demonstration, and was held at SCEE Auditorium and Grounds.

Motivational talks featured Lt. Col. Dr. Abdul Jabbar Bhatti (Tamgha-e-Basalat), a veteran mountaineer and paragliding enthusiast who recently led a joint Pakistani Chinese contingent to make the fastest ascent to Mount Spantik (7027m) as a symbol of Pak-China friendship. He is also the pioneer of certified paragliding in Pakistan. The success story of climbing the mountain fascinated the young audience as they heard the trivia of the climb. The second speaker,





## HIGHLIGHTS

Sarmad Tariq holds the world record of longest non-stop drive by a quadriplegic, covering 1847 km from Khyber to Karachi. He also represented his country in ING New York City Marathon 2005 and made history for Pakistan by returning with a finisher's medal. He was left paralysed down his left shoulder and thus confined to a wheelchair at age of 15 but his unwavering determination is an inspiration for many. His message of never losing hope enlivened the audience and everyone eulogized his untold story. The two motivating sessions were etched into the memories of many.

Mr Tahir Khan, President, The Adventure Club Pakistan and Mentor NAC presented a brief description of activities of his club and collaboration with the NUST Adventure Club. Lastly, Dean SCEE, Engr S. M. Jamil presented souvenirs to the guest speakers and applauded the efforts of the Adventure Club for organizing such an event.

For the second segment of the event, everyone was escorted to the grounds where half a dozen camping tents

of various sizes were set up. Many of them learned a great deal about what it feels like camping in the outdoors. Karate demonstrations conducted by the black belt master Atta-ur-Rehman mesmerized the students with the agility and the toughness of the art and the impeccable skills of launching flying kicks all over the place as well as making smashing tiles into smithereens look like slicing butter. Students were particularly enthusiastic about the archery session headed by a former national champion in the sport who taught the students the proper technique of launching arrows in to a target several feet away. Almost a hundred students tried archery for themselves and enjoyed this peripheral a lot. A paragliding demo was also displayed in which the trainer showcased the ground handling and running aspects of the glider. All in all, the NAC Orientation proved to be an informational and exciting event for the 300 students and faculty members who participated in the event.



## NUST Plastic-free Campus

NUST "Plastic-free Campus" was held on 12<sup>th</sup> November, at NIT Auditorium with the objective of cutting down the plastic consumption in NUST and banning the use of plastic where necessary along with suggestions to reuse the plastic where possible. The seminar was followed by an activity that required teams to collect all plastic material thrown outside from NICE to IESE. Principal SCEE, Dr. Nasrullah Khan, Representatives of schools and NUST administration also took part in the seminar.

The facilitators on hand were Mr. Adnan Shahid, NUST Alumni and the current Chief Ideas Officer (CIO) at Ideogeny and Mr. Hashaam Akhtar who is a PhD Scholar and lecturer at ASAB NUST.

Mr. Hashaam Akhtar gave a very interactive and engaging presentation on the disadvantages of plastic bags, laying forward some interesting statistics explaining how our habits and daily routine contribute to ever increasing amount of plastic piling up in the environment leaving the audience with a big question in their minds: "what can we do about it?" Mr. Adnan Shahid picked up the presentation from that question, highlighting the potential of Pakistan's nation and encouraging minor changes in our daily routine which significantly reduce plastic consumption and therefore its negative impacts on the environment. He brought into discussion a novel idea of road carpeting using plastic bags which is economically feasible and many other small-scale projects reusing plastics.



Moving further, Mr. Shahid captivated the attention of audience yet again with a fascinating time capsule video, a message from our generation's prominent individuals to the generation of the 22<sup>nd</sup> century. All in all, it was a thought provoking and inspiring event. To conclude, tokens of appreciation, recycled paper bags made by NEC executives, reflecting upon NEC's goals and objectives, were presented to the speakers and the Chief Guest, Dr M. Nasrullah Khan. In a span of one hour, the enthusiastic participants collected 25 kg of waste consisting of plastic during the plastic collection activity. The winning team was awarded with a cash prize of Rs. 1000. The plastic collected was used in the upcoming event of "Trash to Model Contest" by NUST Environment Club.





## NUST BioReach Society organises Workshop on Polio Champions Campaign

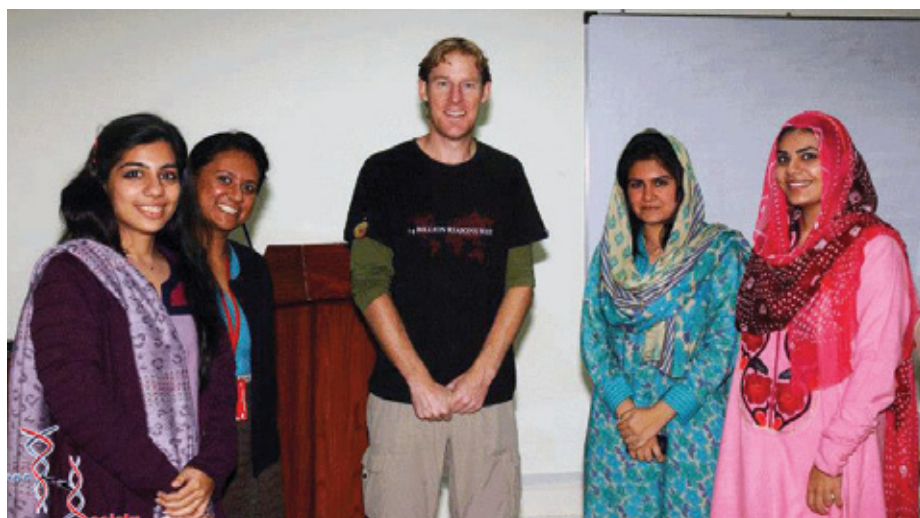
BioReach Society, in association with Global Poverty Project (GPP), organized a workshop 'Polio Champions Campaign', at Atta-ur-Rehman School of Applied Biosciences (ASAB) auditorium from Nov 16 to 17. The event aided efforts of GPP and aimed to strengthen the collaborative forces between the two organizations.

The introductory presentation explaining the efforts GPP is putting in to exterminate poverty and polio from around the world. Mr D'Arcy Lunn, an educator, teacher, campaigner, passionate trainer and celebrator at the global level engraved the fresh minds with the fact that every individual is a global citizen and hence should be facilitated with the basic necessities of life. According to alarming statistical data, approximately 1.4 billion people are suffering from extreme poverty. Mr D'Arcy stressed on individual efforts and also discussed various barriers to ending poverty like corruption, lack of resources and trade. The other face of the coin was 'Polio' which has crippled many innocent lives. Pakistan is among the 3 countries that are left with polio, 99% of the which has been reduced due to mass immunization and the remaining 1% is still to go down. Mr. D'Arcy

mentioned that they are eradicating Polio at the advocacy level. GPP has spread its branches across the globe to ensure polio-free state of the world. The eloquent words of Mr D'Arcy instilled the importance of polio eradication in every young heart.

The next day, professional training was

adopted according to the trainer. For example, Shahid Afridi, the heartbeat of cricket lovers and Bollywood stars like Amitabh Bachan, who himself immunized children with polio vaccine. He also discussed various tips to answer the questions and techniques to build up an effective story. For that, special exercises were given to the trainees to reinforce these qualities in them. After such a productive session, closing ceremony commenced. Polio Champion certificates were given away to the trainees as a mark of appreciation. At the culmination of the program, Mr. Lunn was presented with a shield as a



given by Mr D'Arcy. It was enriched with the elements of brainstorming, healthy discussion, debates and fun games to intertwine the beads of ideas together. Special strategies on how to influence those who can influence others are

token of appreciation from Dr. Ashraf, Principal ASAB. BioReach President, Saba Safdar and General Secretary, Fatima Riaz presented the esteemed guest with a certificate as a token of remembrance.

## Faculty Orientation NIPCONS

The Professional Development Center (PDC) of NUST Institute of Leadership in Education organized a faculty orientation program from Nov 28 to 30 for the NUST Institute of Peace and Conflict Studies (NIPCONS), at CIE Building H-12 campus. The purpose of the orientation was to familiarize the faculty of NIPCONS with NUST's other constituents, programs, policies and opportunities.

The orientation was attended by Rector NUST – Engr. Muhammad Asghar, Pro-Rector (Planning & Resource) – Engr. Muhammad Shahid, senior officials of NUST, representatives from each campus and faculty from NIPCONS. On the occasion, presentations by Rector NUST, Director Administration, Director Academics, HR Director, Registrar NUST and Director Innovation & Commercialization were given to the faculty. Attendees were made conversant with the policies, operations and infrastructure of all the directorates, as well as the future and strategic thrusts of NUST. Moreover, the event featured an

introduction to employee policies, compensations, programs and trainings for personal growth of faculty. The orientation was followed by a formal tour of the H-12 campus



## HIGHLIGHTS

# Books Donation by Dr. Asif Faiz, World Bank, USA

National Institute of Transportation (NIT), School of Civil & Environmental Engineering (SCEE) signed an MoU with Dr. Asif Faiz for donation of over 400 Books, Technical Reports, Journals and CD/DVDs to NIT (SCEE) library. The collection

contains some rare books and reference materials of exceptional value worth thousands of dollars that are no longer in print or commercially available. Dr. Asif Faiz, an advisor/ consultant with the World Bank in transportation engineering and planning, holds a doctorate in

transportation engineering from Purdue University, USA and is a Member Emeritus of the Low Volume Roads Committee of the US Transportation Research Board (TRB). Dr. Asif has had a distinguished 34-year career in the World Bank including several advisory and management positions. He served as the World Bank's Highways Advisor from 1999-2002 and the

Country Manager for Sudan from 2005-08. He is the author of over 60 publications including a book on automotive air pollution. Through his efforts and liaison with TRB of the National Academies, USA, NIT (SCEE) library has also received

a rare collection of the Series of Synthesis of Highway Practice from TRB, USA. These books are taken on charge of NIT (SCEE) library and accordingly registered in Catalog [Web Online Public Access Catalog (OPAC)]. The addition of such exceptional collection of books in NIT (SCEE) library would add to the knowledge base of the students/

researchers in the area of civil engineering in general and transportation engineering in particular. Rector NUST, Pro-Rector (Academics and Research), Principal, SCEE and all faculty members, express their heartfelt appreciation to Dr. Asif Faiz for this generosity of books donation.



## Meet the Scientist Series Continues

NUST Science Society organized another session as an extension to their signature 'Meet the Scientist' series. On Nov 19, the attendees had the chance to meet Maj. Gen. Dr. Azhar Mahmood Kayani, a cardiologist with over 30 years of clinical experience. The MTS session was attended by students and faculty of NUST as well as Dr. Bilal, Principal CES, Dr. Mujahid, Principal SCME and Dr. Zahid, HoD Materials Engineering, SCME. The Chief Guest on this occasion was Dr. Chris J. Willman, CEO of NRG Bio-fuel Inc. Canada.

Dr. Azhar Mahmood Kayani's lecture was focused primarily on Cardio-Vascular Diseases (CVD). He began his

talk stressing on the commonly known phrase 'prevention is better than cure'. He discussed the high risk factors and easy changes in lifestyle to combat disease. Dr. Kayani disclosed the results of the Data Analysis that his team carried out to assess the impact of CVD in the country's population and presented a range of statistics to the audience stating that 23.6 million people are expected to fall victims to CVD by 2013. While answering audience queries, the guest speaker shed some light on his early life in his small village, which he recalled with a smile and stated how he owed his success to the place. He operates a free clinic there, which he attends every weekend. He is also actively involved in overseeing the education standards in his village since he identifies them as his roots, from where he attained success.

He urged the students that there is no other way to achieve something than by hard work.

Maj. Gen. Dr. Azhar Mahmood Kayani has the privilege of being the personal physician to the President and the Prime Minister of Islamic Republic of Pakistan. He is currently the Executive Director of Rawalpindi Institute of Cardiology. Dr. Azhar also has the honor of serving as President of Pakistan Cardiac Society and Senior Consultant Interventional Cardiologist at AFIC. Meet the Scientist Sessions have brought the students at NUST face to face with some of the brightest names in the world of science from the entire country to inspire them.





## Student Development Workshop by Mobilink

To bridge the gap between student perceptions and corporate realities, the Industry Liaison Office (ILO) invited Mobilink, Pakistan's leading cellular service provider to conduct the "Mobilink Student Development Workshop" at NUST on Nov 20. The aim of this workshop was to help NUST students understand the needs and requirements of

the corporate world and aid them in exhibiting their true potential to the prospective employers.

This workshop was attended by over 100 students from NBS and SCME. The interactive session gave students an insight into the art of résumé writing, tips on starting careers and interviewing and key skills employers look for. The session also covered areas of "professional grooming". A question and answer session followed where the students further clarified their doubts. Additionally students were also given career advice.



## NUST Alumni Association's Governing Board meeting

A meeting of NUST Alumni Association Governing Board (GB) was held on Nov 6 at Centre for Innovation & Entrepreneurship (CIE), NUST. President NAA, Mr. Ammar Khan presided over the meeting which was attended by Senior Vice Presidents NAA and Presidents & Senior Alumni of NUST constituent Schools and Colleges. The formation of committees and their domain of work was discussed and deliberated by the Governing Board.

The Committees that are expected to be formed before the next GB meeting include Alumni Membership Committee, Marketing Committee, Website Committee, National & International chapters Committee, Industrial Liaison Committee, Finance Committee and Document Review Committee. The meeting marked an important stepping stone for NUST & its Alumni as formal work has been started to strengthen the bond between NUST & its Alumni.



## Orientation of newly inducted NG staff conducted

An Orientation training program for newly inducted NG Staff was held on Nov 15. NG staff includes 1-16 grade employees of NUST. The one-day session commenced with opening remarks by Director HR NUST Engr. Muhammad Pervez, followed by a lecture by AD Sarib Hayat as he gave the employees an overview of NUST: its various Directorates, constituent Schools, channels of communication and reporting through Directorates and employment rules and policies. AM Rabia

Sikander informed the staff about codes of conduct, attire, discipline, support services and policies of banking/ATM. Ms. Naila Sadiq from NUST Center for Counseling and Career Advisory (C3A) also gave a presentation to the employees, motivating them to ensure optimal performance in the NUST environment. Mr. Mussawir Khan Afridi of NUST Security Department introduced the staff to policies of his area including issuance and importance of NUST card, emergency procedures, entry/exit procedures etc. Finally a visit of H-12 campus was organized by the Professional Development Center (PDC).

## Workshop on Case History Writing Skills



A workshop on 'Case History Writing Skills' was planned and executed by Professional Development Center (PDC), NUST, on Nov 21. The workshop was organized in collaboration with Asian Institute of Technology (AIT) and NUST Institute of Leadership and Education (NILE). It was held at CIE Hall and was attended by faculty members.

Dr. Qaiser Hameed Malik, Principal NILE, introduced the attendants to the newly established department of NILE, its goals and future aims. Following was a course overview presented by resource person, Mr. Jamal Arif. He lauded NUST

and welcomed the assembly to the discussion based leadership class. He invited them to move to a concept of 'learning' and not 'teaching'. Chief Guest Engr. Mohammad Shahid stressed on the importance of modernization in teaching methods.

Day 1 saw the participants read, discuss and debrief case study of 'Ernie Budding "A & B"' and that of I.M.A.G.E International. They discussed major elements that contributed to high performance. Day 2 revolved around 'Developing the Teaching Plan and Teaching', with group activities that

involved volunteers demonstrating a teaching plan. Day 3 included the much appreciated study of 'Twilight of the lecture' from Harvard Magazine as well as screening of the movie '12 Angry men'. Following a lecture on writing a case, the group placed conclusive remarks on student teacher relationship and teaching methods. With final remarks from Principal NILE and participants' feedback, this splendid workshop was sealed by Rector NUST Engr. Asghar Pervaiz's address.

## CMS project kickoff session held

Enterprise Technology Transformation Project (ETTP) - Phase 1 was initiated at the CMS Project Kickoff session held at the Seminar Hall, Main office, NUST. The event was organised by the ICT Directorate on Nov 30. The session started with the presentation of Director ICT, featuring ETTP phases, CMS implementation stages, governance and module mapping.

Mr. Salman, Co-CEO, Techlogix also gave a presentation on Techlogix. He discussed NUST Rollout at a high level, critical success factors and pertaining organisational challenges. The event was also attended by senior staff of HQ NUST and head of institutions who discussed several technical and financial aspects regarding the project. In the end, Rector NUST, Engr. Asghar Ali addressed the audience, advocating the need of CMS in NUST and assured HR, financial and infrastructural support for successful implementation of the project.





## CES unleashes MS Energy Systems Engineering Program

MS Energy Systems Engineering Program was inaugurated at Center for Energy Systems (CES), NUST on Nov 20. The ceremony, arranged in SCME seminar hall, commenced with the arrival of the chief guest who was none other than the distinguished scientist Dr. Samar Mubarakmand. Guests from around the globe joined in welcoming the audience, with names including W.T. Chatham, President Chatham Resources Ltd., Canada; Chris Willman, CEO NRG Bio-fuels Inc., Canada and Asma Khan, a representative from USAID. In his speech Mr Willman reinforced the idea of scientific methodology that should be followed for a scientific process. In order to find necessary resources to start a project he directed the assembly's attention towards the entrepreneurial route. Ms. Asma appreciated the projects at CES that reflected confidence with learning. MoUs were signed on industry academia collaborations by ICI, FFCL, PSO and APTMA. The MoU signatories expressed their willingness to facilitate CES students by providing them with internship opportunities, they also agreed to aid development of laboratories at CES. ICI presented a cheque of a generous sum of 5 Lakhs to assist laboratory and research advancements.

In his final address to the congregation, Dr. Samar expressed his pleasure towards the attention that educational institutes

had dedicated to the energy sector. Audience's curiosity regarding the 'Thar Coal Project' was also appeased as he informed them of its progress. He explained how his team was conscious of the impact of their project on the environment specifically air pollution and global warming. Rector NUST Engr. Asghar Pervez gave his closing address to the audience. NUST Shields were presented to guests as token of gratitude. An eminent highlight of the event was the inauguration of the Renewable Bio-fuels Park and Display at CES by Dr. Samar. An energy Exhibition was also conducted to create awareness among the masses about solar devices, in which different

companies demonstrated their solar gadgets for domestic and commercial usage.

Following the inaugural, a short symposium on advanced renewable Energy Systems was held where various topics were discussed such as Solid Oxide Fuel Cells by Dr. Zuhair (CES faculty), Scope of Oil Exploration in Pakistan by Mr. William Chatham,

energy shortage issues were discussed by Dr. Adeel Waqas (CES faculty), Photovoltaic devices and their fabrication by Dr. Pervaiz Akhtar (PCRET) and Dr. S.Z. Farooqui discussed prospects for wind energy development in Pakistan. The seminar was attended by students and faculty of CES where they were updated on the ongoing researches in the energy sector.



## High School Outreach Program at ASAB

NUST BioReach Society organized 'High School Outreach Program' from Nov 10 - 11 at Atta-ur-Rahman School of Applied Biosciences (ASAB). Students from different schools and colleges of Rawalpindi and Islamabad were enrolled in the program. The workshop focused on nurturing the young minds by giving them practical knowledge through hands-on experience in the lab. The participants were formed into various groups with each having a group leader. They started off with a visit to all labs followed by introductory session about lab equipment, lab ethics, bio-safety and research methodology, so that the participants could get an in-depth look into the workings of a modern research institute, revolving around molecular biology and microbiology. Later, the students attended lectures on DNA and genome conducted by ASAB faculty members, Dr. Faraz Bhatti, Dr. Hussnain Janjua

and Mr. Waqas Nasir Chaudhry. After laying the groundwork of concepts, the participants were introduced to practical sessions including DNA extraction, restriction digestion of DNA, basic microbiology, bacteriophages and molecular biology techniques. In addition, students themselves performed the experiments in the light of the tutorials given by the trainers. The closing ceremony was held the

next day in which Principal ASAB Dr. Muhammad Ashraf awarded certificates to the participants and trainers. ASAB is one of those institutes in Pakistan which are striving to bridge the gap between modern research and young students. Keeping in mind its slogan "Empowering the researcher and enlightening the public", NUST BioReach Society with the support of ASAB channelized its energies to impart a research oriented hands-on experience to the scientists of the future.



### Shenyang Aerospace University, China delegation

A two-member delegation from Shenyang Aerospace University China visited NUST on Nov 16. The delegation comprised Richard Chen, Head of International Education College and Charles Lv. Head of International Students Admission and Career Planning Office.

The delegation had a comprehensive meeting with Pro-Rector NUST Dr Asif Raza where the matters of mutual interest were discussed. Both sides agreed to sign an MoU between the two universities in the areas of student and faculty exchange and also settled to hold joint conferences, seminars and workshops. The delegation acclaimed the lofty stature NUST



had achieved within academia and industry in a very short span of time. Later, the delegation members visited SEECS (School of Electrical Engineering and Computer Science) and SMME (School of Mechanical and Manufacturing Engineering) where they were conducted to various sections and state-of-the-art labs.

### Visit of Iranian Delegation

Iranian Embassy Counsellor Mr. Hashem Nasiri visited NUST on Nov 28. Mr. Nasiri met Pro-Rector (Academics) Dr Asif Raza and discussed the matters of mutual interest. The guest was briefed about the establishment, institutions, programs, research initiatives and future plans of NUST. Later, Mr. Nasiri was given a guided tour of the NUST Campus, Centre of Innovation & Entrepreneurship (CIE) and research labs of School of Electrical Engineering & Computer Science (SEECS). The visiting delegate appreciated NUST's infrastructure and research facilities provided for its faculty and students. Mr. Nasiri expressed keen interest in establishing collaboration between NUST and academic research centers in Iran.



### Delegation from AIT Thailand

A three-member delegation from Asian Institute of Technology (AIT), Thailand visited NUST on Nov 15. The delegation was headed by Prof Said Irandoust, President AIT. The delegation met with Acting Rector Engineer Muhammad Shahid and discussed the matters of mutual concern and showed interest in establishing formal relationship between the two universities in the areas of joint research and exchange of faculty and students. After the discussion, the delegation visited NUST Business School (NBS), research labs of School of Electrical Engineering & Computer Science (SEECS) and School of Mechanical & Manufacturing Engineering (SMME).





## Prof Douglas Tallack, University of Leicester, UK

Professor Douglas Tallack, Pro Vice Chancellor (International), University of Leicester, UK visited NUST on Nov 12. The delegation met with Rector Engineer Muhammad Asghar and Pro-Rector (Academics) Dr Asif Raza and discussed the matters of mutual interest. After the discussion, Prof Tallack visited NUST Business School (NBS), Centre of Innovation & Entrepreneurship (CIE) and research labs of School of Electrical Engineering & Computer Science (SEECs). The visiting delegate showed keen interest in establishing formal relationship between the two universities in the areas of joint research and exchange of faculty and students.



## Delegation from University of Southampton, UK

Mr. Andrew Bird (Regional Director South Asia) and Dr. Richard Wills (Research Institute for Industry) of University of Southampton, UK visited NUST on Nov 29. The delegation met with Pro-Rector (Academics) Dr Asif Raza and discussed the matters of mutual interest. Later, Dr. Richard Wills delivered a lecture to NUST students and Faculty on "University Industry Collaboration Model." The delegates also visited School of Chemical and Materials Engineering (SCME) and Centre for Energy Systems (CES). The visiting delegate showed keen interest in signing an MOU for establishing formal relationship between the two universities in the areas of joint research and exchange of faculty and students.



## C<sup>3</sup>A counsels little shining stars at SOS Village

Counselling is the flagship component of Centre for Counselling and Career Advisory (C<sup>3</sup>A), which strives to promote psychological well being among the NUST community. C<sup>3</sup>A team visits SOS Children village on fortnightly basis and counsels the identified children with issues who are on the priority to get help. C<sup>3</sup>A is committed to having discussions with them and sharing useful tips to help these kids living with their house mothers, teachers and the SOS director. SOS Children Village Islamabad has 15 homes and almost 100 children live there. 90% of these children are the victims of the earthquake of 2005 in northern areas of Pakistan. They have mostly lost both or one of their parents in the catastrophe. SOS is providing them with basic needs of life but they lack some essential skills of psychological nature. Most of them are going through

Post-Traumatic Stress Disorder, and associated problems of low confidence, nightmares, self-esteem issues and have lost interest in life. Younger kids are going through issues regarding trust, aggression, belongingness, materialistic trends etc.



### 21<sup>st</sup> UG Convocation of MCS



Military College of Signals, one of the founding constituent colleges of NUST held its 21st Undergraduate Convocation on Nov 17. The ceremony was attended by a large number of guests including parents and families of the graduating students. Rector NUST, Engineer Muhammad Asghar, HI(M), graced the occasion as the chief guest. Among others present at the ceremony were Brg. Ali Farhan, Commandant Military college of signals, faculty members, educationists and a large number of guests and students. Speaking on the occasion the Chief Guest appreciated the efforts of the faculty and management of MCS for holding such an auspicious event of the next generation of talented engineers of Pakistan. The Chief Guest stressed upon the urgency to produce trained scientists and technologists. He also emphasized that the challenge was to transform our tertiary educational institutions into centers of excellence, with high standards of teaching and a culture of sustained learning.

He also added that developing countries like Pakistan should base their industrialization strategies on their priority development needs, beginning with low-level, appropriate technology best suited to the needs of their people. This aim cannot be achieved without the critical mass of well trained and qualified men and women possessing the right skills and knowledge. He acknowledged that NUST is producing highly skilled and motivated young specialists to meet scientific and industrial challenges of today's progressive Pakistan. Addressing the graduates, Rector NUST, Engineer Muhammad Asghar said that today is a special and very exciting day as they are now stepping into the vast world of science and technology, where curiosity coupled with ingenuity is going to push them to the frontiers of knowledge. Their profession is synonymous with creativity, which makes them distinct from

all other professions. After graduation, engineers become an international commodity because their activities will not be confined to only one place but extended to all those corners where human beings exist.

He encouraged them to live with this pride and deep rooted aspiration, that they have to excel and cope with the fast changing world, readily introducing themselves to the new technologies and other scientific advancements. He further added that our real challenge as a nation is to remain focused in the right direction while tapping the limited resources available, in pursuit of a promising future.

Commandant MCS, Brigadier Ali Farhan, in his welcome address, presented the college report, highlighting the progress in academic and research excellence the College has achieved over the last 6 decades. Elaborating on the continuous efforts and accomplishments of MCS' graduates and the faculty and their commitment to the development of indigenous technology for national interest, he said, "We at MCS are diligently improving research facilities and capabilities to ensure that meaningful and purposeful research oriented programs are mounted that in turn lead to solving the nagging economic, social, technical and financial problems confronting our nation."

A total of 200 students of Telecom and Software Engineering programs were conferred degrees of Bachelor of Engineering. President's Gold Medals were awarded to NUST Cadet Sidra Javed TE-45 and NUST Cadet Rabia Sultan Abbasi BECS-14. Chief of Army Staff's Gold Medals were received by Capt Ali Anjum TE-45 & Gentleman Cadet Saad Bin Shafaqat BECS-14. Rector's Gold Medals were awarded to Capt Ali Anjum TE-45 & NUST Cadet Sahrish Naeem BECS-14 for their outstanding performances in their respective degree projects.



# NUST-SEECs holds 5<sup>th</sup> Undergraduate Convocation

As many as 259 graduating students received degrees in the disciplines of Electrical Engineering, Information and Communication Systems Engineering and Information Technology during 5th Undergraduate Convocation of NUST School of Electrical Engineering and Computer Science. The ceremony was held at the main campus of NUST on Nov 10, and was attended by distinguished guests from academia, government departments and corporate sector, besides parents of the graduating students. Sikandar Mustafa Khan, Chairman Millat Group of Companies graced the occasion as the chief guest.

President's and Rector's gold medals were awarded to outstanding graduates on the basis of academic performance and final-year projects. Additionally, three gold medals sponsored by TechAccess, National Radio and Telecommunications Corporation and University Research Centre were awarded to students based upon their merit positions. Muhammad Imran and Maheen Khalid from BIT-9 won President and Rector's Gold Medals respectively. Essam Muhammad Idris Khan and Ameen Yousuf from BICSE-5 won the President and Rector's Gold Medals respectively. Syed Kamran Haider and Bilal Zafar from BEE-4 claimed President and Rector's Gold Medals respectively. Ameer Khalid from BIT-9, Kinza Nasrullah from BEE-4 and Hifza Javed from BICSE-5 achieved the Industry gold medals.

In his convocation address, the chief guest extended felicitations to graduating students, their parents and faculty. He complimented NUST on its dynamic initiatives and efforts to promote research and innovation in the country. Expressing his admiration, he said, "Universities in the developed countries are important tools to expedite national development. They are the wellsprings of research and intellectual activity in a country. It is a matter of great satisfaction that in alignment with NUST traditions, SEECs has attained a high mantle of excellence in a very short span of



time. Especially praiseworthy are the strides achieved in the field of research and collaboration with world class universities and research centres. I salute the initiative and sustained efforts of NUST in building meaningful linkages with industry." Earlier, Rector NUST, Engineer Muhammad Asghar complimented, Principal, Dr Arshad Ali and his dedicated team of highly capable and gifted people on transforming this premier NUST School into a model institution with enviable international credentials. "Here is a living and vibrant example of what focused vision with a matching passion, dynamism and commitment can accomplish. The newly formed NUST schools will find in the success story of SEECs much to learn and emulate," he appreciatively remarked.

Dr Arshad Ali in his speech briefly touched on the progress and achievements of SEECs over the years and the enriching research culture made possible at the school by his highly capable and dedicated faculty. In his message to the graduating students, he advised them to apply new insights and new solutions to today's difficult and complex challenges faced by the nation. He exhorted the young graduates to strive hard to carve out a niche for themselves in the career of their choice. The convocation concluded gracefully, leaving its indelible imprint on the minds of young graduates and their families.

## Seminar series conducted at CAMP

Center for Advanced Mathematics and Physics (CAMP) continued its series of seminars in November. On Nov 7, Dr. Zahid Raza of National University of Computer and Emerging Sciences, Lahore Campus, delivered a lecture on 'Structure and Divisibility Properties of GCD and LCM'. The lecture shed light on advancements in research on power GCD and power LCM matrices. On Nov 21, Dr. Rehana Ashraf of Forman Christian College, Lahore, delivered a lecture on 'Knots Invariant', where she took the audience through a problem solving tutorial for knot recognition, the fundamental problem of the knot theory. Along with elaborating the concept of the subject she also discussed the relationship between knots and braid groups. Faculty members



identified how essential seminars were to CAMP, being a department much focused on research, it is essential that students stay updated with ongoing studies. The Seminar series also maintains the linkages of CAMP with the national mathematics and physics faculties.

## NUST Entrepreneurs Club-SEECs brings 'Startup Weekend Islamabad'

Some very amazing minds, a lot of loosely coupled ideas and a passion to be better than the rest was all what NUST Entrepreneurs Club provided to Nustians on Friday Nov 16. Islamabad Startup Weekend was not just an event or an idea; it was a practice to promote the culture of entrepreneurship among the youth of Islamabad.

Startup Weekend is a non-profit organization based in Seattle, Washington, USA. The highlight of the organization being the various "fifty-four hour" weekend events that are held around the globe every year in collaboration with Kauffman Foundation, Google and Microsoft. The idea is

to develop a common platform for developers, business managers, startup enthusiasts, marketing gurus, graphic artists etc. In a mere fifty-four hours to work for those ideas and then present them in front of a panel of judges, who then select the best of the best. The winners with the best ideas were given some capital to start their ventures and the sponsors Cloud 9 also announced free incubation space to the winners as a starting place for their ventures. Some of the renowned people and facilitators working as entrepreneurs joined the participants over the course of the weekend. Muneeb Idrees, Co-Founder Daraz.pk at Rocket Internet

GmbH; Syed Ahmed, Vice Chairman at P@SHA and CEO at DPL; Adnan Shahid, Chief Ideas Officer at Ideogeny and Chief Operating Officer at Branding Bees; Obaidullah Khawaja, Entrepreneur, founder and CEO at Sovaia; Saj Khan, Senior Program Manager, Convo.com; Faisal Khan, award-winning entrepreneur; Mohammad Yousuf Khan, Master Strategic Planner at Six Sigma Associates; Adnan Ali, Marketing Technologist; Fahad Yaqub, Developer at Scrybe; Jibran Ghani, Digital Marketing Manager at Vopium; Hasan Mubarak, Business Development Manager at Vopium A/S; Zubair Khan, CEO at Tranchulas; Zeeshan Haider, COO at Askoli and Rohan David Emmanuel from Coffee Shop Gurus mentored and judged the young enthusiasts during this period.



## C and C++ Programming Workshop at SEECs

The IEEE promotes the engineering process of creating, developing, integrating, sharing, and applying knowledge about electro and information technologies and sciences for the benefit of humanity and the profession. Keeping the agenda in mind, the IEEE School of Electrical Engineering and Computer Science (SEECs) Chapter organized a 5 day workshop on C and C++ programming from Nov 5 to 11. The crash course focused on C and C++ coding which aimed at imparting the basic concepts of programming to the 100 participants from SEECs, ASAB and SCEE. The facilitators and instructors were from the senior batches of SEECs, teaching from their own fresh experiences of programming. It is noteworthy that 97 of the participants were freshmen so the event was a learning opportunity for the novices.





## Lecture on 'Industry Matters' at CES

The faculty and students of Center for Energy Systems (CES), organized a seminar by Mr. Chris J. Willmann, titled "Industry Matters." Mr. Willmann talked about his research regarding Sound Wave method for Hydrocarbons exploration. He shared some of his experiences from life in Alberta and also discussed the Hydrocarbon fuel resources in the Canadian city. He compared these reserves with those present in the Middle East.

NRG Bio-fuels has outsourced much of its research to CES, NUST. Mr. Chris J. Willmann is the CEO of NRG Bio-fuel Inc, Canada and has vast experience in Oil and Gas sector. NRG is heavily involved to promote and facilitate the advanced research activities at CES, NUST.



## NEC Registration Drive

NUST Environment Club held its Registration Drive, an initiative to amass everyone to register at NEC and become a part of an active society, which received an overwhelming response. The temptation of events like 'Clean-up hike to Monal', 'Plastic-free Campus,' 'NUST Clean-Up Drive' & the honor of being a part of this esteemed

society was too hard to ignore. In merely two days the coordinators of IESE succeeded in making over 70 registrations. The coordinators did a great job by spreading all over the NUST campus i.e., departments, cafes, vans and hostels. They spent their free time enlightening the students about

the goals and plans of NEC. The registrations came in from students of almost every department including NBS, SEECS, SCME, NICE, IGIS, SMME, SADA, ASAB and IESE. With two more weeks of the Registration Drive to go, the excited and frenzied atmosphere of the green revolution is expected to pick up even more pace.

## Nasir Aziz gives lecture on building beautiful minds

Training and guiding the fast-tracked students of today onto the right path is crucial towards their development. It plays a significant role in defining their futures by clarifying misconceptions and hence converting the stumbling blocks into stepping stones leading them to be at the top of the ladder in their respective field. School of Mechanical and Manufacturing Engineering (SMME) invited Mr. Nasir Aziz, a renowned motivational speaker, to give lecture to the students of SMME upon "Building Beautiful Minds" on Nov 7 at NBS seminar hall. The lecture was attended by keen students from all the 4 batches and the faculty of SMME. Mr. Nasir Aziz did his bachelors from University of Texas, Austin, and his Masters from Yale School of Management and has taught at LUMS. From the start, Mr. Nasir Aziz took the students on a ride to exploring themselves, making them realize the faults within by giving appropriate examples. He painted the current picture of Pakistan which looks like a sinking ship which has its passengers in opulent apartments. He further categorized the masses into two types: the farmers and

the wood cutters. The farmer sacrifices his comfort to 'build' for his people while the wood cutter waits for the farmer to fall asleep and cuts all that he has built. He repeatedly emphasized the need to become "farmers" for the betterment of this nation. He also defined true success to depend on intellectual capital of its people which depends upon quantity and quality of 'Beautiful Minds'. Through the lecture, the students were taught ways to convert their potential into achievements and the map to destiny along with the factors influencing it was sketched.

In his ending remarks, Principal SMME Dr. Abdul Ghafoor paid his gratitude to Mr. Nasir Aziz for coming all the way from Lahore for giving the lecture.



## History of Performance Arts at SADA

A lecture was organized by faculty and students of School of Art Design & Architecture (SADA) on Nov 30 at SADA Seminar hall. The eminent visual artist Rabya Naseer was the guest speaker and her talk was centered on Feminism in relation with the History of Performance Arts. She discussed the interrelation between art and society. With a thesis on the subject, the speaker discussed how they form a part of contemporary arts. The division

is more recent in Pakistan; hence it is more of an experimental medium that touches on other aspects of arts as well.

Rabya Naseer is a graduate from National College of Arts (NCA) and Chicago Institute of Arts (CIA). She exemplified several pieces such as Yoko Ono's 'Cut Piece', 'How to Make a Happening' by Allan Kaprow and 'How to Explain Pictures to a Dead Hare' by the German artist Joseph Beuys as work of performance art. The talk was aimed to help students dissect existing social issues that are strengthened by norms and to develop critical thinking.



## New research platform paves way for future Bio-based society - SCME



Dr. Sarwat Iqbal, from Aventius Technologies, Netherlands, delivered a lecture on 'Catalysis: Chemical and Reactor Engineering,' in School of Chemical and Materials Engineering (SCME) on Nov 14. The seminar saw attendance mainly from the senior Chemical and Materials Engineering batch, along with other SCME students. Her talk was focused on two major areas: Catalysis for Bio-based fuels and the Fischer Tropsch Synthesis. The former deals with the successful research project at Aventius Technologies for the conversion of the economical and easily available raw material fructose to FDCA. FDCA has various uses as a building block for plastics, leather, cloth etc. Dr. Sarwat discussed her research on catalyst preparations, catalyst activity testing and disadvantages of existing catalysts.

This method for producing FDCA is environmentally friendlier than existing ones and is excellent for academic purposes; further research is being conducted to make it more industrially feasible. The seminar proved to be a good learning experience for the students at SCME.

## Two-day training on System Safety Engineering Application

Professional Development Centre (PDC) arranged a two-day training session on "System Safety Engineering Application" for industry professionals from Nov 7 to 8. Mr. Saif Ullah Farooqi, an experienced industrial trainer & auditor, was the resource person for this session. Participants from different industries and public sector organization attended the training workshop.

The course imparted to the participants, a clear understanding of importance of Health & Safety (H & S) management, main reasons behind it and consequences of no/poor management. They also discovered key elements of H & S management system; particularly risk assessments & controls and auditing. Fundamentals of risk management tools and their application in workplace were discussed in particular. What If, Checklists, FMEA, and HAZOP were taught in theory and exercise.

With this workshop PDC drew attention to the need for effectively managing health and safety systems in organizations; a need that had been highlighted further by recent fire incidents in the country.





## Standard Chartered Bank (SCB) Graduate Recruitment Drive

The team of Standard Chartered Bank headed by Ms. Ayesha Saleem, Talent Acquisition Specialist conducted its Graduate Recruitment Drive at NBS on Nov 19. After the presentation and Q & A session, an on-line test was conducted in Language Lab of NBS in which 33 students of MBA and BBA final year participated. The students were briefed about various aspects of the test. There are four tests; abstract, logical, numerical and wave assessment. Students clearing all the four assessments will get a link to the next stage.



## Lecture on Water Apportionment at NICE

A lecture on Water Apportionment was held at SCEE Auditorium on Nov 14, attended by Batch 2010 of NUST Institute of Civil Engineering (NICE). The guest speaker Mr. Amjad Nabiis, currently is a Consultant and Principal Engineer at Project Management and Policy Implementation Unit – PMPIU in Water Wing of Ministry of Water and Power Islamabad, Pakistan on the World Bank funded “Water Sector Capacity Building and Advisory Services Project” (WCAP). He has rendered his services at several renowned companies of the world including ACE-Malaysia, Mott McDonalds and NESPAK. As a Water Resources



Engineer, his expertise diversify from urban hydrology, GIS, Remote Sensing to storm-water management and reservoir routing.

The session gave the future civil engineers in-depth information of history regarding the water treaties of Pakistan as well as of the water scenario which includes details of rivers, canal system, dams etc. Several clauses of the Water Apportionment Treaty 1991 were shared with the students. Functionality of Indus River System Authority (IRSA) and its components were shared. A detail of Pakistan’s shrinking water resources were highlighted in contrast with the population boom. These brass tracks would be consequential for those wishing to pursue water resource management in future. The lecture was a part of Hydrology course and an antecedent to the field trip to Ghazi Barotha.

## SMME faculty participates in Field and Assistive Robotics Workshop at LUMS

NUST School of Mechanical and Manufacturing Engineering (SMME) houses a Department of Robotics and Artificial Intelligence dedicated solely to robotics research and education in the country and is the first of its kind in Pakistan. There is a separate lab for mobile robotics which has published quality research papers in prestigious international conferences as well as journals. The German-Pakistani Workshop on Field and Assistive Robotics (WFAR), a joint venture of the Higher Education Commission and the German Academic Exchange Service (DAAD) has become a regular event at the Lahore University

of Management Sciences (LUMS). The third workshop in this series was held at the Syed Babar Ali School of Science and Engineering (SBASSE) on Nov 16 and 17 at the LUMS campus. Two faculty members from the Technical University of Kaiserslautern; Professor Karsten Berns, Head of the Robotics Research Lab, and Daniel Schmidt were the guest speakers at the workshop. The workshop focused on motion-planning algorithms and low-level control. Three faculty members from SMME, namely Mr. Usman Bhutta, Mr. Vaqas Arshad and Mr. Naqaash Afzal participated in the workshop. The workshop also focused on highlighting the areas in which current research in robotics is being carried out at TU Kaiserslautern, LUMS, NUST and other local universities. Aside from being enormously informative, the workshop was also a very good networking forum as it attracted participants from all over Pakistan’s academia as well as the industry.



## 04 Co-curriculars Corner

### Nustians shine at GIKI MUN 2012

NUST added another feather to its cap when the team representing NUST at the 4th annual GIKI MUN conference, held from Nov 9 to 11, bagged awards and brought loads of glory to the university. Usama Mazhar and Hassan Nadeem from SCEE and SCME won the Best Delegates Award. Whereas, the Outstanding Diplomacy Award was won by Amin Fahad (SMME), Umair Jan (SCEE) and Muhammad Umar Khan from SECS at NUST.

The notable chief guest in the opening ceremony was Aitzaaz Ahsan, whereas the closing address was delivered by Asad Umar, the Central Senior Vice President of PTI. A Cultural Cabaret then followed which gave the delegates a chance to exhibit their culture and gave them the opportunity to interact with their peers. Day two saw grinding committee sessions stretching till evening. The sessions mimicked actual United

Nations committee sessions and brought the students face to face with global problems in fields such as human rights, development, health, security, politics etc. The students had to act as the country delegates, debating on the solutions to these issues and formed a collaborative resolution. At the end, Noori band staged a concert to the excitement of the audience.



### SEECs Jirga

After the success of the last year's session, SEECs Gov. Association (SGA) Literary Society came up with another sequel of JIRGA. It provided an innovative and feasible way of reaching out to the students and giving them a chance to express their views on topics given, and show up their oratorical and debating abilities. The 5-round competition featured a knock-out system in which 29 classes from different batches of SEECs took on one another in fierce battles of debates. The topics were versatile yet challenging like "War is

essential for Peace," "PTA banning websites is justifiable" and "Competition does more good than harm."

After the upbeat ardent knockout rounds and spirited debates, the classes BEE 2B and BESE 1A reached the finals with the topic "Formal education strain our minds and spirits rather than set them free" as the topic at hand. The final was held in SEECs Lobby with a huge number of students to support the finalists. Student Coordinator, Ayesha Mushtaq judged the finale. Following an impressive show of debates, confutes and conclusions, BEE 2B were declared champions of Jirga for this year.





## Ghazi Barotha Field Trip

As a subsidiary to the Water Apportionment Lecture, the 2010 batch of NUST Institute of Civil Engineering (NICE) were taken to a field trip to Ghazi Barotha Hydropower Project near Swabi Nov 15. The daylong educational trip was arranged to acquaint the student with the importance and different components of the head works which were commissioned in 2003 and 2004. Students visited three components of the project; the barrage, 56 km power channel (biggest concrete lined channel in the world) and the power complex (1450 MW). Public Relations Officer, Mr. Mehar Khan briefed the students about the history, capacity and future of the project which possesses the minimum of environmental and social impacts and is of monumental importance to the national grid of Pakistan.



## MCE students win 32<sup>nd</sup> All Pakistan Allama Iqbal Bilingual Declamation Trophy

Government College University, Lahore hosted the 32nd All Pakistan Allama Muhammad Iqbal Bilingual Declamation Contest 2012 (GCU AIBD) on 12th and 13th of November. Over 90 speakers of 46 institutions from all over Pakistan participated in both English and Urdu categories, demonstrating impressive oratorical skills, inimitable styles and wide ranging intellectual prowess. Military College of Engineering Risalpur, P.A.F Academy Risalpur, University of the Punjab and COMSATS Abbottabad teams were selected for the final round. Two speakers each from both English and Urdu categories were also selected to compete for the individual prizes.

Haseeb Zahid and Zark brought Laurels to Military College of Engineering, Risalpur by winning the Allama Iqbal Bilingual Declamation team trophy, while GC Muhammad Zark was also

adjudged as the second best Urdu Speaker at the contest. Prof. Sabir Ali Khan Lodhi, an eminent professor of Urdu Language and Literature who taught at GCU Lahore for 33 years graced the occasion as the chief guest. He awarded the prized and praised the commendable effort made by the speakers and encouraged them to realize the true spirit of debating in years to come so as to revive the legacy of GC University.

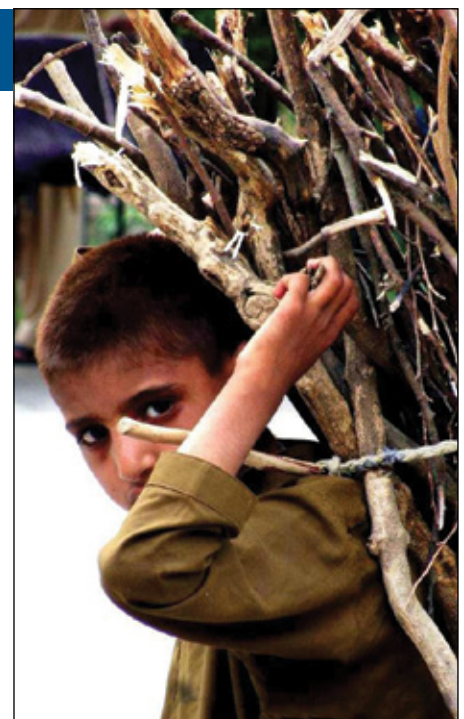


## NUST Media Club introduces Face off'12

NUST Media Club organized an online photography competition that involved Nustians from all schools. The best shot was sent to be displayed on the official NUST Media Club page so as to be judged by everyone. The Competition aimed at triggering interest in photography amongst students and to have a light hearted fun-filled event, that would have students from all schools interacting with each other and hence bringing them closer.

The competition was formally initiated on Nov 16, with entries from all over NUST pouring in. With a total of 81 students participating in the event, the response to the event was indeed heartwarming. After four days of enthusiastic participation the event

came to its end and the decisions were disclosed. According to the judgment criteria laid down by NMC, Zohaib Rafiq from SMME was declared the winner of Face off with a total of an overwhelming 3578 likes while Aliyiena Nasir from ASAB was the runners-up only by a close margin. Her pictures received 3412 likes. Prize money of Rs 2000 was given to the winner, while Rs 1000 were given to the runners-up.



## Learning On-Site: Industrial Visits by SCME

School of Chemical and Materials Engineering (SCME) planned an industrial trip for the class of the junior batch of Chemical Engineering on Nov 7. The class visited Sitara Chemicals in Faisalabad. The shift engineer took the class through a tour of the different stages involved in Processing. Along with their operation, he also shared information on economics, efficiency of the ongoing process and improvements made to the conventional one. The Control Room operators also guided the engineering students about the factors they needed to control. On Nov 20, the same class visited Dawood Hercules Fertilizers located in Sheikhpura, Punjab. The students were first provided with an overview of the Ammonia Plant and Reservoir functioning through flow charts and a presentation, followed by a tour of the plant by the shift engineers and laboratory analysts. The class sympathized with the effects of power shortage on such major producers.

An industrial visit to ICI for Me-03 was arranged by SCME on

Nov 14. The purpose of the trip was to show the students how polyester fibers are made in an industry. The experts at ICI gave a half hour lecture in which they explained the historical background of ICI and theoretical knowledge of polyester production. Students then visited various machines that conducted spinning, mixing, packing and rolling operations. All in all, students left ICI with a better understanding of practical knowledge regarding industrial processes.



## Tarbela Dam Visit

Industrial visits always play a cardinal role in strengthening the technical knowledge of students and provide them with the much-needed insight into mega industries. These visits aid in clarification of theoretical misconceptions and seals important concepts into the pockets of memory.

NUST School of Mechanical and Manufacturing Engineering (SMME) organized an industrial visit to Tarbela Dam on Nov 6. The trip was attended by the enthusiastic students of 5th semester who were accompanied by the faculty members. The instructor bid welcome to the students and faculty at tarbela and escorted them to the spillways. There, he delivered an elucidative session on the history, construction and working of tarbela dam and explained the mega scale of the dam operations which flabbergasted the students. The picturesque and gigantic reservoir was then shown to the students where the instructor explained the details about the reservoir operations. Then the students witnessed the colossal powerhouse which is the backbone of all the power networks of the country. After the elaboration on the working model of the dam, they saw the massive turbines, generators and basic parts of all the machinery. The students were taken aback by the sheer scale of the equipment.

Apart from the considerable magnitude of learning, the visit also broadened the horizons of the students, convincing them to put their thinking caps on to solve the problems of electricity generation in the country. The visit also served as an igniter, magnifying their ideas and imaginations as many students commence small projects related to the industry.



## Nustians win accolades at Women Model United Nations 2012

A delegation of five students from NUST took part in Women Model United Nations (WMUN) held at International Islamic University Islamabad, from November 16 to 18. WMUN was the first ever Women MUN Conference in the country in which female delegates from various parts of the country participated. This three day event was brimming with heated yet knowledgeable debates, tough negotiations and smart diplomacy.

NUST Debating and Dramatics Society (NDDS) assembled a team which represented NUST in the WMUN. The delegates had no prior experience in MUN and made NUST proud by bagging the Best Delegation Award along with three best delegate awards and two honorable mentions. The team comprised of three delegates from NUST Business School (NBS) and two from School of Art, Design and Architecture (SADA). The delegates from NBS were Myra Shaukat, Farheen Salman and Sadaf Basharat. The delegates from SADA were Maheen Agha and Izzah Zaman.

WMUN provided the participating delegates with a platform to polish their public speaking skills apart from expanding their social circles via networking amidst the sessions.





## Lipton Talent Hunt

Out of 250 teams from all over Pakistan, which participated in the first round of Lipton Talent Hunt, five teams from NUST are now amongst the 20 teams to go through to the second round of the competition. Unilever Pakistan is conducting the Lipton Talent Hunt for the third consecutive year, in which HEC recognized universities are participating. The competition revolves around designing a marketing campaign for Unilever product and having an on-campus implementation of the proposed plan. Last year, a team from NUST Business School won the competition and one of the team members was later offered a job at Unilever. The win brought good name to the university and also provided employment for students. The winning team will get a chance to fly to Dubai for a week to work as a part of Unilever brands team, and also, all members will directly enter the assessment centre stage of recruitment at Unilever.



## Clash of The Titans!

29<sup>th</sup> Nov was marked as the day of "Clash of the Titans" brought to NUST by Lipton Evergreen Team 7366. The cricket match between faculty and MBA of NUST Business School was a thriller where the teams soaked in the sun on the cemented pitch at NIT while the spectators enjoyed the view with a hot cup of Lipton Green Tea. The whole event was marked with continuous slogans and energetic chants from the spectators while both, the Faculty team called "Evergreen" and the MBA team called "Josheelay" gave it their best to win the day. Team Josheelay took to batting first and gave a target of 107 in 10 overs. Team Evergreen chased the target well and came out on top by winning the match. Sir Tanveer, a lover of Mathematics gave the match a commentary which none shall forget while the Dean NBS was an inspiration in both his fielding and batting style. The event could not have been possible without the immense support and initiative taken by Captain Team Evergreen Dr. Salim Batla and Anum Khalid from NBS MBA.



## Let's Clean up NBS

Taking into account the average litter present in and around NUST Business School (NBS) during the day, NUST Environment Club (NEC) organised a Clean Up Drive in collaboration with Lipton Green Tea; Elixir of Freshness at NBS on Nov 19. The clean up drive started with 15 volunteers and ended with more than 30 volunteers loading cartons with trash as NBS students joined NEC in its efforts to clean up their school. Trash was collected from the central courtyard, cafeteria and hallways of NBS with students joining the cause with great fervor. After the drive, the reusable items were separated for use in NEC's upcoming "Trash to Model Contest" whereas the rest were properly disposed of in garbage cans. The participation of NBS students was commendable. This clean up drive is a living example of how saving your environment is both fun and a serious responsibility. Activities such as these help create a very healthy and interactive environment for all.

## Hunt for the Clues!

Scavenger Hunt was also organized by "Lipton Green Tea: Elixir of Freshness" team on Nov 15. Almost instantaneously, 15 teams comprising three participants each were formed to hunt for the clues spread around. NBS witnessed a race against time as teams brimming with excitement spread out in search for clues that could lead them to winning the scavenger hunt. The event caused a stir and was a tremendous success as an overwhelming response was recorded. The teams included students from almost all the batches including those from MBA as well. Gift Vouchers were awarded to the top two teams.

## NUST observes World Diabetes Day

World Diabetes Day was organised at NBS on Nov 16 by team '1525'. Dr. Imran Mirza, a renowned researcher of The Diabetes Centre (TDC) came all the way from UAE to enlighten the attendees on the subject. He discussed the trends, causes, effects, prevention techniques and the role of TDC in wiping out diabetes from the region. The Diabetes Centre (TDC) is committed to providing excellent clinical services to the diabetic patients. It fosters and supports education & training in diabetes management for the medical profession and strives to promote public awareness of diabetes. Badges were also distributed to make attendees health managers of the campaign. To encourage student participation, Rs 5000 cash prize was also given to the best question posed in the interactive Q&A session. The elucidative session was followed by two performances to cheer up the crowd before the commencement of the solidarity walk. With banners, placards and charts carrying slogans of diabetes awareness, 150 participants walked for a cause from NBS parking lot to the School of Arts, Design and Architecture (SADA). Balloons, attached to the banner, were flown into the air as a symbol of solidarity with the local diabetics and formally concluded the proceedings.



## NBS *IDOL!*

Team 1525 with slogan: "Lipton green tea; Elixir of freshness" furthered their marketing campaign by organizing the NBS Idol at NBS on Nov 13.

The audience witnessed three rounds of incessant entertainment as 18 contestants battled with their soothing melodies, gut-busting jokes and dazzling dance moves to be the NBS idol. First round was open to all performances while in the 2nd and 3rd round, contestants had to incorporate "Lipton Green tea; Elixir of freshness" in their performances. Amidst the clamour and generous applause of the roaring crowd, the finalists cast a spell onto the audience with their magical performances. Ahmed Mujtaba, with his jaw-dropping dance moves, and Abdullah Qureshi, with his splendid voice, were announced the NBS Idols. Gift vouchers from the team of Lipton Green Tea; Elixir of freshness were awarded to the top three finalists.



## Lantern Night by Team '2435'

A Lantern Night was organised by team 2435 in NUST on Nov 16. Dean NBS was gracious enough to be present at the occasion. He also participated wholeheartedly in the ceremony by being one of the people who let go of a lantern. Each lantern was supposed to take a wish, of what you want to become and the ability to fulfill the gaps that you need to bridge. The ceremony was a huge success. Student body showed up after classes to support Team 2435 in their activity. It was a beautiful night with lanterns in the H12 sky at night. The lantern ceremony was enjoyed by the student body and a very encouraging feedback was received by the team.







## Lipton Green Tea: The Lighter Side of Life

In the flux of all the color, fervor, surprises, energy and one gem of a friendly yet fierce competition, Lipton Talent Hunt Team 1272 has had a few accomplishments which deserve credit. It has strengthened our belief in the Lighter Side of Life and brought a new set of remarkable ideas which have not only marketed Lipton effectively but also have revived the much needed notion of Corporate Social Responsibility.

The first event by Team 1272 was the movie night, which marked the revelation of their Logo too. The students watched Madagascar 3, a light and fun movie, thus adding a Lighter Side to Life. The next event was Tree Plantation, thus being associated with both the Lighter Side and Corporate Social Responsibility, the focus of every modern brand nowadays. The activity was conducted peacefully and smoothly, with several plants being planted by students, who were bursting with energy since the event was thought to be different and served a long lasting purpose.

Another event again presented a joyous aspect. The Lightest Duo Hunt involved a three-legged race for girls. The purpose was to cover all the possible niches in the market and give them a chance to be a part of The Lighter Side of Life. The race was very well received, with ladies teaming up and showing their competitive streak extensively. The winners were given a Voucher from the Body Shop which was very thoughtful and seemed to be a major attraction for all the active participants.

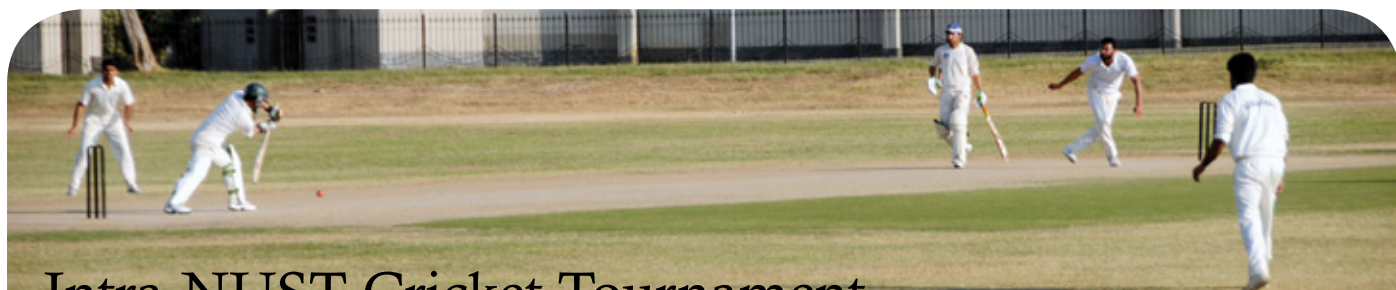




## Intra H-12 Cricket Tournament

Cricket matches were organized in the cricket ground near CIE building from Nov 2-4. Six teams from the main campus including teams from SCEE, SMME, SEECS, NBS, SADA & SCME participated in the event. The event produced some fresh talent and students played with zeal and zest.

Final match of the competition was played between SEECS & SCME. SEECS played the better game and won the intra H-12 tournament. Mr. Robina Anser was the chief guest and handed over the trophy to the jubilant winning team.



## Intra-NUST Cricket Tournament

Following intra H-12 cricket tournament, Intra NUST Cricket Tournament was organized from Nov 16-18 in Army Cricket Ground, Rawalpindi. A total of five teams including MCE, MCS, H-12 Campus and AMC participated in this event. All the teams had the best players of their campus who battled with their wit and cricketing skill to be the champions.

After some exciting matches, AMC and H-12 Campus found their place in the finals. The audience enjoyed a nail-biting match as AMC beat H-12 by just 8 runs. Highest scorer of the tournament was Dawood from H-12 Campus who scored 147 runs for his team. Trophy was presented to the winning team in the post match ceremony.





# Intra-NUST Hockey Championship 2012

Five teams, Two Days, One Cup! Military College of Engineering organized the Inter NUST Hockey Championship from Nov 3 to 4 at MCE Sports Ground Risalpur. The defending champion of the Intra NUST Hockey Championship for four consecutive years, MCE, made its way directly to the semi finals and subsequently to the final with 3 goals against 2 of

CAE in penalty strokes. The ever exciting final match managed to attract an immense audience from all over the Cantonment. The match was played between the teams of MCE and AMC. Thrillingly, the match stretched to the verge of penalty strokes during which the team of AMC rose as the victor with 4 goals on the board against 3 of MCE.

Commandant MCE, Brig Anwar Ul Haq, graced the occasion with his benign presence as the chief guest. He awarded prizes to the winner and runner-up teams and commended the superior standards and the excellent display of sports-men spirit by all the players.



# Intra-NUST Squash Championship

A glass walled court, a double-dot ball, and a Wilson racket are not the only things required for a game of Squash – it is the man holding the racket. Military College of Engineering organised the Intra NUST Squash Championship at its Squash courts in Risalpur. The event was organized parallel to the Intra NUST Hockey Championship from Nov 3 to 4. The teams of NUST H-12 Campus, MCE, CAE, EME, AMC and MCS participated in the event, the former three being the part of Pool 'A' and the latter falling in Pool 'B'. The final match was played between EME and AMC. The defending champions EME lost their title to AMC after an exciting game of squash. Commandant MCE, Brig Anwar Ul Haq, being the chief guest, expressed his pleasure and encouraged the players by awarding them with prizes.



*“Don’t practice until you get it right.  
Practice until you can’t get it wrong.”*

## 06 Achievements

### NUST team win RCCI Business Plan Competition

The NUST team comprising three students namely, Zarak Babar from IESE, Muhammad Ali and Sandaleen Khan from NBS secured 3rd position at the Inter-university Business Plan Competition organized by the Rawalpindi Chamber of Commerce and Industry (RCCI) on Nov 14. The competition was held at the RCCI and included participants from universities and colleges from all over Rawalpindi. The NUST team secured 3rd position in the competition. The students representing NUST delivered a comprehensive business plan, "BIOGAS"; gas that is formed by the biological breakdown.

Mr. Main Ayaz Afzal, Managing Director Stock Exchange was the Chief Guest on the occasion.

RCCI President Manzar Khurshid Shaikh, Senior Vice President Ch. Pervaiz Ahmed Warriach, Vice President Ch. Nadeem Rauf and RCCI Executive Committee Members were among the speakers at the event. Addressing the participants, the speakers



stressed that education was the only answer to the multiple internal and external problems being faced by the country and urged the students to focus on their studies as that the country is in dire need of novel entrepreneurs and managers.

### EME faculty presents paper in 10<sup>th</sup> SGM

Mr. Saheeb Ahmed Kayani, faculty member of Department of Mechanical Engineering, NUST College of E&ME has presented a research paper entitled "Mangla Dam Raising Project (Pakistan): General Review and Socio-Spatial Impact Assessment" in 10th Swiss Geoscience Meeting, held on Nov 16-17, 2012 in Bern, Switzerland. His visit was sponsored by NUST.

### Paper presented at IEEE Infocom 2013

Dr. Ali Munir from NUST School of Electrical Engineering and Computer Sciences authored a paper in collaboration with external colleagues that they presented at 'IEEE Infocom 2013'. The paper's acceptance by Infocom made it the second-ever indigenous paper (all local authors) to be accepted from Pakistan. IEEE Infocom is the premier conference in networking and communication; it is ranked the second best conference in 'Communication and Networks' by Microsoft Academic Search, second only to ACM Sigcomm. His achievement received praise from his colleagues at SEECS as well as the Rector NUST himself. Dr. Munir expressed his gratitude towards administration of SEECS and NUST for the extensive research environment they offer.

### Faculty publishes articles in The Daily Business

Mujtaba Ikram's general article on 'Future of Renewable Energy in Pakistan' was published in 'The Daily Business' Newspaper on Nov 18. His second article 'New Trend of Photo Voltaic as Renewable Energy' was also published in the same newspaper. Mujtaba Ikram is a PhD student from School of Chemical and Materials Engineering (SCME), NUST who has formerly represented NUST and Pakistan in various international conferences in USA, Italy, Egypt and Pakistan.

**"Winners take time to relish their work, knowing that scaling the mountain is what makes the view from the top so exhilarating."** *Denis Waitley*



## Young alumnus of PNEC wins Rhodes Scholarship



Syed Ali Asad Rizvi, an alumnus of PNEC (Electronics Engineering 2006-2010), won the Rhodes Scholarship for 2012. The Rhodes Scholarship is an international postgraduate award for selected foreign students to study at the University of Oxford, widely considered the "world's most prestigious scholarship". Each year one student from Pakistan is selected for the scholarship. Ali Asad won the President's Gold Medal for securing the highest GPA at PNEC. He has represented PNEC in the Google 'International Design your Campus' Competition and was short-listed in the National Physics Talent Contest. He was elected Chairperson of the IEEE student branch for two consecutive years and organized the inaugural Karachi section student congress. He also represented the IEEE student congress in Singapore. After graduating from PNEC, Ali Asad joined Engro Fertilizers Ltd and worked as an Instrumentation Engineer for two years at Daharki Plant. Ali Asad Rizvi is currently pursuing a PhD in Engineering Science at the University of Oxford. He is particularly interested in pattern analysis of large data sets and would like find solutions to help the illiteracy problems in Pakistan.

## Research papers presented at ASME Int'l Mechanical Engineering Congress

Assistant Professor Muhammad Saif Ullah Khalid from Department of Mechanical Engineering, College of Electrical & Mechanical Engineering, NUST participated in ASME International Mechanical Engineering Congress and Exposition, held in Houston, USA from Nov 9 to 15. He presented two research papers, titled "GPU-based simulations to analyse the effect of heat source in mixed convection" and "Characteristics of flow past a symmetric airfoil at Low Reynolds Number: A nonlinear perspective". First paper was co-authored by Mr. Nabeel Qazi, graduate Student from NUST Research Center for Modeling & Simulation and Assistant Professor Dr. Imran Akhtar from College of E & ME, NUST. In the second research paper, Dr. Imran Akhtar was the co-author. His visit to USA was completely sponsored by NUST maintaining its traditions by providing faculty with opportunities for exposure in international forums.

## Young technologists shine at 13<sup>th</sup> SOFCOM

NUST SEECS Team participated in SOFTCOM 2012 held at GIK Institute on Nov 16 and outshone most of the other universities in the event. The team comprising of Hassaam Ali Khan, Junaid Malik, Umair Aftab and Fazal-e-Rehman Khan (all from BEE-1B) were the winner in the 'Startup Competition' as well as in 'Web App Development Competition'. In addition to these successes, the team finished the whole by being 2nd runners up in the 'Poster Design Competition'. In the Start-Up Competition, the idea titled 'Portal - Pie for All' was to introduce 'extensible low-cost computers' to the masses. The idea itself, the business plan, the efforts put in by the students and the standard of our home institution was much appreciated by the judges, industry



professionals and leaders as well as the GIKI's organizing committee. The task for the Web Development Competition was to develop an electronic year book within 9 hours. It allowed graduating students to manage their profiles and enabled all students and faculty members to comment on their profiles. The Poster Design Competition challenged the participants to come up with a poster that focuses on introducing an innovative futuristic new feature in a current electronic appliance. The students designed a poster for an iPad which supported 3D holographic display and was based on a smart-glass technology.

## NUST Student becomes youngest attendee of World Economic Forum

Malik Shaheryar, student of NUST, became the youngest person to attend the World Economic Forum (WEF) in Nov. He co-founded the Youth Economic Forum (YEF) in June this year

and represented his organization at WEF, where he highlighted the need for cooperation among South Asian countries, rural investment in India and Pakistan, financial literacy among high school students and inculcating entrepreneurial skills and risk-taking behavior among students during the event. WEF is an independent organization working for the improvement of economic situation in the world by engaging corporations and government agencies. Shaheryar said he is thrilled to be joined

by the likes of leaders such as Imran Khan and Jahangir Tareen. He said, "As the youngest participant, my aim is to convince leaders that the world cannot survive without engaging the youth in policymaking. We can serve as great assets for economic development and will benefit the most from a brighter future".

Member of YEF found this opportunity to present their project to the curators of the programme in Pakistan, and it was so deeply appreciated that it was sent to the WEF administration in Geneva.



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