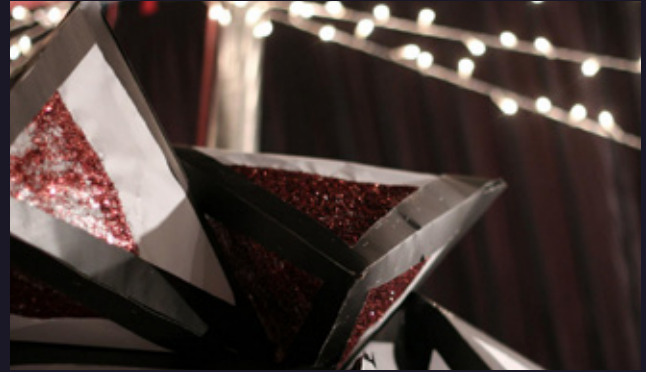


MONTHLY  
**NUSTNEWS**

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“You were born with wings, why prefer to crawl through life?” Rumi



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## Editorial Team

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**Editor:**

Maryam Khalid

**Assistant Editor:**

Faheem Khaliqdad

**Graphics & Layout:**

Kareem Muhammad

**Photography:**

Ghulam Rasool

**Student Reporters:**

Zaid Bin Khamis Butt, Anum Yousaf Khan,  
Taimoor Ahmad

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



## 01 Highlights

# International Symposium on Hepatitis B Virus-ASAB



Atta-ur-Rahman School of Applied Biosciences (ASAB) in collaboration with Pak-US Science and Technology Cooperation Programme, organized a one-day symposium on 'Hepatitis B Virus (HBV): Emergence and Surveillance' on April 2. The seminar highlighted leading-edge preclinical, translational and clinical research related to Hepatitis B in Pakistan. The symposium offered a multifaceted exploration of the virus and featured plenary sessions.

The opening speech held alarming statistics, emphasizing the gravity of the situation, with approximately 400 million people affected worldwide and over 300 million carriers. There were two technical sessions in the symposium including valued talks on different aspects of HBV associated hepatocellular carcinoma.

Dr. Aleem, Professor of Medicine at UCSD, introduced HBV Hepatocellular Carcinoma, followed by Dr. Iftikhar Qayyum of RMC Peshawar, who discussed the danger of virus persistence and how it might result in deterioration of liver function. Dr. Brig. Agha Babar Hussain, AFIP, Rawalpindi, moved the discussion to diagnosis, with molecular testing in chronic HBV. Dr. Abi-

da Raza of Noori Hospital, Islamabad, shed light on the ongoing research through clinical and phylogenetic studies. ASAB's Dr. Nasir Jalal and Ms. Zaira Rehman also delivered detailed talks covering research in treatment.

Dr. Amir Mehmood, Head of Vaccines Amsons, Rawalpindi, stressed on developing a cure for the threatening virus, mentioning how our country needs to strive to attain equal footing with global developments in HBV treatment and drug supply.

The closing ceremony was chaired by Rector NUST, Engr. Muhammad Asghar, who concluded the symposium on a positive note, mentioning how Pakistan had attained exemplary progress in fields such as IT, it certainly had the potential to combat an enemy such as HBV. He expressed delight at ASAB's educational programmes and encouraged their research endeavours. The final segment comprised shield presentations to guests and invited speakers. Not only was the symposium a focal point for knowledge transfer, it also provided an opportunity for NUST based researchers and Biotech companies to network and initiate collaborations.



## International Seminar on Issues and Applications of Modern Concrete Technologies



Against the backdrop of current developments in construction industry and innovation in concrete structures all over the world, Modern Concrete is steadily replacing conventional concrete. In order to get dense, durable and sustainable high strength concrete without increasing water to cement ratio, a number of admixtures, additives and supplementary cementitious materials are being used in concrete all over the globe. With a view to promoting awareness, transferring technology and benefitting from the work of reputed foreign researchers, an international Seminar on 'Issues and Applications of Modern Concrete Technologies' was organized by NUST Institute of Civil Engineering, SCEE on April 25.

Five speakers, including delegation of German Scientists headed by Prof. Dr- Ing Thomas A. Bier (Chair of materials section at TU Freiberg, Germany) from Technical University Freiberg, along with faculty members shared their research and findings with the audience through their lectures. Some of the main topics discussed on the forum were, Influence of Mixing Energy on the performance of 'High Performance Concrete (HPC)', The

Use of Stabilizers and Plasticizers in 'High Performance Concrete (HPC)/Self Compacting Concrete (SCC)', and others.

The Seminar attracted a large number of participants from all dimensions of Civil Engineering. It was a true gel of engineers from field, academia, consultants, managers and project engineers of private construction companies, Civil Engineers serving in State Organizations including FWO, NLC, Pakistan Railways, WAPDA, and Irrigation etc. Other than this, the students and representatives of Pakistan Cement Industry also took active participation in the Seminar.

The chief guest for the day, Dr. Muhammad Nasrullah Khan, Principal SCEE-NUST, expressed his views on effectiveness of such seminars and stressed on research-based interaction between technical universities and industry on regular basis. He also acknowledged Higher Education of Pakistan and Pakistan Engineering Council for encouraging the event by giving 1.0 CPD to all participants of the seminar. The event finally closed with presentation of souvenirs to the foreign speakers and certificates to the participants.





# PDC conducts workshop on MCQs-based testing system



Professional Development Center (PDC), NUST Institute of Leadership in Education (NILE), organized a workshop on 'Development of MCQs-based Testing System' for Command and Staff College Exam cell faculty, from April 15 to 19. The highly skilled trainers for this workshop were Principal NILE, Dr. Qaiser Hameed; Dr Shahid and Asst. Professor at Bahria University, Engr. Muhammad Asim Qureshi.

The chief guest for the opening ceremony of the workshop was Pro Rector Academics, Dr. Asif Raza. In his opening address, Dr. Qaiser laid out the general plan for the five-day workshop including its aims and objectives. Essentially the sessions were aimed to aid Command & Staff College to smoothly shift from a theory based to objective (MCQ) examination system. Col. Rehan of C&S college suggested that this would allow an institutionalized approach towards implementing examination system changes. The sessions were focused on developing a plan including development of a thorough MCQs based exam. Case studies were then discussed to promote group discussions

around different examination techniques. The final step was a test to pinpoint where the examiners most commonly err. Dr. Fouzan, from Data Security Department SECS and Asmaa Parachaa, LMS coordinator also joined the participants to acquaint them with the importance of data security and Learning Management System in NUST's examination system. The group also visited RCMS, NBS, SECS and Technology Incubation Centre at NUST.

The closing ceremony was chaired by Rector NUST, Engr. Muhammad Asghar. He stressed on the importance of building a comprehensive university, one that combines Technology, Social Sciences and Humanities, with NUST continually striving to reach such a level. 'Today we can't survive without technology' he stressed, adding, 'We can't live in isolation without establishing linkages.' Col. Rehan expressed his admiration for NUST's infrastructure, curriculum and graduate programmes. The workshop concluded with a certificate distribution ceremony.

## 'Literary Fridays' with NUST Literary Circle

NUST Literary Circle held 'Literary Fridays: Meet Greet & Enquire' at NUST H 12, Islamabad on April 5. The talk show invited the renowned poet Wasi Shah and the esteemed media personality, Kunwal Naseer.

Both the speakers emphasized on the importance of arts and literature in life; talked about the meaning of poetry, its relevance to modern life and all the adverse effects that modern commercialism has had on the arts and entertainment sector. Wasi Shah noted how metaphysics of sensitivity and realistic observation is the true life behind all poetry.

Kanwal Naseer regaled the audience with anecdotes about her life such as the inauguration of Pakistan Television. She talked about the remarkable variety and quality of artists and authors



that this land had produced and their contribution to our thinking and way of life. She quoted Rumi to explain her point in a beautiful way: "Why do you stay in a prison when the door is wide open?"

They both added, "we should carry our values and norms wherever we go. We should always remember who we are and where we came from." The students enjoyed the session immensely. 'Literary Fridays' is an initiative that provides a chance to the students to interact with their literary heroes.



## NUST Olympiad-2013

# Mega event leaves indelible imprint on Nustians

After months of buzz and anticipation, NUST Olympiad-2013 finally kicked off on April 18. A huge number of students from across the country turned up to be a part of the mega event. Rector NUST Engr. Muhammad Asghar graced the inaugural session as the chief guest and expressed his admiration over an extraordinary turnout of participants in the event showcasing "One Palette, Every Color!"

Olympiad-13 began with a reference to "The Hunger Games: Let the games begin. May the odds be ever in your favour!" Participant teams along with the faculty were then led to NBS ground, where the human flag of Pakistan was made. National songs were played out loud; the aura was so patriotic that a passerby couldn't go without being a part of the human Pakistani flag.

Soon there started opening as well as qualifying rounds of several events. Chess Championship gathered all chess jocks at

tion participants got strapped in by the security professionals and their skills were put to test. Practice sessions were held all day long for the fierce competition next day. Puzzles, Riddles, Rapid Fire, IQ tests and experiment rounds kept the minds busy in Master Mind. In Design and Glide, NUST Olympiad gave the teams a chance to design professional gliders, judged on time of flight, range, drawings, calculations and a viva conducted by a skilled fighter pilot.

The traditional *matkay* of Punjab and the hand embroidered goods of Balochistan; the flowing *ajrak* of Sindh and the handicrafts of Khyber Pakhtunkhwa; the atmosphere of the social event Lok Virsa screamed Pakistani culture. The showstopper: Ashraf Kamal, set the stage on fire with blazing flames and ended the evening with style.

The second day started out with 114 Olympians taken to the Lake view Park for the Paintball event. The knock-out tourna-



the elegant faculty café, and had them battling with both concentration and patience. Click Away by NUST Media Club was the ultimate test for all photography talents, with judges including director of the recent horror movie 'Siyaah,' and 'who doesn't like a good, fun-

filled game of futsal?' The turnout at the futsal event at the NUST Olympiad 2013 told a similar story with the competitions going late into the night. Play Ya Product was about creating catchy advertisements in any of the three categories: Social Cause, Entertainment and Entrepreneurship.

The Short Film competition required participants to make a video (5-8 mins) containing two things: water and a dialogue, 'who are you?' or 'tum kaun ho?' In the Wall Climbing competi-



ment began immediately afterwards and finally Team 527 stood out from the rest; they got hold of the flag within the first 30 seconds and won the game! A total of 12 teams qualified to the next round. Meanwhile at SCEE and SCME grounds, cricket matches were going on. So it was highly expected that a fine display of skill and passion would be seen. Every team was well aware that they had only six overs to make a mark, so singles were something they didn't go for and that is why seeing a ball



flying over the boundary was a usual sight.

The scorching heat saw practice climbs for participants at the wall climbing event near IESE. People climbed, stumbled, lost their balance, some managed to reach the top while others fell into the doom of defeat. 10 out of 26 female contestants were chosen for the final round after arduous climbs. The boys then put their speed and agility to the test with 10 out of 30 proceeding to final rounds. The finals were even more challenging and by the twilight, we had our winners for the event.



With these thrilling events, the parliamentary debating might sound boring but for those who have been a part of it or have observed it would know that there is hardly any other form of debating that is more active than parliamentary debating. In SEECs, IEEE got the ball rolling on the much anticipated e-gaming event, which had an unexpectedly large turn-out, attracting avid gamers from all over the capital and beyond, including a female player for CS. Meanwhile, the lab next door boasted off a much more flamboyant atmosphere. Here the FIFA and DOTA matches were taking place.

By the second day of the chess championship the players had made a repu-

tation amongst them and developed camaraderie. After surmounting two more challenging rounds the two players that made it to the finals were Jahanzaib Sohail and Fazallullah. A close final was rightly expected with many players staying back to see who would be the champion after the allotted 50 minutes. The clock was still ticking when Fazallullah forfeited making Jahanzaib Sohail the champion of the NUST Chess Championship.

Charcoal drawing event's initial warm-up session was a big hit. Various props (such as chairs, boxes, bright yellow dupattas and skeleton limbs) were brought into the middle of the room for all the participants to practice their observation skills on for 10 minutes. The second part of the event comprised drawing a model using the materials provided, first from a fixed angle, and then later from any strategic angle within the room that the participants desired. Literary Death Match saw eliminations and appraisals of participants as they moved onto the second

round, i.e. the poetry recital stage, and then Round 3; the creative writing round. For the final round, the participants had to put their creative writing skills to use by coming up with an original piece of work within ten minutes, and then present it to the audience and judges.

The social event for day two kicked off with *Hum Main Hai Hero's* finale. Its first act being a male and a female duo while the second act started off with a very innovative performance where the performers introduced the beat and the crowd enthusiastically joined in while both the performers sang a medley of English and Urdu songs. The third act, a play revolved around an actor, portraying a multiple personality disorder. It was powerful and bold and kept the audience enthralled. Fourth Act was yet another comedy play from a team that belonged to NUST that revolved around a man that had been robbed on the street illustrating his hi-

larious encounter with the police. The concluding act was performed by Ahmed Mujtaba, again from NUST, who successfully gave an electrifying dance performance on a mix of songs.

And finally, 'Akkar Bakkar' took away the breaths of the audience. The play was written and directed by Shah Fahad who himself was the highlight in the acting department. The team was working under the banner of Dramaducation Productions. The team had successfully executed six shows in Lahore prior





to their performance. With this, day 2 of the NUST Olympiad ended on a festive note.

Day 3 was the last day for most of the events. Finals for Play Ya Product were scheduled for this day as well as the paintball competition. At paintball, teams from SMME and SADA made it to the finals and after a nail-biting match and a strong performance from both teams, the team from SADA won the event. At IESE, H-12, whole day was spent for NUST Endowment Fund raising at the Wall climbing where anybody could walk in and climb the wall. At the IEEE gaming, as the tournaments boiled down to the final rounds, the mood grew even tenser. Ultimately for every game, one team exploded in victorious celebration while another gloomed over defeat. Meanwhile, participants waited anxiously, fidgeting in their seats, for the judges who would review their videos and decide their fates at the Speed Filming Competition. These films were also screened along with screening of photography competition on the 4th and last day of the Olympiad where they received a lot of appreciation by the attendees.

Basketball 3 on 3 was at its peak too. All the teams came in with their great enthusiasm and showed off their talent in a much disciplined manner. A great degree of respect was shown by all the teams for their opponents. On the other side, second round of Super Sixes cricket was underway amid high level of enthusi-

the work of participants. With “Go Green, Think Green, Act Green” call, Green quest also began as a fun-sized contest to spread awareness about serving our mother earth. The state of our planet was brought to focus through all the activities and tasks in this event. It was quite astonishing to see the enthusiasm among the attendees to go green and to save green. Reuse, Reduce, Recycle were the key words. The Goth-themed Dinner was the perfect end to another long day of fun at the Olympiad.



asm and cheering from the crowd. The finals of the cricket were played on the last day with cheering on every ball.

At SADA, Graffiti kicked off as the clouds covered the sun and the contestants started to splatter their ideas and feelings on an 8 by 8 feet canvas. The judging criteria for graffiti were the content, neatness, and creativity. Saad Qasmi, from NCA Lahore, was the judge for this event who seemed pretty astounded by

Everything from the attendees' dresses to the decorations diligently worked on by the décor team reeked of Gothicism. For entertainment purposes, incredibly amusing impersonations of several politicians were carried out, and awards were given to the first place winners of various events from the past 3 days.

Refashion Show was the highlight of last day. Limited quantities of ribbons, buttons, glitter and sequins, all in different colors, following the central theme of NUST Olympiad'13: one palette, every color, were provided to the contestants. The basic concept of the competition was to infuse fashion and design with the idea of reuse. Ms. Nudrat Gilani, Principal Pakistan Institute of Fashion and Design (PIFD) Islamabad; Ms. Erum Khan, a renowned Pakistani Fashion Designer; and Ms. Anber Javed, a fashion blogger at A Wardrobe Affair judged the competition that was filled with creativity. The final gathering of the NUST Olympiad 2013 was the closing ceremony held at NIT, SCEE Auditorium in which souvenirs and tokens of appreciation were given to the hardworking team and the winning team of NUST Olympiad by Chief Guest, Principal SCEE, Dr. Nasrullah Khan. With this ended the greatest event of the year but it also promised a better and larger event for next year.



## NUST leads USA-Pakistan Higher Education Initiative on Civic Engagement and Social Responsibility



NUST has become a part of the USA-Pakistan Higher Education Initiative on Civic Engagement. It brings together five US universities and five Pakistani Universities to discuss ways, learn, evaluate and share the methodologies and strategies required to encourage community service in our societies at different levels. With NUST being the pioneer of this project from Pakistan and George Washington University from US, this elaborate project has started to take shape.

In March 2013, a 16-member delegation of Pakistani Universities namely NUST, DUHS, FJWU, QAU and UVAS went to participate in the orientation seminar followed by respective partner campuses visits in the USA. Pakistani teams spent about one week to learn more about civic engagement in USA. As a result of this visit, on April 26, NUST organized the first USA-Pakistan Higher Education Initiative on Civic Engagement conference in Pakistan. NUST invited the representatives of all partner Universities in Pakistan and took the initial step towards the expansion and implementation of this project. The conference was chaired by Rector NUST Engr. Mohammad Asghar and was attended by esteemed guests: Dr. Susan Stroud from the United States, a global leader in the field of youth civic engagement, Dr. Shamash Kassim-Lakha, who is an executive member of the Steering Committee of the Talloires Network and is also associated with the US-Pak Civic Engagement Project as an advisor, Mr. Mukhtar Ahmed from HEC, Mr. Rob from the US Embassy, representatives from partner Pakistani Universities DUHS, FJWU, QAU and UVAS and NUST team.

The conference opened with the welcome note by Rector NUST who thanked the esteemed guests for their participation and support and appreciated the efforts of team NUST and the NUST community service club with its vibrant and young members.

He also expressed his gratitude towards the partner Universities and stressed on the role ICP was playing in this project and the importance of sustainability in order to further expand it. After the welcome note, representatives from all 5 partner universities shared their perspective on community service initiatives and discussed their learning outcomes. Dr. Irtiza Ali Shah from NUST, Dr. Umer Farooq from DUHS, Dr. Humaira Ahmed from FJWU, Dr. Etzaz Ahmed from QAU and Dr. Aneela Durrani from UVAS were among the five presenters. Tehreem Saifey, Project Director also gave a presentation on the Talloires Network at Tufts University. She shared the history, mission and vision of this vast network that is spread across 288 countries and 6 continents.

Towards the end of the session, Dr. Susan Stroud, US embassy's Cultural affairs representative, Robert Raines, Dr. Shamsh Lakha and Mr. Mukhtar Ahmed from HEC, all addressed the participants and expressed their appreciation for the partner universities and ensured their full support. They emphasized on the importance of faculty motivation, student involvement and community partners to ensure the success of this great initiative.





## Special Education Seminar held

A seminar on special education was held on April 23 where Ms. Anita R. Florijn, the Project Director of Family Educational Services Foundation addressed the audience at SEECs. The event was organized by Corporate Advisory Council (CAC) in collaboration with NUST Community Service Club (NCSC). The chief guests on the occasion were Mr. Irfan Akhter, Co-Chair for the NUST CAC Social Sector Committee and Prof. Dr Arshad Ali, Principal SEECs.

Ms. Anita started the proceedings by asking audience to jot down their imperative response that they associated with the



word 'disabled'. Attendees responded with varying answers such as low self esteem, improper mental growth, speech and hearing impairment and many more. After this activity, she provided an overview of the basic types of disabilities, both medical and social and classified the responses into these two fundamental categories. Afterwards, she elaborated the categories further and presented an insight into lesser familiar disabilities such as autism, ADHD and dyscalculia.

Rounding off the seminar, Ms. Anita discussed how disabled people should be accepted in the society and the public administration should take steps to integrate them with able society. She emphasized that these seminars were helpful for the disabled community as they created awareness among general public. At the end of the session, Faculty Sponsor NCSC, Dr. Iriza presented a memoir to Ms. Anita R. Florijn.



## NUST EATS

NUST BioReach Society at Atta Ur Rahman School of Applied Biosciences (ASAB) went by the saying 'Let food be thy medicine and medicine be thy food' as they launched their campaign 'NUST EATS': a week-long celebration on the importance of nutrition. Bio-Reach Society recognized the fact that malnutrition in developing countries was cited as a growing global public health concern. Hence the campaign aimed to eradicate dietary imbalances through spreading awareness.

Through public service messages, posters, active social media updates and communications, the campaign focused on mineral deficiencies, healthy weight loss regimes, exercise and extensive food profiles. Different exercise and calorie charts were put up in hostels, gyms and cafes so that students could get infor-

mation about good diet and exercise plans. Free food was understandably one of the major attractions for students to focus their attention to Bio-Reach Society's message.

The final addition to this drive was a seminar by Dr. Angela-Marie Sadiqua, Clinical Nutritionist of the Pakistan Cricket Board on Sports, Nutrition and Weight loss management and also a talk by Dr Mohammad Moaz on Vitamin D deficiency and milk adulteration in Pakistan. Many misconceptions were eliminated as students actively inquired the nutritionists regarding general dietary habits. The students and faculty believed they had attained the intended extract of the campaign i.e. infusing a concept of 'think and act, rather than just eat' where individuals would focus on nutritional significance and impact of their dietary intakes.





## Eye Donation Awareness Campaign at H-12



NUST Community Service Club has collaborated with Rawalpindi Eye Donors Organization (REDO) in order to raise awareness about eye diseases and the need for the donation of eyes for cornea transplantation. Recently, an 'Eye Donation Awareness Campaign' was run in H-12 in which members and volunteers of the club motivated the students, faculty and residents of the H-12 campus of NUST and distributed more than 1000 will cards for eye donations.

The objective of this campaign is to create mass public awareness and to bridge the gap between demand and supply of cornea and encourage people to come forward and pledge their eyes for donation after death. Any person irrespective of his age, sex, social or religious status can pledge and donate his eyes. Persons wearing glasses or having undergone any type of eye surgery can also donate their eyes.

Donation of eye is considered prohibited, and unfortunately, a large number of misconceptions are associated with it. Considering a large population that is completely or partially blind, that could be treated by corneal grafting, it is necessary that solid steps be taken to make sure that such misconceptions are



clarified. REDO has done above 1200 successful corneal grafting, and provides its services free of cost to the poor. NUST in collaboration with REDO wishes to motivate and encourage people to participate in this noble cause.

## C<sup>3</sup>A strives to minimize suicidal behaviour in teens

A team of psychologists from NUST Centre for Counselling and Career Advisory (C<sup>3</sup>A) interacted with the faculty members from different schools/institutes to discuss the teacher's role in youth suicide prevention. The prime objective of these lectures was to educate them about mental health and how they could play a proactive role in promoting psychological well being of students. Youth suicidal tendency and behaviour is becoming a growing concern for families in today's world. The lecture was aimed at familiarizing the teachers with the problems leading to suicidal thoughts and measures that could be taken to prevent it. The lecture was focused to enable the faculty members to identify the students who might be at high risk. At the same time, it was aimed to inculcate various management skills in teachers in order to handle and help those students who are vulnerable to this risk.



## NUST faculty represents Pakistan in SAARC gathering in Sri Lanka

Dr. Salma Siddiqui, HoD, Department of Behavioral Sciences (DBS) and Dr. Rubeena Kidwai attended a five-day training workshop on 'Advocacy Training' on International (IASC) Guidelines for Mental Health and Psychosocial Support in Emergencies which was held in Hendala, Sri Lanka. The two NUST faculty members represented Pakistan in a gathering of participants from various SAARC countries. Focus of the workshop was on IASC guidelines, procedures, processes and methodologies to advocate for inclusion of psychological wellness in various aspects of emergency or disaster management. Future plans following the workshop are to begin advocacy work within Pakistan.



## Two-day workshop on Supply Chain Management



Professional Development Center, a constituent of NUST Institute of Leadership in Education, organized a two-day workshop on 'Supply Chain Management' from April 26-27. The resource person on this occasion was Mr. Asher Ramish, a Corporate Trainer and Mechanical Engineer. In his opening remarks GM PDC, Mr. Imtiaz Ahmed welcomed the participants. Dr. Riaz, Director Research, was invited as the chief guest in the opening session of the workshop where he introduced the audience to NUST, its aims and massive progress since its conception. The workshop saw attendance from diverse institutes including PAF, GHQ, NDC, NUML, Air University and NUST institutions. It offered to not only impart knowledge on importance of Supply Chain Management (SCM) but also to equip attendees with the tools necessary to design and implement this system to maximize their organization's competitiveness. Mr. Ramish described SCM as 'a technical subject whose base lies in something as simple as relationship management'. Through intensive lectures, case studies, professional games, group tasks and hands-on skill

development exercises, Mr. Asher talked about concepts in Collaboration, Planning, Forecasting and Replenishments (CPFR), Role of 3PL and RFID and integration with IT.

"Should we be contented with 80% individual efficiencies?" he questioned the audience, stating that they amounted to a very low over-all efficiency of the organization and that we should continually strive for 100%.

Registrar NUST, Mr. Salim Daud, chaired the closing ceremony as the chief guest and distributed certificates among the participants.



## CES attends workshop at UoA, Faisalabad

CES faculty member, Dr. Ehsan Ali participated in the workshop on 'Construction, Operation and Maintenance of Biogas Tube wells' at University of Agriculture Faisalabad on April 13. The workshop was organized by The Field Wing of Agriculture Department, Government of Punjab in collaboration with the University of Agriculture Faisalabad. Its primary objective was to impart training to beneficiaries of bio-gas plants for operation of diesel tube wells on dual fuel system (diesel/biogas). The Workshop attendees included farmers, engineers, experts of biogas and prominent researchers.

Dr. Ehsan had the opportunity to learn from Punjab Agriculture Department's fuel efficient project titled "Provision of Biogas Supplemented Tube wells for Irrigation Purposes in Punjab". He gave his own input as to how the technology could be further modified for Pakistan's climate, by maximizing its yield and making it long lasting. The workshop provided a deep understanding of the project so that it could be put into operation at NUST if needed.

## CES students visit NCP, NINVEST research facilities

Students of MS and PhD programmes at Center for Energy Systems (CES), NUST, visited National Center for Physics (NCP) and National Institute of Vacuum Science and Technology (NINVEST), Islamabad, on April 2. Accompanied by their course instructor, Dr. Zuhair Khan, they examined different ongoing research activities in Thin Film Processing, Vacuum Systems, Ion-Solid Interactions and Nano Technology.





## 02 Visits

### Ambassador of Ukraine

Ambassador of Ukraine to Pakistan, Mr. Volodymyr Lakomov along with the first Secretary at Embassy of Ukraine. Mr. Oleksandr Marchenko visited NUST on April 9. Upon arrival, the delegation met with Rector NUST Engr. Muhammad Asghar and discussed matters of mutual interest. Later, the delegation was given a brief presentation on NUST and its various programs. The delegates also visited NUST Business School and NUST Centre for Energy Systems where they were conducted to various state-of-the-art labs.

Dr Bilal, Director CES, briefed the visitors about the industry sponsored and applied projects being conducted by the CES faculty, particularly the scaled up algae production using the 500 L pilot plant fully operational at NUST. Dr. Qamar Malik, Professor Industry-Chair also explained the cultivation of algae through various types of photo-bioreactors and production of biofuel from the cultivated algae; he further added that current biofuel park is powered by Solar Energy and that the algae cell count in the current plant had exceeded the highest reported



to date. The Ambassador expressed keen interest in the Super Critical Fluid Technology functional at CES NUST and gave his assurance to support a conference inviting Ukrainian experts to forge possible collaboration with NUST in the energy sector. Mr. Volodymyr expressed his desire to strengthen and formalize the relationship between the Ukrainian universities and NUST by signing agreements of understanding.

### Chinese Delegation

A three-member delegation from China headed by Mr Song Jia Jun, Director China and Mongolia Science and Education Exchange Centre, visited NUST on April 17. Briefing was given to the delegation about establishment, institutions, programs, research initiatives and future plans of NUST followed by a detailed question and answer session. Both sides agreed to sign MoU between the two Universities in 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.



### German Delegation visits SCEE

A delegation of German scientists headed by Prof. Dr. Ing Thomas A. Bier (Chair of Materials section at TU Freiberg, Germany) from Technical University, Freiberg paid a five-day visit to NUST Institute of Civil Engineering (NICE), SCEE from 23<sup>rd</sup> April to 28<sup>th</sup> April 2013. The delegation took a tour of NICE, meeting Head of Departments and Associate Dean NICE as well as Rector NUST.

On 25<sup>th</sup> April, the delegation spoke at the International Seminar on "Issues and Applications of Modern Concrete Technology" at NIT Auditorium. Discussions regarding future collaborations, research reviews of students and postgraduate students exchange were also part of the visit.



## Visit to Sialkot and Lahore composite industries under DelPHE project



A team comprising Maj Gen Obaid Bin Zakria, Commandant NUST College of Electrical & Mechanical Engineering (CEME), Dr. Alam Khan and his team visited numerous industries in Sialkot and Lahore from March 20 to 30. Among the industries visited were Pakistan Hockey Manufacturers & Exporters Association, Ihsan Sports Sialkot, Business and Engineering Trends (BET), Lahore and Fiber Craft Industries. The visit was funded by DelPHE project,

The event was organized by Department of Mechanical Engineering, NUST College of EME. This was in the backdrop of the Pakistan Composite Show held in Dec, 2012. The discussions included internships, critical problems being faced by the industry, joint collaboration, setting up of the "National Advanced Composites Research and Product Development Centre," establishing a composites network, and reaching out to help the industry in every way possible. This visit was also necessitated so that prior to finalization of the working paper/recommendations to be sent to the Government, further inputs could be obtained.

## Foreign Services Academy Delegation

A 32-member delegation from Foreign Services Academy (Ministry of Foreign Affairs), Islamabad, comprising diplomats of 24 countries visited NUST on April 11. The delegation was led by Director Programme, Dr. Faisal Aziz Ahmed. The delegation was briefed about establishment, institutions, programs, research initiatives, industrial and University linkages and future plans of NUST. The delegates appreciated NUST's Infrastructure and facilities provided for its faculty and students to ensure quality teaching, learning and research. Later, the delegates were given a guided tour of the University. They visited NUST Business School (NBS) and NUST Centre of Innovation and Entrepreneurship (CIE), where they were conducted to various sections and facilities. The delegates from different countries showed keen interest in establishing institutional partnership between NUST and the universities of their respective countries for collaboration in the areas of joint research, fellowships and admissions at NUST.



## University of Glasgow delegates discuss Scholarship possibilities

On April 11, Ms. Ketty Scott from the University of Glasgow International Students' Office visited NUST Schools and Centre for Energy Systems accompanied by Mr. Munir Lone, MD Campus UK. She gave a detailed briefing on scholarships at the esteemed University of Glasgow, fourth oldest in the entire English teaching world, founded in 1451. During the presentation, Ms Scott spoke of the opportunities for the aspiring and talented students of NUST to study abroad. Furthermore, she presented an overview of generous scholarships offered by the University of Glasgow for Pakistani and international students and NUST students to apply for it. Official representatives of the University extended their full support in internationalization of the higher education through institutional collaboration to facilitate student placement.





## 03 Updates from Schools

### 1st UG Convocation of SCEE and ASAB 201 engineers and biologists graduate with a promising future



A graceful 1st undergraduate convocation ceremony of School of Civil and Environmental Engineering and Atta-ur-Rahman School of Applied Bio-Sciences was held on April 17 at the H-12 campus of NUST. Rector NUST, Engr Muhammad Asghar graced the ceremony as the chief guest. As many as 201 students were conferred bachelor degrees in the disciplines of Civil Engineering, Environmental Sciences and Engineering and Applied Bio-Sciences (25).

Gold Medal and Certificates were awarded by the chief guest to the students for their distinctive achievements. President's Gold Medal and Certificates were awarded to Abeera Ayaz Ansari (Environmental Engineering), Zain Maqsood (Civil Engineering), Rabia Shakeel (Best Performance in Research) and Zahra Zahid Paracha (overall best performance in academics). Rector's Gold Medal and Certificates were bestowed upon Talha Zubair (Environmental Engineering) and Muhammad Arsalan (Civil Engineering).

Speaking at the occasion, the Rector NUST, Engineer Muhammad Asghar acclaimed the impressive performance of the students and extended his heartiest felicitations to the esteemed faculty, graduating students and their parents. He further said

that graduates from NUST play a significant role in strengthening the country at socio-economic fronts. Additionally, he said that the University's collaboration with reputed foreign universities and linkages with local industries had contributed a great deal in strengthening national economy. He also appreciated the role of the Higher Education Commission in reinforcing quality criteria and promoting research culture within Universities. Engr Muhammad Asghar also lauded the outstanding contribution of SCEE and ASAB in attaining high rank for NUST in a very short span of time. He urged the graduating students to adopt hard work and Rizq-e-Halal as the cardinal principles of their lives while pursuing their future career.

Earlier speaking at the occasion, Dr Nasrullah, Principal SCEE highlighted the achievements of the school during the recent years. He further said that SCEE aimed at emerging as a leading research and development institution in the civil, environmental, transportation and geological sectors. Principal ASAB, Dr Ashraf, also presented a brief report on the School's accomplishments highlighting its contribution in the fields of applied biosciences.





## 4th UG Convocation of NUST Business School

# 240 business graduates receive degrees



A graceful undergraduate convocation ceremony of NUST Business School was held on April 27 at the H-12 campus of NUST. Mian Muhammad Mansha, a renowned industrialist and Chairman Nishat Group and MCB, graced the ceremony as the chief guest. As many as 240 students were conferred bachelor degrees in the disciplines of Business Administration (223) and Bachelor of Science in Economics (17).

The ceremony was attended by distinguished guests, graduating students, their parents and faculty members. Gold Medals and Merit Certificates were awarded by the chief guest to the students on their outstanding performances in their respective fields. President's Gold Medal and certificates were awarded to Zahra Naeemi (BBA), Neelam Ejaz (BBA), Walia Jamshan (BBA) and Zahra Bilal (BS ECO). Merit Certificates were bestowed upon Mehik Firdous(BBA), Kinza Sohail(BBA), Bushra Amin(BBA), Amina Ejaz(BS ECO), Kanwal Ashraf(BBA), Fareeha Shahid(BBA), Ayesha Javed (BBA), and Amina Batool (BS ECO).

Speaking at the occasion, Mian Muhammad Mansha commended the remarkable stature NUST had acquired in a short span of time and extended his heartiest felicitations to the esteemed faculty, graduating students and their parents. He further said that the epicentre of the world had shifted from Europe to Asia. He asserted that Pakistan had abundant resources in all sectors; the only need was to explore and utilize them to the fullest. Mian Muhammad Mansha said that graduates from NUST had a leading role to play in uplifting the nation's economy. He also lauded the outstanding contribution of NUST Business School in taking NUST

to the top rung of the ladder.

Earlier Rector NUST in his address said that 72% of the NUST student community belonged to the lower middle class which was the testimony of the transparent merit policy of NUST. He further said that the students' strength had doubled in the recent years and also briefed about the role of NUST in creating new jobs for the youth. He also highlighted some of the major plans NUST intended to initiate in the near future.

In his opening address, Dr Ashfaq, Principal NBS, said that NBS had developed to be a thriving centre of excellence. He also briefed about the role of NUST Business School in developing University's linkages with local industries and shared the success story of the school during the recent years. He further said that NBS aimed at emerging as a leading institution in promoting innovation and entrepreneurship.





# First UG Convocation of SCME, NUST 145 receive engineering degrees



As many as 145 graduates received degrees in the disciplines of Chemical and Materials Engineering at the first Undergraduate Convocation of School of Chemical and Materials Engineering (SCME), held at the main campus of the University on April 30. The august ceremony was graced by Lt. Gen (R) Naeem Khalid Lodhi, Managing Director Fauji Fertilizer Company, as the chief guest. Besides parents, students and faculty, a large number of distinguished guests were also present at the occasion.

President's Gold Medals were awarded to Engr. Nusrat Ali Shah and Engr. Sahir Naqash in the disciplines of Chemical and Materials Engineering respectively. Whereas Rector's Gold Medals for the best projects were awarded to Engr. Sannan Yousaf Toor and Engr. Abdul Qadeer in Chemical and Materials Engineering respectively.

While delivering the convocation address, the Managing Director FFC extended his heartiest felicitations to the graduating students, their proud parents and the esteemed faculty. He said that after completing their formal education, the fresh graduates were then on the threshold of their professional careers. "I can see prospective industrialists in you, and hope that you would take on professional challenges willingly only to transform them into golden opportunities," the chief guest advised the students. He was also all-praise for the fast-paced growth of SCME, terming the school a glorious addition to NUST. He maintained that NUST and FFC were working in a close and productive partnership with each other, adding that such academia-industry linkages would augur well for the economic growth of the country. In his address, the MD also invited the Chemical Engineering Gold Medalist to join the renowned fertilizer company.

Rector NUST Engr. Muhammad Asghar also gave his insightful address at the occasion. He said that it was indeed a matter of



great pride for NUST to have been able to produce its first batch of Chemical and Materials Engineering graduates. He asserted that School of Chemical and Materials Engineering was undergoing a rapid evolutionary growth and was offering Undergraduate, MS and PhD programmes. He said that Centre for Energy Systems had sprung out of SCME, which was also progressing along well. He felt elated to mention that CES had turned out to be a centre of excellence in the energy sector in Pakistan. At the end, the Rector extended his gratitude to the esteemed chief guest for having spared time out of his pressing engagements to grace the auspicious occasion.

Earlier, Principal SCME Dr. Mujahid welcomed the gathering to the maiden convocation of the School. After felicitating the graduating students, he said, "I hope you have not cultivated the illusion after acquiring engineering degree that you have completed the learning process." He urged them to capitalize on the acquired knowledge and utilize their energies in exploring new knowledge through research. The Principal also briefly touched upon the genesis and academic growth of the School.



## Seminar on Asian Century: Opportunities and Challenges

The students of IGIS attended a day-long seminar on 'The Asian Century: Opportunities and Challenges.' Welcome address was given by Lt. Gen Nasser Khan Janjua, President National Defence University NDU, while the keynote address was given by the Ambassador Inam Ul Haq, Former Foreign Minister of Pakistan. The speakers for the day were Mr. Fazal-ur-Rehman; Former Director China Centre, Institute of Strategic Studies, Islamabad; Ambassador Ashraf Jehangir Qazi, Former Ambassador China & USA; Dr. Muhammad Khan, HoD IR Department, NDU; Ambassador Jalil Abbas Jilani, Foreign Secretary of Pakistan and many more from various think tanks and academia.

The theme of the presentation was to academically grasp and better understand the dynamics, extent and emerging patterns of the ongoing transformation of the world's traditional and



non-traditional security architecture. This seminar provided a good exposure for the students to identify the economic, cultural and strategic dimensions of Asia in general and Pakistan in particular.

## SMME students present papers in 1<sup>st</sup> Renewable Energy Show, HITEC

NUST School of Mechanical and Manufacturing Engineering (SMME) consistently endeavors to broaden the horizons of its students and encourage them to participate in the esteemed fora. In this pursuit, students and faculty from SMME participated in the "1st Renewable Energy Resources Show 2013" that is first of its kind in Pakistan. HITEC University, Taxila Cantt and Renewable and Alternative Energy Resources Association of Pakistan (REAP) arranged this Energy-Show.

There was a session of paper presen-

tations at the show and out of the six speakers that presented, three were from NUST. Lecturer Waqas Khalid from SMME represented his master's thesis on the topic; Potential of Energy usage in refrigeration system: Ice Rinks. Two groups of final year students namely, Zohaib Rafiq, Rai Junaid, Faran Baig and Umair Saleem, Abdul Rafay and Ali Abbas presented posters on space heating and cooling through geothermal energy and Solar Concentrator at the show respectively. The projects were commended by the judges and president REAP encouraged the students by assuring them that their project would get the necessary funding to convert it into a working model. The interaction with the industrialists prepared the students for the practical life and gave a better perspective of the advancements in the field of renewable energy.



## Seminar on Fire Safety and Disaster Management

NUST Community Service Club organized a seminar on 'Fire Safety and Disaster Management' at RIMMS on April 5 to help students identify and eliminate potential fire hazards in their surroundings, and respond correctly in case of a disaster.

The seminar was organized in association with Rescue 1122 fire and emergency department. An expert from Rescue 1122 dwelt extensively on the



various aspects of modern techniques of fire mitigation and management. He demonstrated the correct method of using a fire extinguisher and stressed upon the importance of having fire extinguishers readily available at public buildings and dwellings. The speaker said the most common causes are careless smoking, overloaded electrical service and heating problems. He also cited the recent incident of Karachi Garment Factory Fire, highlighting the cause of the fire and outlining various preventive practices which could have minimized the damage. At the end of the session, Dr. Irtiza, Faculty Sponsor NCSC also briefed on modern trends of fire detection, protection and suppression systems.



## Seminar on Safe blood Transfusion



The general public holds doubts regarding safe methods of blood donation and transfusion. As a result of constant shortage of blood in the hospitals and blood banks, one finds difficulty in access to blood at the time of need. To highlight this issue and to resolve the misconceptions about blood donation and its transfusion, NUST Community Service Club held a seminar on April 12.

Project Director of Safe Blood Transfusion Services Program (PIMS), Dr. Hassan Abbas Zaheer talked about the global and national scenario of blood transfusion, voluntary blood donations and strategies for maintaining a sustainable blood bank. Dr. Hassan stated that 1-3% of the population needs to be donors in order to maintain an adequate blood supply. In Pakistan, of an estimated demand of 3.2 M units, only 1.8 M units are collected, so there is a constant shortage of blood for the people who need it. Also, the collected blood is not divided into components to be used for three different individuals, rather, is directly transfused in the patient after screening. As a result, only one life is saved instead of three. The speaker also presented a plan of central blood bank of Islamabad being established. The seminar was part of the Community Service Course offered by NCSC. Internship opportunities are also being created for the students in the Central Blood Bank Project in the field of marketing, IT and diagnostics.

## Seminar on 'Understanding Community'



NUST Community Service Club organized a seminar titled 'Understanding Community,' and invited Dr. Patricia Omidian, an anthropologist from USA. She discussed her experience of working with different communities. She kept the audience engaged in an interactive session in which students were asked to come up on the stage if they considered themselves a Pakistani. Then she divided them into groups based on their ethnicity: Punjabi, Baloch, etc. The activity was done to give a practical example that people belonging to different cultures and regions could live together in peace and harmony. She emphasized the importance of understanding and respecting the differences of each community, creating an environment in which people could live amicably. She pointed out that the world has become a global village in which no society can live in isolation; and therefore, we should try to blend in while keeping our heritage intact. In order to achieve this, she said, one needs to 'listen.' She spoke about how often people just want to tell their side of the story but failed to realize that listening to others is very crucial as well. The seminar concluded off with the presentation of souvenir to the speaker.

## Training workshop on manufacturing of composites

A training workshop was organized by department of Mechanical Engineering at NUST College of Electrical and Mechanical Engineering on March 26, as a sequel to the composite show and policy dialogue held in the College on Dec, 2012. The session was attended by several prominent industrialists, government officials, researchers and stakeholders, who presented their viewpoints and a need was identified for a national policy for the promotion of composite materials. The aim of the present session was to facilitate the relevant industry and create awareness about the vast potential of the composite products. During the event, technical lectures were delivered followed by practical demonstration.

Dr. Laraib, an eminent figure of the composite arena gave an informative talk on the composite manufacturing using vacuum infusion process during the workshop. The information was shared to enhance their knowledge as well as to assist the industrialists in venturing further to a less explored market. He shared his belief that the composite materials and their prod-

ucts are a multi-million industry with room for exponential growth. During the workshop it was discussed that Pakistani industries could effectively contribute to this rapidly growing market and earn foreign revenue with a little technological effort.







## Hoisting Human Flag

Team of NUST Bazm-e-Pakistan organised this event on April 18, where as many as six hundred Nustians and Olympiad participants gathered. All the participants were eager and excited to be a part of the big celebration, to show their love for Pakistan. Green and white charts were distributed among the participants standing in their respective grids who held them high forming the Pakistani flag pattern. A wave of patriotism swept in the crowd, videos were recorded and the national anthem was played.

## Ufone Summer Internship Programme at NBS

Mr. Sahibzada Junaid, Senior Executive Human Resources visited NBS on April 15 to roll out campus drives for Ufone's Summer Internship Programme (SIP), 2013. He briefed the students about the SIP Assessment test in NBS Seminar Hall. Later, online test was held in NBS Language and Research Labs, where 110 students of MBA, BBA and BS Economics participated. 27 candidates were called for interview on April 17 and the names of selected candidates were to be shared by 15th of May, 2013. Interns' orientation will be in 1st week of June, 2013 and Internship tenure is between 1st June and 30th August, 2013. Last year 10 students of NBS were selected for internship in Ufone and four of them were declared best interns in Marketing (Value added Services), Corporate Strategy & PMO, Human Resource and Sales. These students were given certificates by CEO of Ufone in a ceremony held in Marriott hotel Islamabad.



## University-Industry interaction



To promote better relations between industry and the NUST populace, Industry Liaison Office (ILO) conducted three career development sessions. Teams from Engro, Telenor, and Descon engaged over seven hundred interested students to teach them about skill building and confidence tips for the professional world.

Moreover, recruitment drives were also held for the graduating students and those looking for internships. Companies which came to NUST for recruitment drives in the past month included KESC, Ebryx, 4M Wireless, Lotte Pakistan, Engro, Descon, Colgate, Savoi, Microfinance Bank of Pakistan, and Techlogix. Over nine hundred students competed for about four hundred and fifty potential job and internship opportunities in the month of April, 2013. Further, a marketing campaign was also carried out for Mobilink. In an effort to promote their brand image, Mobilink in collaboration with the ILO office set up a booth at Concordia 1. They gave out passes to around hundred students for movie at 'The Arena', Bahria Town, Rawalpindi.



## Interactive session on 'The NUSTIAN'

Editor The NUSTIAN, Deputy Director Student Affairs Mr Ehsan-ul-Haq conducted an interactive session on The NUSTIAN, annual bilingual literary magazine of the University on April 24 in NBS Seminar Hall. Students from different institutions of the NUST Main Campus and members of NUST Drama & Debating Society, NUST Literary Circle and NUST Bazm-e-Pakistan along with their Faculty Sponsors participated in this useful interactive session. It was meant to encourage students to give vent to their creative potential. The Editor urged the students to exploit their innovative faculties by putting something substantial on paper. He also introduced them to the wide range of genres and asserted on sticking to the genre which suited their aptitude. He further said that 'The NUSTIAN' was looking for the refined essayists, poets and cartoonists providing space to their innovative faculties. Speaking to the potential writers endowed with editing skills, Mr Ehsan-ul-Haq said that they might find an esteemed



place of working as Student Editors in the Editorial Board of the magazine. He also sought the bio-data with copies of published writing and details of previous work experience of the students interested in joining the Editorial Board. In the concluding session, the Editor urged focal persons from all the institutions to encourage/motivate the students to contribute to the magazine and later responded to the queries of the students in the Question/Answer session.



## Students receive hands-on MATLAB training

MATLAB Training Workshop was organized by the NUST Science Society on April 5 to 6 followed by another session from April 12 to 13. The workshop was designed to strengthen the skills of participants in their usage of MATLAB, a numerical computing environment and fourth-generation programming language. Students from institutions country-wide, including Air University, CASE, UET Taxila and Mirpur University of Science and Technology attended this training session.

The resource person on this occasion was Dr. Kashif Mahmood Rajpoot, a PhD in Medical Imaging from Institute of Biomedical Engineering, University of Oxford. Dr. Kashif began the informa-

tive session with an introduction to the software and its basic commands. The workshop gradually increased in complexity, covering areas such as loops, matrix manipulations, visualization of data, implementation of algorithms and creation of graphical user interfaces (GUIs), image processing and mathematical modeling. Each concept was aided by practice exercises to fully entrench its understanding. The second day concluded with a surprise quiz to test their level of understanding, with correct answers yielding gifts. After the training was complete, the closing ceremony took place in which the participants were awarded competence certificates.

## CAMP lecture series

As part of the Lecture Series, the students and faculty of Centre for Advanced Mathematics and Physics (CAMP) were joined by a number of both external and internal speakers who enlightened them on various topics including their research, pertaining to the students' curriculum. On April 24, Dr. Waqas Mehmood from Abdus Salam School of Mathematical Sciences, GC University Lahore delivered a lecture on 'Homological Algebra and Its Applications' where he shed light on constructive and local homology and discussed how these concepts can be used to determine new numerical invariants.

Another highlight was Professor Faqir. M. Bhatti; Scientific Director, Centre for Advanced Studies in Mathematics, SBA School of Science and Engineering, Lahore University of Management Sciences (LUMS) who discussed Spectral Properties and Energy of the He-matrix. Other eminent names were Dr. Rubi Gul; Research Associate, Brookhaven National Laboratory, USA; Mr. Fayyaz Hussain, Islamia University Bahawalpur and Dr. Omar Hayat from Quaid-i-Azam University who delivered lectures respectively.

## Lecture on Tunnelling at MCE



Mr. Muhammed Naseem visited Military College of Engineering on April 4 and enlightened the students and faculty on 'State of the Art in Tunnelling.' The speaker explained how global challenges of space related energy crisis and traffic hazards are growing concern for the global, regional and national stakeholders. The increase in urban population does not commensurate with the developmental work, thus causing congestion and shortage of land. The resources like transport, energy, fuel and environmental hazards are causing inconvenience to the population. The solution is efficient use of available space, including underground space.



Lt Col (R) Muhammad Naseem Khan has ten years of road and rail tunnel design and execution experience in Pakistan and Switzerland. He is designer and consultant for road and rail tunnelling works, for ongoing works like Neelum Jhelum Hydro-electric Power Project Lohargali Tunnel at Kashmir and other projects. He also prepared the feasibility study of Metro system (Underground local train plan) of Islamabad and Rawalpindi city. Presently he is working in FWO as a designer and consultant and also assisting NUST in preparing and introducing the UG and PG syllabus on Underground space utilization and tunnelling.

## Pakistan Day Celebration at MCS

Department of Computer Software Engineering at Military College of Signals celebrated Pakistan Day on April 10, where all the students were dressed up in green and white waving their national flag. It was celebrated in the memory of the day, 23rd March 1940, when Muslim League under the leadership of Quaid-i-Azam Muhammad Ali Jinnah, passed a resolution in which they formally demanded the creation of a separate state. HOD Lt. Col Dr. Naveed Iqbal Rao, Dean Brig (R) Dr. Ashraf Masood and CI(E) Col. Dr. Fahim Arif joined the students and faculty for national anthem and flag hoisting ceremony. HOD addressed the students, where he revived the vision of Iqbal and efforts of the Quaid in attaining Pakistan and motivated the students to play their role in the development of their homeland. CIE and DEAN also appreciated the efforts of students as this day was celebrated for the first time in the history of MCS. Poetry, quiz competitions, speeches and talks followed afterwards.



## Recruitment drive gets underway

Karachi Electric Supply Company (KESC) conducted online campus recruitment drive for their Management Trainee Program 2013 in SCEE Auditorium on April 8. A team of Pakistan Microfinance Network (PMN) also conducted an online test of the final year's students of BBA, BS Economics and MS Economics on April 9. The team gave a presentation on PMN and also briefed the students about the conduct of online test. At the end of test Ms. Javeria Saleem, Coordination Officer CIL presented NBS shields to the head of PMN team members namely, Ms. Anum Shakoor, Communications Associate; Mr. Umair Arshad Accounts Manager and Mr. Omar Kafeel, Technology Associate.



In addition to these recruitment drives, on April 12, a team of Colgate Pakistan visited NUST and conducted a session for the Management Trainee Program. The session was held in RIMMS Seminar Hall and intended for the students of MBA final year. As many as 31 students of MBA final year participated in the test out of which 15 students cleared the test and appeared in the interview on the same day. The team of Colgate included Mr. Sehras Siddiqui, HR Manager; Mr. Abrar Ahmed, Area Manager (Sales) and Mr. Kashif Saleem, Zonal Operations Manager.



## Mock tests and evaluation session

SCME Alumni Association (SA2) organized an event called 'Mock Test in Job Quest' on April 9. The event was aimed at helping students evaluate themselves prior to giving job tests. The assessment was divided into three parts, namely; Analytical Reasoning, Numerical Reasoning and Verbal Reasoning. There were 75 questions in

total, with the time limit for completion being one hour. The participants were given guidelines for test solving and the procedure was supervised by invigilators similar to an actual exam. Prior to the mock session SA2's team kept the participants updated via social media on how to prepare themselves for the test which was prepared carefully to replicate the level of difficulty that is found in the actual one. Students from all over NUST participated in this event. A list of top ten scorers was released the following week.



## Lectures held at NIPCONS

A lecture on 'Impact of Geopolitical Environments on the Security of Pakistan' was delivered by Dr. Maria Sultan, DG South Asian Strategic Stability Institute (SASSI) at NIPCONS, NUST. The guest speaker gave insight into the geopolitical situation and its impact on the security of Pakistan. She explained that combat leaders are required to operate within the geopolitical environment which will have a direct bearing on the outcome of the operations.

Another lecture on 'Economic Environment of Pakistan: Challenges and Opportunities' was delivered by Dr. Ashfaq Hasan Khan, Principal NUST Business School. He emphasized that a strong economy and strong defences are the two pillars of a state and are inseparable. He pointed out that a strong economy is a prerequisite for defending the honor and integrity of any nation. A lecture on 'Diplomacy as First Line of Defense' was delivered by Ms. Seema Naqvi, Additional Secretary, Middle East and Africa, Ministry of Foreign Affairs at NIPCONS. She discussed how the Country's soft power rests on its resources, cultural values, internal policies and diplomacy. Diplomacy has proven itself as a means of promoting a country's soft power, wherein it helps in averting conflicts and projects the country's point of view on the international forums in a forceful and coherent manner.

## Seminar on 'Issues, Threats and Preventions of Social Networking Sites'

Pakistan Navy Engineering College (PNEC), Karachi organized a seminar for creating awareness regarding "Issues, Threats and Preventions of Social Networking Sites" at Bahria Auditorium on April 19. Assistant Professor Cdr Dr. Nazir Ahmed Malik PN talked at length on the subject. The college faculty, students, Officers and CPOs/Sailors from other commands attended the seminar. The lecture was thought provoking and well received by faculty, PNEC students, Officers and CPOs/Sailors.



## A Focus on Materials : from occurrence to their technology

A lecture on 'Materials: From Occurrence to their Technology' was held in School of Chemical and Materials Engineering (SCME), NUST, on April 3 which invited Dr. Khalil A. Qureshi, President Pakistan Materials Research Society, Islamabad, as the guest speaker. HOD Chemical Engineering, Dr. Arshad and HOD Materials Engineering, Dr. Shahid, both attended the seminar along with the faculty and students of the School. Mr. Khalil began with a brief description of different processes

carried out in material fabrication including forging, milling, shaping and welding, moving on to their applications. He also discussed different stress tests, their importance and usage in research as well as industry. Mr. Khalil further added that Materials Engineers must familiarize themselves thoroughly with all tests and their applications since fracture/failure analysis is a vital part of their job descriptions. The lecture did not overlook the environmental impact of the processes, as the speaker identified various potential sources of waste and hazards in any process. Students found the tips related to fieldwork particularly helpful.

## Dr. Hoessli and ASAB discuss plans for research collaboration



Prof. Daniel C. Hoessli, medical doctor and biochemist, visited Atta-ur-Rahman School of Applied Biosciences (ASAB) on April 4. Dr. Hoessli's visit was focused on exploring possibilities for collaborations in teaching and research with ASAB. During his stay, he had discussions with Principal ASAB, Dr. Muhammad Ashraf and faculty, relative to research and teaching methods employed. For the past 10 years, Dr. Hoessli has been involved in setting up curriculum which is now utilized to teach all pre-clinical disciplines in the University of Geneva's Faculty of Medicine. Faculty authorities of ASAB expressed interest in approaching EU funding agencies for development of common research goals. Prof. Hoessli had taught pathology and immunology in the medical curriculum for 20 years and is among pioneers in research field of plasma membrane microdomains. He extended his expertise to the student body at ASAB, as he proceeded to deliver research lectures and seminars to PhD and MS students. While addressing students' queries he also shed light on his research, dealing with the plasma membrane of immune cells to characterize receptors involved with antigen recognition and proliferation. Among future collaborative plans is Dr. Hoessli's intention to supervise ongoing projects in the school.



## Academia-Industry on converting Waste to Energy

Noon Sugar Mills expressed their keen interest to develop indigenous process/technology for the byproducts including biogas plant effluents and biomass waste from their industries. The research team at CES sought to collaborate and provide possible cost effective solutions for conversion of waste into valuable energy products. Noon Distillery produces ethyl alcohol mainly by fermentation of molasses. Noon Sugar Mills shared typical analysis of their byproducts followed by a visit on April 25 of a high ranking delegation led by the GM, which helped to design strategy, and target the specific products of their interest. CES gave them very economical solutions to enhance biogas from the effluent with a remarkable reduc-



tion in COD and BOD. Regarding biomass waste, it can be treated with specific bacteria for further mineralization purposes (minerals) to enhance the availability of nutrients for soil fertility. The biomass waste has 25% organic content which could be subjected to briquetting too for co-firing to generate energy at industrial level. CES-NUST will also provide solutions to remove H<sub>2</sub>S gas from biogas to make it environment friendly. The representatives from Noon Sugar Mills were quite satisfied and in agreement with the proposed solutions towards zero waste strategy at industrial level.

## Lecture on Transport Network of Pakistan



Dr. Shahab Khanzada delivered a talk on 'Road Network in Pakistan and Problem Areas' on April 11. Available faculty members and NICE students of class UG CE-2010 attended the guest lecture. The speaker gave a detailed insight into the importance of Road Infrastructure in Pakistan and focused on its present and future demands. He elaborated on the types of traffic observed on national roads and gave an overview on how the overuse of present infrastructure is damaging for the network. His talk also included the future plans of National Highway Authority in order to mitigate the current situation. Furthermore, he emphasized on the future demand of road networks in Pakistan relating it to the present situation of Gawadar Port. A thought provoking lecture ended up with a question and answer session.



## Dr. Sadia talks about fight against HCV



Dr. Sadia Tahir successfully defended her PhD title 'Characterization of HCV genotype 3a structural proteins core E1 and E2 and development of pseudo type particle' on April 15, confronting a panel of both external and internal assessors. Dr. Sadia is a faculty member at Atta-ur-Rehman School of Applied Bio-sciences (ASAB) who was also studying for her PhD from the department. Her project characterized Hepatitis C Virus from Pakistan and identified HCV core residues involved in interferon response. This was the first time glycosylation position shift had been reported in HCV. She has also developed surrogate virus entry model and full length infection from Pakistani Isolates that can be used for antiviral drug screening and molecular studies. Dr. Sadia hopes that her study will help to improve drugs' performance against HCV and provide critical information for vaccine development in future. She thanked NUST for providing funds for her research in the highly reputed Lab in Pasteur Institute, France and their valuable research support at ASAB.

## Lecture by Dr. Almas Taj Awan at CES-NUST

Dr Almas Taj Awan visited Centre for Energy Systems -NUST on April 1 to hold a seminar on 'Orange Bagasse as Biomass for 2nd generation-Bioethanol Production.' She discussed her PhD research work with the students and elaborated that with some pretreatment same methodology could be used for bioethanol production from crop residue like wheat straw, etc. Furthermore she emphasized the need to utilize the biomass resources for the production of renewable fuel resources in Pakistan. Dr. Almas Taj Awan is a PhD in chemistry from State University of Campinas, UNICAMP, Sao Paulo, Brazil in 2013 on a scholarship of student exchange program offered by Brazilian scientific organization and The World Academy of Sciences and Technology, Italy (TWAS).



## Alumni Talk Series - MCS

Alumni Talk series is an initiative by NUST Alumni Association (NAA) to connect NUST's Alumni with the final year students and soon to be Alumni of NUST. It is aimed at giving final year students of various disciplines, a sneak peak of what life might be like once they enter the corporate world after Graduation. A dedicated career management session was held at Military College of Signals (MCS) on April 13. The speakers included Mr. Suhaib Baloch, Heading Recruitment & Employer Branding and Ms. Afia Zahid, a Recruitment Officer at Telenor Pakistan and NUST Business School Alumni. The session was aimed to cover various areas of Career Management and the objective was to help graduating batch find answers to various queries such as how to plan your career, how to make a CV that stands out, how to prepare for an interview and most importantly how to manage and nurture the Brand called "YOU".



The graduating students thoroughly appreciated the session and lauded the efforts of NAA and Signalianz Alumni Association to serve as mentors for current students. They also lauded the speakers for an engaging, interactive and thoughtful session.

## 04 Co-curriculars Corner

### Study tour to Parliament Lodges

A study tour for 2010 batch of NICE was arranged to the Parliament Lodges on April 25. A total of 175 future civil engineers and several faculty members visited the under construction sites in Islamabad.

The client of this 657,921 square feet project is National Assembly Secretariat with total project cost of Rs. 2783 Million. The purpose of the visit was to help the students in understanding the onsite construction practices, stringent conditions at site and to analyze under construction aspects of a structure. Since the lodges were at different stages of completion, it enabled the students to observe different civil engineering structures and practices.



### Students from NICE visit Simli Dam

As a corollary to Public Health Engineering course, a study tour of 2010 Batch of NUST Institute of Civil Engineering (NICE), SCCE was arranged to Simli Dam and the adjoining water treatment and filtration plant. Simli Dam, completed in 1983, is an 80 meters high earthen embankment dam on the Soan River, 30 kilometers east of Islamabad and Raw-

alpindi in Rawalpindi District, Punjab, Pakistan. It is the largest reservoir of drinking water to people living in Islamabad, the capital of Pakistan. The students keenly observed how the water of Simli dam passes through a sand filter medium activating carbon unit 5 micron and 1 micron cartage, and then finally made to pass under an ultra-violet (UV) lamp (installed in filtration plants) which kills the remaining germs, before consumers can drink it out of the taps. The young engineers had a lot to learn from the study tour.



### Board gaming competition at SCME takes everyone by surprise

Society for Event Management (SEMS) in School of Chemical and Materials Engineering (SCME) organized a Board Gaming competition from April 10 to 17. The opening game was inspired from the coveted game show and named 'Minute-to-Win-it'. The knock out challenges took place first, knocking cups with rubber bands and using straws to suck-up and transfer candy. Tournaments of Ludo, Chess, Checkers and Pictionary were held in the following days where students would flock around the board anticipating and cheering the participants. On the closing ceremony of the competition the final round of 'Minute-to-Win-it' was held where the organizing team switched the challenges up a notch, however the winners managed to accomplish all tasks and took home cash prizes. The final element with which the gaming competition concluded was one of 'dumb charades' which had two teams; one from materials and chemical engineering each. The teams had to guess the mean-



ing the other team was trying to convey through subtle actions in just a few seconds. The event can be wrapped up with a single comment from a participant, saying, 'everyone was 10-years old again!'



## CAMP Movie Night: Fundraising event

The students of CAMP screened a movie to raise funds for the Student Endowment Fund. It was an American science fiction adventure film, 'Hunger Games' which was shown to students and faculty on April 23. Not only was the fee nominal but the movie was also carefully chosen to attract maximum university students. The organizing body in their closing remarks appreciated their team effort, school administration and the enthusiastic audience for making the fund raiser a success and expressed plans to continue such activities that are both beneficial and entertaining.



## Students' recreational break-CAMP

The administration of Centre for Advanced Mathematics and Physics (CAMP) organized a trip for all batches of CAMP. A large number of students and faculty members including Dr. Shahid, Dr. Nasir, Dr. Fayaz, Dr. Asif and Prof. Muneer went on the trip. On April 6, the group left for Abottabad, Murree, Galiat and Ayubia. The basic purpose was sightseeing at the delightful picnic spot near Abottabad and Ayubia, which wouldn't have been complete without its chair lift rides. Lunch was enjoyed at PTDC Hotel and the group proceeded with their journey. After the successful and much enjoyable trip, the administration hoped to make the school trip an annual feature.



## MCS Ladies Pantomime 2013

'Ladies Pantomime 2013' was celebrated on April 20 and was organized by the female students of TE-47 and BESE-16 under the supervision of MCS Trg Bn. The guests on the occasion were Begum Brig Ali Farhan and Begum Maj Gen Waqar Ahmad. Female Students from all batches attended the event with the passing out seniors of TE-46. The stage was decorated in the 'Arabian Nights' theme, embellished with the shimmery drapes and golden domes. The stage was set alive with the costumes and colors witnessed by everyone present. As the night progressed, commendable dance performances by BS-16, TE-47 and TE-48 pumped up the event to its full energy. Later, hilarious videos and parodies depicting life at MCS was shown. Subsequently titles were also awarded by the immediate juniors to their beloved seniors of TE-46 with the awards for the 'Lady of the Evening', 'Best Telecom Senior' and 'Best Software Senior' going to NC Zainab Abbass, NC Rida Naseem and NC Anum Saud respectively. The farewell video moved many to tears in remembrance of the good times spent together and proved to be yet another departing gift to the seniors.



## Faculty and students visit Benazir International Airport - NICE

On April 18, Batch of NUST Institute of Civil Engineering visited the under construction Benazir International Airport at Fateh Jang as a supplement to Airport Engineering course. The visiting team included 120 students and faculty members. The visit was conducted through courtesy of Frontier Works Organisation, the main contractor of terminal building of CAA. The visiting students were received by Proj Manager FWO, Lt Col Raja Aftab and Rep of CAA, Lt Col (R) Zahid. The students were briefed about the major components of airport construction and engineering including the construction of runway and taxi ways and were shown the construction of runway and taxi way for landing/taking off to accommodate the latest heavy aircraft. They were shown the layout of terminal building including arrival/departure lounge and also briefed on the construction of steel roof of the building. Finally, the students were taken to concrete batching plant site for detailed visit and were shown the function and ingredients used in concrete batching plant for lining work.



## PNEC bags second prize in national declamation contest

1st UOG All Pakistan Declamation Contest 2013 was organised by University of Gujrat from April 7 to 9. Pakistan Navy Engineering College, NUST team comprising Bilal Asif (Urdu category) and Muhammad Talha Malik (English category) participated in the competition. Moreover, thirty teams from all over Pakistan participated for the best speaker awards. PNEC team qualified the initial round and was able to bag second position in the declamation.

Another inter-department debate and speech competition was organized by Media Affair & Communication Society, PNEC. The event took place on April 5, featuring both English and Urdu speeches. Winner of Urdu Speech was Jawad Ali, winner of English Debate for the motion was Ayesha Farooq; while, Ammarah Tanveer won the English Debate against the motion.

## NMC visit to Rohtas Fort

The NUST Media club organized a photography trip to Rohtas Fort on April 7. 100 students signed up to explore and capture the relics of Rohtas Fort in the outskirts of Jhelum City. An added part of the tour was a special rappelling session arranged by Adventure Club Pakistan. Reaching Rohtas Fort in the afternoon, enthusiastic Nustians started the tour with a historical background of the relics by a local guide. The participants explored the fort's historical features like crumbling outer walls, the Sohail gate, the dungeons and the *phansi-ghhat* among the most photographed attractions. An added feature of the trip was a cleanup drive by members of the NUST Environment Club who accompanied the participants on the trip and put in their bit in preserving the fort. Faculty sponsor of the NUST Media Club, Mr. Muhammad Umer presented President Adventure Club Pakistan, Dr. Tahir Imran with an honorary shield on returning to the University.



## NBS Alumni Association Basant Gala at Khanpur

NUST Business School faculty and students got together again for another excursion; to celebrate the colorful event of Basant at an exclusive farm house at Khanpur. The journey started by everyone assembling at the Taxila Museum on April 27. Everything from food stalls to kite flying, fast food pizzas to traditional savor rice to snacks and drinks were available. In groups, students and alumni dispersed to different locations of the river bed and a competitive yet enthralling game of bo-kata began. After a group photo of all the attendees later in the afternoon to memorize the event, everyone slowly headed back and reached NUST H-12 Campus at 7:00 pm. From here the students and alumni parted their ways after a vibrant and fun filled day.





## PNEC students excel at GIKI

PNEC Students won 1st Prize for their Research Paper on 'Structural Stability of an Observation Class Remotely Operated Vehicle' at the International Mechanical Engineering Convention (IMEC) 2013 held at Ghulam Ishaq Khan Institute (GIKI), Pakistan. Student Project Members including Syed Onib Nasir, Emad ul Islam and M Usman Yousaf with Faculty Supervisor Cdr Dr Attaullah Memon PN represented NUST at the event.



## Marathon for fund raising at PNEC

In line with activities scheduled for Fund Raising Week 2013, Marathon was held at Pakistan Navy Engineering College (PNEC), NUST Karachi on Saturday 27 April 2013. All UT Officers, MESMC/WESMC classes, Officers and volunteer civilian students attended the event and competed enthusiastically.



## PNEC Olympiad 2013

PNEC organized NUST-PNEC Olympiad 2013 from April 5 to 8. Keeping current global interests in perspective, the sports and activities were planned in a manner that challenged the participants, while promoting the spirit of healthy competition. 346 players from 12 renowned universities of Karachi participated in the event which included participants from Bahria University, IBA, Aga Khan University, FAST University and SZABIST University. Moreover, 142 players from PNEC also participated in the events ranging from Cricket, Futsal, and Volleyball to Table Tennis and Chess. Events featured both boys and girls categories.

Other than sports, social events were also organized to boost the morale of players. A comedy night featuring 'LOL WALAY' was conducted on April 6 in PNEC Auditorium followed by a Basant Festival on April 7 at PNEC Parade ground. Finally, Musical night featuring concert of 'Strings' was conducted on April 8. Engr. Imdad Imam Jafri, Commandant PNEC along with Engr. Ather

Saleem, Deputy Commandant PNEC and Commandant PNS Bahadur attended the event. A prize distribution ceremony was also conducted the same day in PNEC auditorium. Engr. Ather Saleem, Deputy Commandant PNEC was chief guest for the event and distributed prizes among the worthy winners from different universities.



## E&ME Parliamentary Debates

Asian style parliamentary debates were held under the 'Go Green' event at NUST College of Electrical and Mechanical Engineering from May 3-6 2013. Two teams from Army Medical College participated in the event with teams from FAST, LSE and Shifa International Medical College. The Team A consisted of M. Sherdil, Daud Malik and Urwat-til-Vusqa whereas, Zainab Javed, Ayesha Aziz and Omer Ahmed were in Team B with Daud Malik as AMC Squad Captain. The team from Army Medical College qualified for the finals but lost to Lahore School of Economics in the first round of the Finals.



## Strengthening environmental concern in engineering students

An educational class trip to the Rawal Lake Water Treatment Facility was organized by School of Chemical and Materials Engineering (SCME) for their chemical engineering students of ChE-03. The purpose of the trip was to provide a hands-on experience to the chemical engineering students about water treatment and its importance. The trip was supervised by Ms. Erum Aamer of Institute of Environmental Science and Engineering (IESE).

The students were guided around the treatment facilities by an employee, and were instructed about the different aspects of water treatment. They visited different components of the water treatment chain such as the flash mixers where deaeration took place, clarifiers, sedimentation chamber, etc. The guide stressed on the importance of environmental friendly processes and the economics of producing clean water, and answered questions about the growth of the water treatment industry over the last couple of years. The group left the campus at 10.00 A.M. and returned by 1.30 P.M.

The demand for basic aspects of Environmental Engineering to be integrated into the field of Chemical Engineering has been gaining momentum over the years, as concerns about environmental degradation has increased. It is hoped that newer generation of Chemical Engineering will take important steps to address these concerns.



## THE NUSTIAN-2013

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

It is a bilingual annual issue of the University. Contribute in the language of your choice (Urdu, English)

**First come, first served.**

Phone: +92-51-90851363

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

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



## 05 Sports News

# IGIS House Championship



The IGIS House Championship was held from April 10 to 12. The event was the second one of its kind and a strong trend-setter for future. The championship consisted of a total of 160 students divided into 4 houses of 40 each. The houses were assigned colors and titled with the names of respectful historical figures namely Black House: Tipu Sultan, White House: Allama Iqbal, Blue House: Sir Syed and Brown House: M. Ali Jinnah.

The event commenced with the opening ceremony that featured choreographed representation of each house. The chief guest of the ceremony was the respected Principal SCEE, Dr. Nasrullah Khan. Various sports were played during the house championship and points were awarded to each house accordingly. The sports included Table Tennis, Cricket, Basketball, Futsal, 100m Race, Tug of War, Badminton and Volleyball. On the third day, the closing ceremony was held with the winning house getting the honorable trophy of House Championship. The Syed house was the winner with the white house securing the runner-up position. Dr. Javed Iqbal, HoD distributed prizes among the deserving winners.



## Sports Week at CAMP

The students and faculty of NUST Centre for Advanced Mathematics and Physics (CAMP) organized their sports week from March 26 to 29. Closing ceremony of the event took place on April 9. All the students were divided into two houses, Jinnah and Iqbal where they actively participated in a range of sports including Cricket, Futsal, Table Tennis, Badminton, Volleyball and Basketball.

The prize distribution ceremony was held in CAMP auditorium and attended by students and faculty including HOD Maths Department, Rashid Farooq and Mr. Imran who headed Jinnah and Iqbal house respectively. Dir Administration, Brig. Arif Siddiqui was the chief guest on the occasion. Iqbal house remained victorious in Futsal, Table Tennis, Volleyball and Basketball, while Jinnah won over the other house in Cricket, Badminton, Dodgeball and Chess. However the outcome was a tie as both houses managed to secure 12 points each.





# SPORTS GALA

## ASAB

The second week of April heralded the commencement of the Sports Gala at ASAB. The opening ceremony was held amidst elegantly embellished corridors and ground floor of ASAB on April 9. ASAB students were distributed in three houses namely, Hawks, Stallions and RCMS Tigers. ASAB Students' Club (ASC) organized the event.

First day included Indoor games such as Table Tennis, Darts, Carom, Chess and Ludo, followed by Basketball and Volleyball. The third day included girls' Volleyball and Futsal and the final day the Cricket. It was emboldening to see the teams, competing fiercely against other teams for the coveted trophy as well as displaying enviable sportsmanship. Friendly matches were held between faculty and students and their interaction was a source of entertainment for everyone. The closing ceremony and prize distribution was held on April 26 and the results disclosed 'Stallions' as the worthy winners, with first runners up being the 'Tigers' and second runners up were the 'Hawks.'



## SCME

The students of School of Chemical and Materials Engineering (SCME), NUST take their sports seriously. This was quite evident in SCME Sports Gala 2013. The opening ceremony kicked off with a parade where students of each house put on their representative shirts and marched through the school with their slogans echoing through the halls. A game of tug-of-war gave a start to the opening day, followed by an inaugural cake cutting ceremony. A series of sports were held. The results announced victory to Team Yellow in Cricket and Table tennis and Red House in Football, Volleyball, E-Gaming, Tug-of-War, Long jump and Triple jump. Green House emerged as

the winning house for the second time in a row with medals in Basketball, Badminton and Over-all Athletics. The closing ceremony was marked by conferring titles to the winning teams. The Best Athlete among Girls was Gohar Azhar and Haseeb Aslam from Boys. Shazab Rizwan, Umair Asif, Waqar Khan, Bilal Qasim, Seemal Mustaq and Anum Khan were named best athletes in their respective batches. All the winning participants were greatly motivated as medals, trophies and Sports Gala Cups were awarded by Principal SCME, Dr. M. Mujahid, HOD Chemical Engineering, Dr. Arshad and HOD Materials Engineering, Dr. Shahid.





## NUST bags third position in the inter-university mountain climbing competition

NUST held practice sessions of five-days for Rock Climbing at Saidpur Village, Islamabad. In these sessions, 6 students of NUST H-12 Campus took part and made 4 to 5 climbs a day. These sessions were supervised by DD Sports Ms Robina Anser. On April 9, NUST students participated in HEC Intervarsity Mountaineering Championship 2013. The team members included Mir Manzar Elahi, Liaqat karim, Waseem Abbas, Hafiz Muhammad Hassaan Qamar, Sami Ullah Khan Ayyubi and Hamza Khalid Qazi. It was speed climbing competition and height of the pitch was 45ft approx. NUST University achieved overall third position, out of the 14 teams that participated with Mir Manzar Elahi, completing the mountain climb in a jaw dropping 20.44 seconds.



## Sports eve with NAA

In order to create and maintain cordial relations with NUST Alumni and to reinforce their connectivity with NUST, a sports evening was held on April 13. The registration was opened to all NUST Alumni including their families. The sports included Cricket, Volleyball, Basketball, Futsal, Dodge the ball, Tug of war and various races for the children. The event also featured music, festivities, campus tour for Alumni, families and kids on Go-Cart, refreshments and above all, many sports activities for all in attendance. The gala ended with distribution of certificates and souvenirs to the Alumni and organizers by President NUST Alumni Association. The day was thoroughly enjoyed by Alumni and their families. The Chief Guest of the occasion was President NUST Alumni Association, Mr. Ammar Ahmad Khan.



“If winning isn’t everything, why do they keep score?”

Vince Lombardi



## 06 Achievements

### NUST students win Preston Entrepreneurial Challenge



To promote entrepreneurial spirit among its students, NUST Business School encouraged its students to participate in 'Preston Entrepreneurial Challenge (PEC-13)' for young entrepreneurs from April 26 to 27. There were a total of 46 teams including NUST were short listed for the final NUST team comprising Muhammad Ali, Faisal Afridi, and Waqas Ahmed won the overall competition securing first position. 1st prize worth Rs. 100,000/- and Rs. 50,000/- as seed money was awarded to the winners. The two day event embraced Business Plan Competition, Brand War, Ad-Gala, Elevator Pitch, Workshops, Surprise and recreational activities. NUST students also won individual events of Brand War and Elevator Pitch. Brig Nisar Ahmed, CEO of Naimat Group of Companies distributed the trophy to the winning teams. The winners also got a chance to get free office space for starting up their own business.

### PCST confers award to researcher at CAMP

The Pakistan Council for Science and Technology (PCST) has recently conferred Research Productivity Award to the scientists and esteemed faculty of NUST in different categories based on their research productivity. Dr. Tooba Siddiqui, from CAMP had 3 publications with an impact factor of 2.2865 in year 2011, and was placed in category G. Research Productivity Award is given to the faculty members for realizing their achievements and as an incentive to Pakistani scientists and engineers for carrying out research of high international standard.

### Radio Production Award

BS Mass Communication students of NUST Business School, Rubab Batool, Zari Asif Turk, Aminah Javed, and Syed Musa won the first position in all Pakistan Universities Radio Production Award in a category of 'Creative Work'. The creative work of the young students of BS 2012, *Main Be-qasoor-Hoon* (audio drama) was on gender based domestic violence under the supervision of Mr. Omar Javaid Hashimi, Program Producer for Voice of NUST of Mass Comm.

The competition was arranged for all universities and degree awarding Institutes offering MA/MSc Mass Communication. The Mass Communication team of NUST was honored with a shield, certificates of appreciation and cash prizes. The competition was organized by Pakistan Broadcasting Corporation (PBC) in collaboration with USAID and Aurat Foundation under Gender Equity Program to create awareness of gender issues through radio programs.



### MCS faculty publishes research paper

Dr Muhammad Hanif, a faculty member from Military College of Signals got his paper titled 'Diagnostic Study of an Fe-Ni Alloy Plasma Generated by the Fundamental (1064 nm) and Second (532 nm) Harmonics of an Nd: YAG Laser' published in International Journal, 'Plasma Science and Technology'. He regularly publishes his research work in international journals of repute (ISI indexed journals with good impact factor).





## SMME shines in Int'l Mechanical Engineering Convention, GIKI

International Mechanical Engineering Convention (IMEC) is organised every year by ASME Giki chapter. They incorporated three new modules; Human Powered Vehicles Contest (HPVC), Rapid Design Competition and Climate Control Challenge to this year's event. Teams from all over Pakistan came to participate in this mega competition. A team from SMME comprising Junaid Saleem and Fahad Ahsan participated in one of the most popular modules; Mind crunch. These students from NUST proved their mettle and made their university proud by standing first in

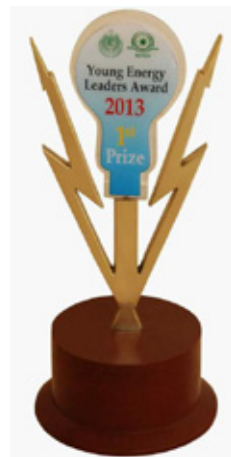
the competition facing a tough challenge from the team representing HITEC University Taxila. The Quiz consisted of multiple rounds including a test of participants' basic mathematics and physics.

Progression in the competition led to a battle of the fastest reflexes in the Rapid Response Round, followed by the grand finale video round where contestants were asked to watch a documentary on an innovation and then answer questions about it based on application of their fundamental engineering concepts.



## PNEC Researchers win Young Energy Leader Award 2013

Researchers at Pakistan Navy Engineering College (PNEC), Karachi are working in the field of Ocean Energy and a prototype has been developed to harness Ocean Wave Energy. The prototype was developed and tested at Manora beach. The Principal Investigators of project are Dr. Cdr Shafiq ur Rehman PN and Lt Faheem Yousaf PN, while Lt Muneeb Zaman PN & Mr Syed Ahmed Iqtidar are the team members. This project was exhibited during PowerGen Conference and University Industry Partnership (UIP) Exhibition held at Marriot on April 9 and won first prize for Young Energy Leaders Award 2013. This event was organized in joint collaboration by youth affairs department of Government of Sindh, National Forum for Environment and Health (NFEH), AEDB and Renewable and Alternate Energy Association, Pakistan (REAP). Advisor to Chief Minister on Youth Affairs, Mr. Haroon Farooqi, distributed the awards among the winning teams.



## RCMS student grabs Best Poster Award

Noreen Akhter, a PhD student at RCMS represented NUST with her poster titled '2D- and 3D-QSAR models of benzopyran type inhibitors of the multidrug transporter P-glycoprotein' at the 'First National Workshop/Conference on Computational Tools' from April 8 to 12, 2013 at National Centre for Physics (NCP) Pakistan. More than 50 faculty members, students and researchers presented their work in the conference. In recognition of her scholarly contribution, she was awarded the best poster prize. Noreen Akhter was supervised by Dr. Ishrat Jabeen, leader of Pharmacoinformatics research group at RCMS. The research emphasis and focus of the group includes molecular modeling and computer-aided drug design.



## MCS Faculty awarded

Dr. Safia Akram, faculty member at Military College of Signals besides teaching, is actively involved in research activities. Her research interest includes Applied Ciliary motion in an infinite channel, Peristaltic flows, Analytical and Numerical solutions of problems raised in Applied Mathematics, Duct problems in peristaltic flows, Heat transfer Analysis, Magnetohydrodynamics, Porous medium, Mass transfer and nanofluids. Every year her research papers are published in reputed international journals with high impact factors.

Last year she received Research Productivity Award for the year 2011-12 from Pakistan Council of Science and Technology (PCST). This year, too, she has been bestowed the same award on account of her research papers, impact factors and citation for the subject year in the field of Applied Mathematics (Fluid Mechanics).





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**National University of Sciences & Technology**  
H-12, Islamabad, Pakistan

**Tel:** +92-51-90851368 **Fax:** +92-51-90851362 **Email:** [nustnews@nust.edu.pk](mailto:nustnews@nust.edu.pk) **Website:** [www.nust.edu.pk](http://www.nust.edu.pk)