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**NUSTNEWS** is a bi-monthly publication, produced by Publishing and 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.

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01

IN THE SPOTLIGHT



# UNIDO joins hands with NUST



**Collaboration will focus on clean energy technologies, entrepreneurship development and establishment of science and technology park**

The United Nations Industrial Development Organization (UNIDO) and National University of Sciences and Technology (NUST) have agreed to foster entrepreneurship in clean technology innovation in Pakistan, where UNIDO and NUST are already working on capacity building of national engineering universities, research and development institutes and local manufacturers of biomass gasifiers.

The meeting, held between the senior UNIDO reps and NUST high-ups, discussed multiple areas of collaboration ranging from advisory services, incubation support to research and development for renewable energy with special focus on local manufacturing of biomass gasifiers and clean technology innovations. This will help further strengthen the partnership between the two organizations particularly, in the areas of energy, environment and its related facets.

Speaking at the occasion, the UNIDO Director General Mr Li Yong appreciated NUST's role in national development and emphasized that industrial development was not possible without the academia's contribution.

Mr Li further said that economic growth not only is driven by entrepreneurship but also by continuous

economic diversification, trade increase, industrial upgradation and technological innovation. He highlighted that UNIDO's vision on Inclusive and Sustainable Industrial Development (ISID) could be achieved with the sustainable clean energy supplies to the industry. Addressing the event, Rector NUST Engr. Muhammad Asghar commended UNIDO's efforts for the promotion of renewable energy technologies and specifically UNIDO/NUST joint programme on biomass gasification technologies in Pakistan. He reiterated NUST's commitment to further strengthen cooperation with UNIDO was a step forward, which would enhance Industry/academia linkages, clean technologies development and eventually help address the energy crisis in Pakistan. It was also agreed that an MoU would be signed soon to initiate the process for strategic partnership with NUST in the areas of clean energy, energy efficiency, renewable energy, and cleaner production. The cooperation will pave the way for the establishment of Science and Technology Park at NUST in collaboration with UNIDO.

The collaboration between the two will also help foster the research and development scenario of the renewable energy sector and promote entrepreneurship in the area of clean technologies. This cooperation will be having long-term multi-faceted benefits for Pakistan, in terms of more employment generation through entrepreneurship, power generation through clean sources, which will ultimately result in reduction of carbon emissions and lay a positive impact on environment.



# SEECs project wins Rs1 million at BITA 2014

A project led by Dr Hammad Cheema has won the Best IT Innovation Award (BITA) 2014 worth Rs1 million on 18th December. The team including BEE-3 students Fawad, Kulsoom, Usman and Saad has demonstrated a wearable device for accurate and real-time quantification of essential tremors. This device has the potential to improve lives of millions of people suffering from neurological disorders.

There were 96 submissions in total out of which seven were shortlisted for final presentations. It is heartening to note that three out of seven finalists were from SEECs. The financial award will be utilized to take the device from the prototype stage to a market-ready product.



# CAE students stand out at All Pakistan Airex Innovation Challenge

AirEx Innovation Challenge is a national level competition, organized annually by the GIKI Student Chapter of American Institute of Aeronautics and Astronautics (AIAA). About 50 teams and 500 students from various institutes of Pakistan participated in AirEx Innovation Challenge 2014 and Leadership Summit 2014. Five teams of CAE comprising 16 students participated in the seven modules of the competition.

The performance of CAE teams was far too impressive than being merely ordinary.

They were declared champions in four modules whereas runners-up in three modules. The dedication and hard work of the teams have brought laurels to NUST at a prestigious national platform. They were also honored at NUST high achiever awards ceremony lately held at NUST headquarters.



# Pak-German Joint Seminar on UN Peacekeeping Operations



The first Pak-German Joint Seminar on UN Peacekeeping Operations was held at the Centre for International Peace and Stability (CIPS) in Islamabad on 17 December.

Welcoming the guests and participants, Rector NUST Engr Muhammad Asghar highlighted that Pakistan had enormous UN peacekeeping experience and it ranked amongst the top troop contributing countries (TCC).

The speakers at the forum included German delegates Colonel Reinhard Barz and Lieutenant Colonel Helmut Seidel. Pakistani speakers Lieutenant General (Retired) Sikander Afzal, Major Gen-



eral (Retired) Muhammad Khalid, Major General Muhammad Iqbal Aasi and Brigadier (Retired) Mujahid Alam shared their valuable experiences in UN peacekeeping operations. Diplomats/military attachés from various countries, serving and retired armed forces officials of the three services, a large number of researchers and scholars from several universities and think tanks in addition to the faculty and students participated in the event.

## Delegation from NESAC Center for Strategic Studies attend roundtable at CIPS

A roundtable was organized for a delegation of Near East South Asia (NESAC) Center for Strategic Studies Washington DC, on February 09 at the university's main campus.

The delegation was on an exploratory visit. The purpose was twofold: to introduce themselves; and subsequently establish a network of strategic studies with NUST. NESAC invites students to attend courses and has a very large alumni body in Pakistan, conservatively estimated at around 500 military officers, civil servants and academics.





# Five research scholars successfully defend PhD theses

## Research Centre for Modeling and Simulation

Dr Muhammad Azam became the first PhD qualified student of RCMS by successfully defending his PhD thesis titled “Wavelet-based Numerical Integration for Meshfree Computational Analysis of Structure and Fluid Problems” on Wednesday, 11 February. He carried out highly productive research work as evidenced by his six publications in international journals over a period of four years.



## School of Mechanical and Manufacturing Engineering

NUST, School of Mechanical and Manufacturing Engineering Department produced its first PhD. The pioneer doctorate degree holder is Mr Muhammad Umer who's PhD thesis Research Title is “Formulation of Neural Augmented Ant Colony Optimization (NaACO) Technique for Scheduling”. He was being supervised by Dr Riaz Ahmed and gave his defense on 29th Jan.



## Atta-ur-Rahman School of Applied Biosciences

Recently, three PhD scholars of Atta-ur-Rahman School of Applied Biosciences have simultaneously completed their degrees. Dr Altaf Ahmed focused his PhD research on Immuno-genetics and studied the Mapping of genes involved in Neurological Disorders in Pakistani Families, under the supervision of Dr Peter John. The research was done in collaboration with University of Toronto, Canada. He successfully produced four research articles with an impact factor of 15.00 during his degree. The articles were published in well-reputed scientific journals. He is currently working as a faculty

member at Government Degree College, Shikarpur Sindh.

Similarly, Dr Kashif Asghar, a faculty member at ASAB, did his research in cancer immunology as he examined the Immunoregulatory effects of Indole 2,3-dioxygenase in primary biliary cirrhosis and hepatitis virus-induced liver cirrhosis, which was supervised by Dr Sheeba Murad. The research was carried out in partnership with Newcastle University, UK. Dr Kashif Asghar has a number of research publications in reputable scientific journals to his credit, two of which were published during the course of his PhD research.

Likewise Dr Muhammad Imran conducted his research under the supervision of Dr Sobia Mazoor. His core field of research is virology and immunology with an emphasis on viral hepatitis group. In his PhD research, he investigated the role of viral and host factors in treatment outcomes of interferon-based therapy among chronic HCV Pakistani patients. Dr Imran has managed to get three research articles and a similar number of review articles published in well-ranked ISI indexed international journals during the course of his degree.

## Recognition of PhD Program in Peace and Conflict Studies

Higher Education Commission (HEC) has recognized PhD Program in Peace and Conflict Studies (PCS) of Centre for International Peace and Stability (CIPS), (NUST). The committee proposed by NUST on conduct of GRE Subject Type Test for the said PhD program has also been approved by the HEC.

## Dr Junaid Qadir awarded HEC Best University Teacher Award

Dr Junaid Qadir, Assistant Professor at School of Electrical Engineering and Computer Science, has been awarded the HEC Best University Teacher Award for Year 2012-2013. This is the highest national university teacher award conferred on only one faculty member per each degree awarding institution in Pakistan

Dr Junaid Qadir is also the direc-

tor of the Cognet lab which operates under the PTCL, Cisco, NUST IP Technology Center of Excellence situated at SEECs, NUST. He has research experience in wireless networks, as he worked in the area of routing in wireless mesh networks during his PhD studies under the supervision of Chun Tung Chou at the University of New South Wales (UNSW), Australia.



# CONVOCATIONS

## Army Medical College



The atmosphere at Army Medical College on 25th February was an electric one. It was so because 33rd MBBS and 12th BDS courses had converged on Ayub Auditorium, for their convocation.

The chief guest was Engr Muhammad Asghar – Rector NUST who was accompanied by other senior officers. The event began with the recitation of the Holy Quran, followed by an inspiring speech by the Principal of AM College, Major General Salman Ali, in which he highlighted the achievements of NUST and the milestones that AM College had accomplished over the past few years.

As many as 151 MBBS students and 51 BDS stu-

dents were awarded degrees at the occasion. From amongst these, the efforts of a few students were highlighted in particular i.e. the students who topped in their respective MBBS and BDS classes.

At the occasion, Saadullah Ahmed, was honored with a certificate, as he was declared the youngest medical graduate of the Islamic world and overall 2nd in the world in MBBS. For MBBS batch, the President's Gold Medal, Rector's Gold Medal and the COAS Gold Medal were awarded to MC – 2548 Sidra Riaz. In the discipline of BDS, the President's Gold Medal and Rector's Gold Medal were awarded to PDC – 50 Aima Tariq.





# School of Civil and Environmental Engineering



A graceful convocation ceremony of School of Civil and Environmental Engineering – National University of Sciences and Technology was held on March 17 at the Jinnah auditorium. The convocation was held to award degrees of Bachelor of Civil Engineering, Bachelor of Environmental Engineering, Bachelor of Geographical Information Systems, Master of Engineering in Structural Engineering, Master of Science in Construction Engineering and Management, Master of Science in Environmental Science and, Masters of GIS and RS to the successful students.

Lieutenant General Khalid Asghar, HI (M), Engineer-in-Chief, Pakistan Army graced the auspicious occasion as chief guest. As many as 229 students were conferred bachelor's degrees and 33 students' were conferred master's degrees in their relevant disciplines.

Faculty of SCEE, students and their parents, and a large number of distinguished guests from industry and academia attended the occasion.

President's Gold Medals for

Master of Science (Construction Engineering and Management) was awarded to Mughees Aslam; President's Gold Medals for Master of Science in Environmental Sciences to Waqas Latif and President's Gold Medals for Master of Sciences in Structural Engineering to Khurram Javed. Saher Murad won the President Gold Medal from Masters of Science in GIS and RS.

In Bachelor of Engineering in Civil Engineering, President's Gold Medal for Best in Academics was awarded to Waseem Akhtar; Rector's Gold Medal for Best Final Year Project to Uzair Maqbool and Chancellor's Silver Medal for 2nd

Best in Academic to Saim Raza.

In Bachelor of Environmental Engineering, President's Gold Medal for Best in Academics was awarded to Varda Komal; Rector's Gold Medal for Best Final Year Project to Hussain Kamran and Chancellor's Silver medal for 2nd Best in Academic was awarded to Noor Ul Subha Riaz.

In Bachelor of Engineering in Geoinformatics, President's Gold Medal for Best in Academics to Muhammad Mateen Mahmood; Rector's Gold Medal for Best Final Year Project to Ali Haroon and Chancellor's Silver medal for 2nd Best in Academic to Saad Sarfraz.

While delivering the welcome address Dr Tariq Mahmood, Principal SCEE, extended heartiest felicitations to the graduating students.

Rector NUST Engr Mohammad Asghar congratulated the graduating students. He emphasized, "In the present day of unabated phenomenal explosion of knowledge and scientific inquiry, only those individuals could stay in step, who have genuine spirit and passion for learning new concepts and action strategies.

The chief guest congratulated





the students for successful completion of their degrees. He said, "You are amongst the luckiest few, who had the opportunity to be

nurtured and groomed by a prestigious institution like NUST and SCEE." Therefore, he maintained, they had added responsibility to

serve the humanity in general and their country in particular.

## NUST Business School



Around 200 students received degrees at the convocation of business school of National University of Sciences and Technology at the main campus on 19th March. Degrees of Bachelor of Business Administration, Masters of Business Administration, MPhil and Executive MBAs were conferred upon the successful students. CEO Toyota Motors Mr Parvez Ghias graced the occasion as chief guest. Others who attended the ceremony were Rector NUST Engr Muhammad Asghar, pro rectors, directors and faculty of the university along with the parents of the graduates.

Seven medals were awarded to the outstanding students in total including the President's Gold Medal



to the overall best student. While delivering the welcome address Rector NUST Engr. Muhammad Asghar extended heartiest felicitations to the graduating students, their parents and loved ones. He wished them the best of luck in their future endeavors. He also congratulated the faculty whose hard work had borne fruit in the shape of quality graduates.

After awarding degrees, medals and merit certificates to the graduates, the chief guest also congratulated the students for successful completion of their degrees. He applauded NBS for having taken monumental strides forward towards imparting high quality education.



## Graduate Research Poster Competition held at RCMS

Research Centre for Modeling and Simulation organized Graduate Research Poster Competition for the MS students of Systems Engineering and Computational Science and Engineering on January 29. The activity focused on offering graduate students an opportunity to share their research interests with faculty and students from other NUST institutions. A panel of RCMS faculty headed by the Principal RCMS

Dr Ahmed Ejaz Nadeem evaluated the posters. Ms. Atiqa Bibi and Mr Muhammad Yassar Yahya jointly shared the first position on their posters titled “Study of Dynamic Stability of Atmospheric Entry Vehicles” and “Performance Evaluation of Pakistan Navy Communication Network,” respectively. Principal RCMS, Dr Ahmed Ejaz Nadeem distributed certificates among the winning students.



## Dr Tughrul Yamin launches his new book

Dr Tughrul Yamin published his second book titled “Cyberspace CBMs between Pakistan and India.” The book was launched by NUST Publishing on February 19, 2015. The book launch ceremony was hosted by Center for International Peace and Stability. Senator Mushahid Hussain Syed was chief guest at the auspicious occasion. Prof. Pervaiz Iqbal Cheema and Col I.D Hassan presented their book reviews towards the end of the ceremony.





## ASAB students shine at “International Young Microbiologist Competition”

An online event titled “International Young Microbiologist Competition (IYMC)” was co-organized by National Academy of Young Scientists (NAYS) Pakistan, The Microbiologist, India and Microbiology World, Nepal in November 2014. This event attracted young aspiring scientists from various areas of life-sciences including Microbiology and Biotechnology from around the globe.

Miss Faria Khan and Mr Uzair Hashimi of ASAB NUST represented Pakistan in IYMC and presented their idea in the form of a research article on how antibacterial nanoparticles could provide a potential solution to the spread of MRSA in hospital settings. Their submission secured them the position of 5th runners-up in this global competition. They had previously worked on antibacterial nanoparticles as part of their final year university research project which was supervised by Dr Hussnain Janjua of ASAB.



## NHK, Tokyo team visits Gogi Studios

A team of NHK, the largest television company of Japan, came all the way from Tokyo to NUST on December 24, 2014 to make a documentary on Ms Nigar Nazar, CEO Gogi Studios, for their program “Asian Voices” hosted by the popular anchor Ms Aiko Doden. The program was produced by Masanobu Kimura. The documentary mainly recorded the work of Ms Nigar Nazar, her views and how she conveyed

them in her cartoons, which continued to portray Pakistani society in a lighthearted manner. Light was drawn on how her work contains social messages along with laughter. Other highlights of the documentary included Nazar’s engagement in efforts to raise awareness toward education, environmental protection and other issues. The programme went on air on February 20, 2015.



## Visits

## ICT student officers visit RCMS

A 34-member team of faculty members and student officers from Information and Communication Technology (ICT) branch of Pakistan Army visited the Supercomputing Research and Education Centre (ScREC) at RCMS on 19th February to get familiar with the latest computational and technical facilities at the center. Detailed briefing on architecture and organization of the supercomputer with all associated performance parameters was given to the visiting team by the concerned RCMS faculty. The student officers asked persuasive questions about parallel computing and the maintenance and performance of the ScREC facility.



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## Air Weapons Complex delegation visits RCMS

A team of Air Weapons Complex (AWC) headed by Air Cdre (Rtd) Ahmed Kaleem, Director Radar Technology Center (RTC) visited RCMS to explore collaboration avenues between academia and industry. A comprehensive presentation on RCMS degree programs and research areas was given to the visiting team by HoD Research Dr Adnan Maqsood. The team showed keen interest in the research facilities available at RCMS, especially the supercomputing Research and Education Center (ScREC), which carries the potential to effectively model the research and development projects planned at AWC. Principal RCMS offered every possible help and assistance in providing computa-



tional resources to the AWC researchers. The meeting concluded with the visit of the ScREC at RCMS.

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## ASAB delegation visits University of Agriculture, Faisalabad

A delegation from Atta-ur-Rahman School of Applied Biosciences led by Principal ASAB, Dr Peter John visited University of Agriculture Faisalabad on January 29 to attend the launch of a program namely "Distinguish Innovation Collaboration and Entrepreneurship (DICE-2015)."

The group was welcomed by Dir ORIC Prof. Asif Ali and the Vice Chancellor Prof. Iqar Ahmad. This visit was aimed at enhancing mutual collaboration between NUST and UAF in various different areas of research and number of research projects were discussed which would potentially strengthen research cooperation between NUST and UAF.





## 02

## WORKSHOPS &amp; CONFERENCES



## Second PCTN conference held at NUST

The second conference of Pakistan Chapter of The Talloires Network was held at National University of Sciences and Technology on Wednesday, 18th March. The theme for the conference was 'Sustainable Development Solutions and Action Plans for Universities and their Youth.' Federal Minister for Planning, Development and Reform Mr Ahsan Iqbal was chief guest for the inaugural session. Heads of different member universities across Pakistan, philanthropists, entrepreneurs, academics and a large number of students attended the conference.

Speaking at the occasion, the federal minister said, "a plethora of challenges are facing Pakistan." However, he maintained, the youth were more aware as well as sensitized to what was happening around them. He said that the universities had, therefore, the responsibility to harness the youth potential in a way that they would transcend themselves as human beings and give back to the society the best they could. "Against the backdrop of information technology revolution, the information tends to be only a click away. Therefore, the need of the time is to strengthen education sector of the country as the power of classrooms and laboratories is the only defining feature in the competition-driven world of today," the chief guest added. He further said that the incumbent government was fully cognizant of the importance of education and aimed to establish universities in every nook and corner of Pakistan so that no one remained deprived



of the blessings of knowledge for want of access to higher academic institutions. The minister also made mention of Vision 2025, saying that it was being seriously pursued by the government ever since its launch.

Earlier, Rector NUST Engr Muhammad Asghar welcomed the guests to the conference and hoped that it would go a long way in the development of sustainable solutions. He said that the objectives of PCTN were very much aligned to that of Vision 2025.

A number of other prominent

speakers addressed the daylong conference divided into two sessions: the first being on Education and Skill Development for Poverty Reduction in Pakistan, while the latter focused on Energy Conservation and Finding Alternate Sources for Pakistan. At the occasion, Akhtar Hameed Khan Awards were also bestowed on four universities that had sent their nominations with regard to civic engagement projects. It is pertinent to mention here that the awards also carry monetary assistance.





## World Cancer Day Seminar and Poster Competition, 2015

“World Cancer Day Seminar and Poster Competition” was arranged on 6th February by Department of Community Medicine, Army Medical College as part of the Community Services Learning for the students of 36th MBBS course. The theme given by WHO this year was ‘Not beyond us’ highlighting that solutions did exist across the continuum of cancer and were within our reach.

The seminar was preceded by a poster competi-

tion which looked impressive due to the presence of nine informative and creative posters designed by the talented students of 4th year MBBS. The competition was judged by a panel of esteemed judges, Brig Shahid Jamal, Professor and Head of Department of pathology, Brig Shadab Ahmed Butt, Professor and Head of Department of Anatomy and Brig Syed Azharul Hassan, Director Medical Education.



## Research methodology workshops

### SMME

The workshop was conducted by School of Manufacturing and Mechanical Engineering at NBS seminar Hall from 5th to 15th January. The resource person and the guest speaker for the event was Dr James Witte who is currently serving as permanent faculty at George Mason University Fairfax, Virginia U.S. His visit for the seminar was funded by USEFP. The seminar was of great productivity for the participants and Dr Witte announced that he will visit NUST for such workshops and lectures in May 2015.



### AM College



Research Methodology is a well-recognized discipline having highest importance in medical writing and is part of every postgraduate curriculum. A three-day research methodology workshop was organized by Department of Community Medicine Army Medical College from 27th -29th January 2015 to equip the postgraduate trainees with requisite basic knowledge and skill of medical writing. The principal graciously presided over the certificate distribution ceremony and commended the facilitators and organizers for their efforts in conducting and organizing the workshop in an amicable manner.

## Workshop on “Status of Biomass Gasification Technologies in Pakistan”

CAS-EN organized a workshop on the “Status of Biomass Gasification Technologies in Pakistan” for the technology providers from all over Pakistan on February 4, at NUST. During the workshop, different aspects of biomass gasification technology, ranging from the design of the gasifier to the specific feedstock and local fabrication were discussed. Technology providers showed their keen interest in BGTs and discussed the issues pertaining to its cost and economic viability and hindrances in introducing this technology in Pakistan. Representative from UNIDO enlightened the audience with the project background and the need of BGTs in Pakistan.




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## Workshop on handling of laboratory animals

The use of proper handling techniques reduces stress to laboratory animals and also prevents accidental injuries to the researcher. Researcher should ensure that stress to the laboratory animal is kept to minimum. Animals can inflict serious injuries to humans and to themselves as a result of improper handling. Common laboratory animals used in research by the postgraduate trainees include mice, rats, guinea pigs and rabbits. Keeping in view that everyone must meet all training and occupational health requirements before engaging in any activity involving live laboratory animals, Pharmacology department of Army Medical College organized a one-day workshop in collaboration with National Institute of Health (NIH) Islamabad on 16 February 2015 in Pharmacology department's research lab.

Event was attended by 37 postgraduate trainees of different departments of Army Medical College. Valued services of two experienced facilitators on the subject, Dr Hussain Ali of National Institute of Health



Islamabad and Lt Col Waqar Aslam of Pharmacology department Army Medical College were utilized for the Workshop. Curriculum of the course included lectures, demonstrations, training, practice & interactive sessions. Animals were arranged from NIH Islamabad. On completion of workshop certificates of attendance were awarded to the participants.



## ASAB faculty delivers guest lecture

Ziauddin University, Karachi hosted a prestigious three-day National Conference on Advances in Health Sciences in the month of January. The theme of the conference was "Research and Innovation for Better Health." At the occasion, Dr Touqeer Ahmed of ASAB NUST delivered guest lecture on "The Role of Thelamic Neurons in Emotional Learning." Other invited speakers included experts from Indiana University, USA; Manchester Metropolitan University, UK; University of the Punjab, Lahore; Agha Khan University, Karachi and Baqai Medical Univeristy, Karachi.



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## Principal NIPCONS visits BIPSOT, Bangladesh



Dr Shahid Hashmat, Principal NIPCONS visited Bangladesh Institute of Peace Support Operations (BIPSOT) as a member of UN high level independent panel on 22 January. During this first regional consultation, the panel members were able to hear from a wide-range of regional stakeholders on key doctrinal and operational issues related to the UN peace operations, such as evolving conflict trends and their implications on UN peace operations, the experiences of Asian troop and police contributing countries,

the role and contributions of UN peace operations to sustaining peace and stability, and issues relating to women, peace and security. The review included both peacekeeping operations and special political missions. The panel, chaired by Nobel Laureate and former Head of State, Jose Ramos-Horta, includes 17 members with a wide range of knowledge and expertise in the field of international peace and security. The panel will submit its report to the UN Secretary-General in May 2015.



## Training on “Handling Issues in Construction Projects” at PDC

Professional Development Center (PDC) organized a two-day training workshop on “Handling Issues in Construction Projects (Bid Preparation, Evaluation and Award of Contracts)” on 15th–16th January, at Center for Innovation and Entrepreneurship. The objective of the workshop was to discuss real issues in actual projects implemented in Pakistan through practical examples and guidelines for

approaching and handling these issues as a whole.

The workshop included different sessions. The session on ‘Bid Preparation, Evaluation and Award’ was organized by Engr. Liaqat Hayat. While Engr. Sajid A. Qureshi, who is a lawyer by profession, explained the ‘FIDIC Conditions of Contract versus Applicable Law in Pakistan’, while Engr. Momin Ali Shah discussed the reasons and

remedies that ‘Why Projects get delayed’. Lt. Col. Muhammad Azim elaborated procedures with particular reference to ICC and ICSID in the context of International Dispute Resolution with Case Studies. Representatives from the CWO, IESCO, GHQ, HMC, KSB pump comp. Ltd, FWO and NDC participated in the said workshop.

## Workshop on “Outcome Based Education (OBE)” at MCE

Dr Shahid Iqbal, Dean Civil Engineering Wing conducted a seminar titled “Teaching and learning focused on outcome-based education” at Military College of Engineering, Risalpur. He stressed upon the fact that effective teaching is not just a mere transfer of information from a teacher to students. It is a process of aiding students in building knowledge, providing them training to apply their knowledge in real world situations, and equipping them with skills and tools that are necessary to transfer or extend knowledge from one context to another (i.e., helping them develop higher order thinking skills). A total of 83 professionals, post-graduate students and participants benefited from the workshop.



## Workshop on “Optical Fiber Technologies” at MCS

A one-day PEC CPD Workshop on “Optical Fiber Technologies” was organized by Military College of Signals on 27th November 2014. The course comprised six sessions on Introduction to Fiber Optics, History and Future of Fiber Optics Networking, Fiber to the Home, Fiber Optics Cable and Connector Identification, Introduction to Basic OTDR Functions, Introduction to Outside Plant Cable, and Overview of submarine OFC. The course was conducted by Major Ahmed Naeem Akhtar. As many as fifty participants, including students and professionals from various universities, industries and organizations attended the course. Towards the end, certificates were distributed among the participants.



## “Six Sigma Quality Management Workshop” at PDC

A two-day workshop on “Six Sigma Quality Management” was organized at Professional Development Centre on 27-28 January. The basic aim of the workshop was to apprise industry professionals of different techniques and methodology to identify and correct errors in design and reduce the amount of variability in business and non-business processes and operations. Six Sigma projects follow a predetermined series of steps that have a measurable financial goal, such as an increase in revenue or decrease in costs. Resource person for the workshop was Mr Imtiaz Ahmed, GM PDC who has 15-year experience of working with multinationals in North America in quality management.

## Lecture on “Road Network System of Pakistan”

A lecture on “Road Network System of Pakistan” was arranged on 13th Nov 2014 at NIT Auditorium for the 2013 civil engineering batch of NUST Institute of Civil Engineering (NICE), SCEE. The guest speaker for the occasion was Dr Shahab Khanzada. The guest speaker is currently serving in National Highway Authority (NHA).

Dr Shahab Khanzada elaborated the role of NHA in the development of Pakistan and also mentioned all the projects that are executed and run by NHA to lay the vast network of roads all around the country. In the end a question answer session was also held in order to clear the further doubts of the attendees.



## Workshop on “Effective Communication Skills”

Professional Development Centre organized a three-day in-house workshop on “Effective Communication Skills” for the National Development Complex (NDC) on 26th – 28th January at NDC Kamra. This interactive course was designed for NDC professionals to enhance their skills in communication with colleagues, clients, managers and employees. Mr Mohsin Lodhi was the resource person of the workshop. He is Stephen Covey’s and IFC World Bank certified trainer. He brings with him 33 years of experience in Leadership, Communication, Management, Sales, Marketing, and Personal Development Skills.

## Anger Management Workshop – C<sup>3</sup>A

Center for Counselling and Career Advisory conducted a two-day workshop on “Anger Management” for faculty/officers and NG staff on 18th and 19th of February, respectively. The workshop aimed to help participants understand anger as an emotion, different ways of expressing anger and learn some anger management techniques which may help in developing better relationships.





## Sessions on “Mindfulness Meditation” – C<sup>3</sup>A

One of the psychologists at Centre for Counseling and Career Advisory, who has attended “Mindfulness Meditation Training” in Australia, conducted four consecutive sessions for the C<sup>3</sup>A psychologists and faculty members. The objective of these sessions was to familiarize them with meditation and being a psychologist help them increase their own awareness and provide them a technique which can be used with other therapeutic techniques during their counseling process.



## Workshop on “Overcoming Procrastination”

Center for counselling and Career Advisory (C3A) conducted one day workshop on “Overcoming Procrastination.” The objectives of the subject workshop were to make students understand the phenomenon of procrastination, its possible causes and management. Students actively participated in the workshop and reported that they had considerably benefited from it.



## Lecture by Lt Gen Dan Leaf on Geo-strategic dynamics of Asia Pacific Region

Lt Gen (R) Dan Leaf, Director of Asia-Pacific Center for Security Studies (APCSS), Hawaii was invited by CIPS to deliver a talk on The Geostrategic Dynamics of Asia Pacific Region and Post -2014 US Policy in the Region at the university’s main campus on 10 November. Faculty members formed part of the audience. Rector NUST was chief guest of the ceremony.





## Lecture by Dr Ghulam Rasool

Dr Ghulam Rasool Chaudhry, an eminent scientist and a professor of molecular biology from Department of Biological Sciences and OU-WB Institute for Stem Cell and Regenerative Medicine, Oakland University Rochester, Michigan, USA, visited ASAB on January 21. Prof. Chaudhry is among the distinguished professors in foreign universities who are actively collaborating with researchers at ASAB.

Prof. Chaudhry had an interactive session with the ASAB faculty where different scientific projects and innovative ideas were discussed. Following this session, the distinguished guest delivered a lecture on “the therapeutic potential of stem cells.”



## Seminar on “Strength Assessment, Repair and Rehabilitation of Damaged Structure”

A lecture on “Strength Assessment Repair and Rehabilitation of Damaged Structure” was arranged on 21st January, at NIT Auditorium for the 2011 Civil Engineering Batch of NUST Institute of Civil Engineering (NICE), SCEE. The guest speaker for the occasion was Mr Amin Tariq who is presently running his own consultancy, Amin Tariq and Associates.

The speaker gave a brief introduction about differ-

ent topics to the students such as earthquake, ductility and stiffness provisions, shear wall design and purpose, useful considerations for architects/civil engineers in making a building an earthquake resistant, stability of buildings, effect of shape of buildings and many others.

In the end, a question-answer session was also held in order to clear the further doubts of the attendees.





## High achiever awards ceremony held

In order to befittingly celebrate the meritorious performances of students in co-curricular activities held both within the country and abroad, a prize distribution ceremony was organized at the main campus of National University of Sciences and Technology on 29th January. Rector NUST Engr Muhammad Asghar graced the occasion as chief guest and distributed prizes and merit certificates, as tokens of appreciation, among the excelling students. The Rector hailed the outstanding students on their triumphs, terming them the pride of the country.

Having taken monumental strides forward in terms of academic and research pursuits, Engr Muhammad Asghar maintained, NUST had also won a conspicu-



ous position as far as co-curricular activities were concerned. He was all-praise for the university's esteemed faculty, committed staff and the brilliant students for developing NUST as a global com-

petitor in academia.

Earlier, Deputy Director Student Affairs Mr Ehsan-ul-Haq welcomed the guests and briefly apprised them about the activities of NUST's central clubs and societies.

## Tree plantation drive

With the Spring already around the corner, NUST, in line with its annual tradition, kicked off a massive tree plantation drive at its main campus on 27th February. Rector NUST Engr Muhammad Asghar inaugurated the campaign by planting a tree sapling of Pine. Pro-rectors, directors, students and staff of the University attended the inauguration of this environment friendly campaign.

While speaking at the occasion, the Rector stressed upon the need for holding such campaigns on a regular basis. He said that the horticultural activities were a key towards making the world a better place to breathe in. He appreciated the efforts of the horticulture department of the Administration Directorate in promoting the green culture on the campus.





## Youth Drama Festival 2015

On the sixth day of the Youth Drama Festival 2015, students from National University of Sciences and Technology (NUST) presented the play “Guriya Ka Ghar.” Performed in tandem with International Women’s Day 2015 (8th March), the play is a story of a married woman who always places the wishes

of her husband and children before her own, even if it means sacrificing her lifelong goals and ambitions. However, ultimately she learns the importance of taking care of oneself, and realizes that she is a human being first, and then a wife or mother.

## SCME hosts annual bonfire



The students, alumni and faculty members had an enjoyable evening at the annual bonfire of SCME held on 9th December. The evening was full of exuberant faces, colorful dresses, variety of stalls and energetic performances. The graduated students and the present students of SCME cherished their memories of the time spent together in this reunion and welcomed winters in a festive way.

## 17th HEC All Pakistan Allama Iqbal Shield Declamation Contest

The provincial/regional round of 17th HEC All Pakistan Allama Iqbal Shield Declamation Contest was held at International Islamic University Islamabad on 26th February, 2015. More than 40 participants from 14 universities took part. From NUST, Makhdoom M. Shahab-ud-Din and Muhammad Naeem clinched 1st and 2nd position respectively in the Urdu category.

## Halloween Night by NMC

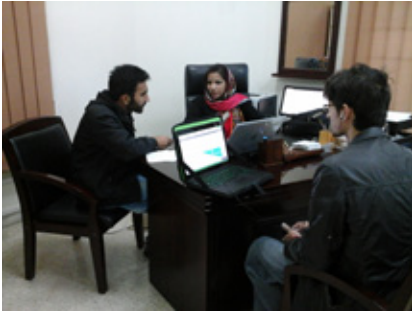
Excited students started arriving at the SCME ground, before the sunset, on December 15, 2014 to attend the NUST Media Carnival: a halloween night. Earlier in the day, rides, which included a Ferris wheel and a pirate ship, were brought to the carnival site and assembled while the logistics team and the décor team set up stalls and decorated the entire site.

The event witnessed a huge crowd of students. Apart from all the schools in H-12 campus, students from MCS, EME and AMC also came to join in. Majority of the students had dressed up or put on at least some amount of make-up for the Halloween theme. Superheroes, fantasy series characters, zombies, vampires and movie characters among others, were seen. That definitely made the environment of the carnival a lot more amusing and interesting. Some of the students had put in days of effort to prepare their outfits and had spent hours on the make-up.



## Online radio programs conducted by C<sup>3</sup>A

A project initiated by the students of SCME on "Online Radio Counseling Portal" approached C3A and requested for a live online counseling programs on Radio Central NUST. Psychologists from C3A conducted three live radio programs on stress management, exam anxiety and procrastination. During the program, students made live calls and discussed their problems with the psychologists.



## SPORTS

### Shahram shines at Jubilee Insurance 40th National Snooker Championship

Being a top-ranked player of Pakistan, Mr Shahram Changezi (an officer at NUST) participated in Jubilee Insurance 40th National Snooker Championship held from Jan 31 to Feb 09 at Movenpick Hotel, Karachi. Shahram, wearing NUST logo on his waistcoat, took a flying start of the season and displayed high class snooker. He defeated Ahsan Javed (Punjab), Farhan Khan (KPK), Muhammad Ishtiaq (Sindh) and Gul Afzal (Isb) to qualify for knockout stage. In pre-quarterfinals Shahram defeated Hunain Amir (Punjab) by 5-1 followed by 5-3 victory in quarterfinals against Baber Mesih. This match was termed the match of the tournament comprising six 50 plus breaks and a century break made by Shahram Changezi. In semifinals, Shahram Changezi demonstrated master class and defeated former world champion

Muhammad Asif by 6-5. In the final, Shahram could not produce his best and stood runners-up in the event. By virtue of becoming Pakistan No.2, Shahram has qualified to represent Pakistan in Asian Snooker Championship to be held in Malaysia and Asian 6 Red Championship at Iran in April and May 2015 respectively. It is pertinent to mention here that Shahram is the only player in the circuit who continued his education (in past) and job along with snooker.







## NUST beat MAJU in hockey

Intersarsity Hockey (Men) Zonal Championship was organized at Naseer Bundha Hockey Stadium, Pakistan Sports Complex, Islamabad during February 12-14. Nine teams (Comsats, MAJU, Poonch, Bahria, Quaid-i-Azam, IIUI, Preston, NUML and NUST) took part in the competition. The final match of the championship was played between MAJU and NUST, which the latter won, thus qualifying for the final round.

## Intra-NUST Cricket (M)

Intra-NUST Cricket (Men) competition 2015 was organized at the Islamabad campus, during February 13-15. Five teams (MCE, MCS, AM College, EME and Islamabad Campus) participated in the event. The final was played between Islamabad Campus and MCS, which the former won by a 156 - 109 margin, after a thrilling competition. Chief Security Officer, Mr Sheikh Aftab Qayyum, was chief guest at the finals, and handed over the trophy to Islamabad Campus team.



## Night Futsal Tournament at MCS

MCS Night Futsal Tournament took place at the boy cadets hostel from 15th Dec 2014 to 17th Dec 2014. This event was organized and conducted by Computer Software Society in collaboration with MCS Telecom Society and IEEE MCS Students branch. A total of 20 teams participated in the event with great zeal with one aim of lifting the champion's trophy.

The first round was played on knockout basis and was held on 15th Dec. All the teams put in their best but only two teams progressed to the finals i.e. 'Mudi 5' and 'The Faqeer FC.' Both the teams put up a great show of footballing skills but after a hard fought battle 'The Faqeer FC' under the captaincy of NC Qamar

snatched the Trophy on penalties (1-0) and were crowned as the futsal champions. PC Hamza Mehmood was the top scorer of the tournament with a total of 11 goals. CO MCS Training Battalion, Lt. Col Arsalan Haider Khan, was chief guest and he appreciated the great efforts put in by the organizing committee.



## Intra-NUST Squash Competition (M)



Intra NUST Squash (Men) Competition 2014 - 15 was organized at the Islamabad campus during 27 Feb – 1 Mar. A total of six teams (MCE, MCS, CAE, AMC, EME and Islamabad Campus) participated in the event. The final was played between Islamabad Campus and EME which the latter won by 2 - 1 score after a very thrilling competition. Dr Ashfaque Hasan Khan Principal S3H, NUST was chief guest along with DD Sports Mrs Robina Anser at finals and handed over winner trophy to EME team.

## Intra-NUST Volleyball (M)

Intra-NUST Volleyball (Men) Competition 2014 - 15 was organized at indoor hall, CAE, Risalpur during 23-25 Jan. Four teams (MCE, MCS, CAE and Islamabad Campus) participated in the event. The final was played between MCS and Islamabad Campus which MCS won by 3 - 2 after a nail-biting competition. Group Captain Shehzad Ashraf was chief guest at the opening ceremony, while Gp Capt Nadir Munir HoD CAE was chief guest at finals and handed over winners trophy to the MCS team.





## 04

## COMMUNITY SERVICE



## Flood donation distribution ceremony



NUST Community Service Club (NCSC) in collaboration with NUST Administration organized a flood donation distribution ceremony on 24th January 2015. The ceremony was arranged to distribute cash donations among NUST NG staff whose properties got destroyed due to the ravaging floods in Punjab in 2014. Flood donation campaign was successfully carried out by NCSC and its TABA team members in which 3

lac rupees were collected. NCSC invited applications from all NG staff members across the H-12 campus whose property was damaged due to heavy floods. Director Administration Mr Arif Mahmud Siddique, Principal SMME Dr Ghafoor and NCSC faculty sponsor Dr Irtiza distributed the donations among the affectedes.

## Quilts worth Rs1 million distributed among IDPs at Bannu

Allied Bank Limited donated a generous amount of Rs1 million for NUST relief campaign for Internally Displaced People (IDPs) towards the end of year 2014.

NUST administration along with NUST Community Service Club (NCSC) and its allied team TABA ran a relief campaign for the IDPs affected by army operation in North Waziristan. The campaign was launched back in July 2014. NUST IDPs relief campaign raised an impressive collection of fifty-five lacs for the IDPs. The funds generated in this campaign came from a massive donation drive conducted by the team, contribution from the alumni and NUST administration. Allied Bank's contribution of Rs1 million brought the total amount



of collection to sixty-five lacs.

Allied Bank Ltd. representatives, Mr MirzaHussnainRaza, Group Head (RGB North) and Mr Sajjad

Hussain, Regional Head RGB Islamabad, handed over a cheque of Rs1 million to NCSC students. Since the IDPs were being forced to

live in tents or temporary homes, NUST admin, Col. Mehmood Wazir along with volunteers of the relief campaign identified the need of donating quilts to help the IDPs curtail the winter cold.

As many as 1000 quilts were donated by Allied Bank Ltd. and were distributed in Bannu on 3rd January. NUST students had to personally distribute the quilts but due to the unfortunate Peshawar incident, the trip was delayed. Later NUST administration decided to send only a truck of quilts to Bannu with the help and support from Col. Mehmood Wazir.

On Wednesday, 28th January, a team of NCSC including NCSC Faculty sponsor Dr Irtiza, Assistant Managers Ms. Maheen and Ms. Sehrish along with student team leaders of the relief campaign, Ms. SadiaKahf and Mr Ali Khalid Qureshi visited Parliament Secretariat to hold a presentation ceremony. Quilts were presented to



**Lt. Gen. (R) Abdul Qadir Baloch, Minister for States and Frontier Regions, with a group of volunteers of NUST IDPs relief campaign. The students presented quilts worth Rs1 million donated by Allied Bank Ltd. to the campaign.**

Lt. Gen. (R) Abdul Qadir Baloch, Minister for States and Frontier Regions. Col. Mehmood Wazir was also present at the ceremony. The minister met the team and commended the efforts of NUST for the IDPs affected by operation in

the northern territory. He also appreciated all the donors for their generous contributions. The minister also thanked Allied Bank Ltd. for playing their part in the relief campaign.

## Best community service projects recognized

NUST Community Service Club (NCSC) organized "Community Service Learning- CSL-401" award ceremony on 18th February at SMME Auditorium as a token of appreciation for the dedicated and altruistic teams of NCSC which carried out impressive community service projects during the year 2014.

The team leaders of different projects, viz. volunteer work at SOS village, storytelling session at Pakistan Sweet Home, seminar on "Emerging Viral Threats," clothes donation drive at NUST, spot-fixing, career counseling at Cadet College Hassanabdal, biogas project and Radio Central NUST project briefed on their respective projects. The principals and faculty advisors of all



participating schools of NUST in Fall semester 2014 were also present at the ceremony. The chief guest Mr Mahmood Bashir Bajwa was then invited on stage to distribute certificates among the teams.



## NCSC launches NUST Book Bank

The NCSC ACM (Association of Computing Machinery) team launched NUST Book Bank. It is the first of its kind, aiming solely to benefit the students all over the NUST campus. The team's mission is to help fellow students in their academic pursuits.

NCSC ACM team provides a platform where the senior students or graduating students can help the juniors simply by donating course, reference books and other fictional books as well. The project follows "Donate One Get One" policy, which will enable students to donate old books and get new ones in return, and thereby benefitting their academic prospects through increased knowledge-related resources. Dr Arshad, Principal SEECS and Mr Ehsan-ul-Haq, DD Student Affairs officially inaugurated the book bank on January 23.



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## Community Service Learning course (CSL-401) Workshop on “Deriving Inspirations”

The workshop titled “Deriving Inspirations” was conducted on 24th and 26th February at NIT auditorium. Dr Irtiza, the course (CSL-401) director, conducted the workshop. He enlightened the participants with the essentials of community service. Giving The workshop started with a reference of Islam and many Quranic verses and Ahadith inspiring the youth towards community service and also to tell people how much stress our religion puts on helping those in need and community work.



## Volunteer Counseling at *Kaus-e-Kaza* by C<sup>3</sup>A

Counselling is the flagship component of Centre for Counselling and Career Advisory (C<sup>3</sup>A). In order to extend this provision for Community Service, C<sup>3</sup>A visited *Kaus-e-Kaza*, which is an independent non-governmental school. It has been working to meet the needs and protect the interests and rights of mentally challenged children since 2001. Managing and dealing with this client group has been a challenge for *Kaus-e-Kaza*. C<sup>3</sup>A has committed to render its services for these children with learning disabilities, behavioral and emotional problems on volunteer and monthly basis. The team has also discussed and shared useful tips for better engagement and dealing of these children with teachers and the Principal.



## Installation of water motor pump in Chishtiabad, Rwp

Chishtiabad, located in the north of Golra Mor, Rawalpindi was surveyed by students of NUST. The visit was quite revealing as there was no water supply system provided by the government and the residents were not capable to install water boring system on their own due to financial instability.

The location consists of 5 streets containing 500-700 people. In with collaboration of NCSC and the students who took the initiative, a motor pump was installed at the location after boring in one of these streets as decided by the local authorities. The cost incurred for the project was PKR 1, 75,000/-.



## CSL-401 Spring 2015 Orientation Session

Community Service Learning (CSL-401), is a compulsory course taken up by every final-year student at NUST. An orientation session, to familiarize the students with the course, was held on the 18th and 20th of February 2015 at the NIT auditorium for SEECs and SCEE students, PG students from RCMS, SCEE and SMME. The speaker, Dr Irtiza, talked at length about the importance of helping the community through fulfilling their needs. He then gave a brief overview of the course details.





05

NEWS IN PICTURES



▲ Opening Ceremony for UNMOC-7 was held at CIPS on 16 March 2015. Ambassador (R) Masood Ahmed Khan was chief guest for the event. Defence attaches from Egypt and Bangladesh and reps from UNMOGIP and various UN agencies also attended the function.

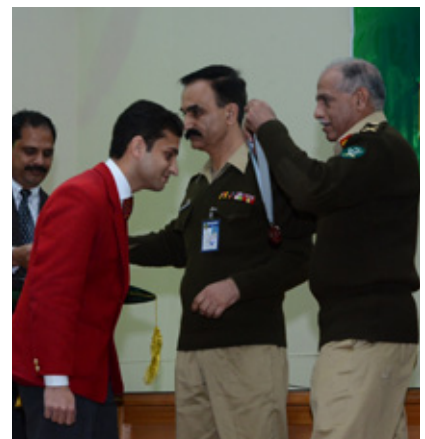


SMME - Dr Abdul K M Paata visited SMME on 25-02-2015



SMME – Mr Muhammad Musaddiq, CEO of MS Siddiqe Leather Works (Pvt) Ltd Lahore visited SMME on Feb 17, 2015

▼ 32nd Medal Distribution Ceremony of the Army Medical College







▲ Guest Lecture on Flood Management in Pakistan by Engr Alamgir Khan on 3 Dec 2014



▲ Seminar on Intellectual Property was conducted by Ms Erum Zaidi on 18th February (2015)



Technology Incubation Centre launches Seed Grant Competition in collaboration with the National Academy of Sciences, US Embassy and USAID



▲ C<sup>3</sup>A conducted an interactive session on "Effective Classroom Management" with faculty of PNEC Karachi.



▲ Visit of C<sup>3</sup>A students to drop-in-centre of the Society for the Protection of the Rights of the Child to understand career development issues of street children.



▲ Zainab Alam student of C<sup>3</sup>A conducted career related activity with the students of Lawrence College Murree.



# *The NUSTIAN 2015*

*Bilingual Literary  
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Students, faculty and staff of all the campuses of NUST are encouraged to send their Essays, Poems, Book Reviews, Caricatures, Short Stories and Quality Jokes for inclusion in the forthcoming issue of the magazine.



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