

BI-MONTHLY

NUST News

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



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Relief Campaign for IDPs

NUST call for donations amasses generous response

Operation Zarb-e-Azb was launched by Pakistan Army to completely wipe out the enemy in North Waziristan. As the operation continues to eliminate the most dangerous threats to Pakistan, about 900,000 people of North Waziristan had to leave their homes to seek shelter at the safe places.

Being aware of the fact that the internally displaced people (IDPs) are in dire need of basic life necessities, NUST Community Service Club (NCSC) along with NUST Administration started a fund raising campaign for the affected masses. The massive donation drive received generous contributions from both the NUST administration and the University's alumni i.e., NUST employees and faculty donated their one-day salary amounting to Rs 3.5 million; the University's alumni contributed Rs 150,000, while the NCSC team collected Rs 1,450,000 through its robust campaign.

With a view to appositely spending the donations, NUST administration decided to extend support for the IDPs through Pakistan Army. Therefore, the University officials approved the suggestion of Col. Mehmood, who is a Wazir himself and belongs to Bannu, taking the responsibility of as many as 20 families taking refuge in Government Degree College Landi Jhalandar, District Bannu. A student of NUST in Bannu along with the help of Dr. Arshad of University of Science and Technology, Bannu, had compiled the list of the families living there. One of the major problems identified was the unavailability of sufficient water. The power supply with a voltage of 70 volts was not sufficient to meet the power requirement of a tube well available there. After a meeting with NUST Alumni Association President Mr. Ammar and MCS alumnus Mr. Mansoor, it was decided that the association would provide the generator (now functional) and a regulator for the tube well.

Director Administration Mr. Arif Mahmud Siddiqui floated the idea of providing some sports equipment and Eid gifts for the families to bring a feeling of "life is returning" among those families. The sports equipment, consisting of 150 bats, tennis balls, volleyballs and footballs, was provided by Col. Qaiser (Army Sports Dte). Eid gifts were purchased and packed by a team of students from NUST. The gifts included unstitched clothes for ladies and gents; shawls for ladies; readymade clothes for children; toy cars for little boys and dolls for girls;



coloring books and pencils; *mehndi* (henna) and bangles; colorful hairpins and ponies for girls; goody bags containing candies for children and washing powder for those families

On Wednesday, July 23, 2014 a team of 13 students along with Director Administration Mr. Arif Mahmud Siddiqui, Col Mehmood and Assistant Manager (Community Service) Mr. Athar Mushtaq went to the college in Bannu to meet the IDPs. A cheque worth Rs 3.5 million was presented to Brig. Aftab Commd 475 Engrs Bde Gp/45 Engrs Div. The male students distributed Eid gifts among men and children and female students distributed among women and young girls. A cash of Rs 5,000 was given to each family by the students. The students spent almost two hours with the IDPs, while the representatives from Pakistan Army briefed the team about the state of the IDPs and relief work done for their welfare. It was after the feedback received from the Army authorities and the IDPs that the other basic needs of the affected people were ascertained. The NUST efforts will continue till the proper rehabilitation of the displaced people. NUST team is looking forward to generous contributions from all the well-wishers and compatriots towards this noble cause. The contributions can be in the form of cash or above mentioned items.

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NUST 8th Postgraduate Convocation and DISCOVER Prize Distribution Ceremony



MS/ MPhil and PhD scholars received degrees in the disciplines of engineering, medical sciences, management sciences, information technology, physics and mathematics during the 8th Postgraduate Convocation of NUST held here at the University's Jinnah Auditorium on May 07. President of Pakistan Mamnoon Hussain graced the occasion as chief guest. Chief of the Army Staff General Raheel Shareef also attended the convocation. Other than degree recipients, their parents and faculty, the ceremony was also attended by a large number of civil and military officials.

A total of 324 MS and MPhil scholars were conferred degrees in their respective fields, while 35 were awarded PhD degrees in various disciplines. Furthermore, 35 MS/ MPhil scholars were awarded gold medals for their distinctive performances in their respective areas of study.

NUST never forgets to acknowledge the meritorious contributions of its esteemed faculty towards academic and research pursuits by conferring Best Teacher and Best Researcher Awards to the distinctive performers. Dr Yasar Ayaz from School of Mechanical and Manufacturing Engineering (SMME)

was awarded Best Teacher Award for the year 2013. Similarly, Dr Saad-bin-Qaiser from School of Electrical Engineering and Computer Science (SEECs) was awarded Best Researcher Award for the year 2013.

After awarding degrees and medals to the successful scholars and distributing cash prizes among the winners of DISCOVER-Prime Minister's Entrepreneurial Challenge 2012-13, President of Pakistan addressed the august gathering. He extended his warmest felicitations to the degree holders and their proud parents. Counting the achievements of NUST made in a short span of time, the chief guest termed the University a national asset dispensing its duties with a team of committed professionals. He eulogized NUST for instituting a system geared up for the provision of a congenial environment for the holistic development of the students. He went on to mention that the NUST was significantly contributing to the evolution of a knowledge-based socio-economic culture in the country to help the nation face the modern challenges of globalization.

He advised the learned scholars to make optimal use of the expert knowl-

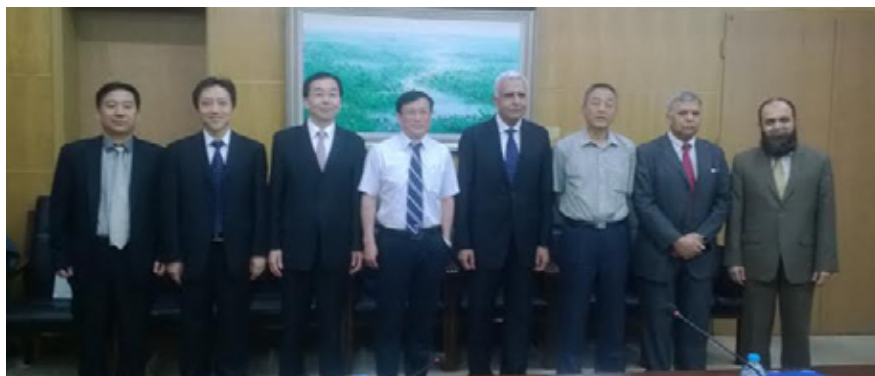
edge gained at the university towards its applications in a number of diverse fields. He cajoled them into focusing on the modern technology and remaining abreast with the latest developments occurring in their respective domains. The chief guest motivated the recipients of the highest degrees to aim at excellence and carve out a respectable niche for themselves and their motherland in these epoch-making times.

The President also congratulated the winners of DISCOVER 2012-13, adding that NUST was playing a pivotal role towards the promotion of entrepreneurial culture in the country. The esteemed guest also launched DISCOVER 2014 at the occasion.

Earlier, Rector NUST Engr. Muhammad Asghar presented a brief summary of the University's achievements to the distinguished gathering. The Rector congratulated the degree holders on their remarkable achievements. He also remarked it was a good omen that the number of female scholars was increasing with every passing year. He wished them all the best in their future endeavours.

NUST delegation visits Chinese varsities

A two-member delegation of NUST headed by Dr Asif Raza, Pro-Rector (Academics) and Engineer Syed Mohsan Shah, Director NIO visited China from June 16-19, 2014. The delegation visited Beihang, Tsinghua and NCEPU universities for the promotion of existing linkages with partner universities. NUST delegation visited different labs, met with university officials and also signed new MoU with NCEPU (North China Electric Power University).



ASAB faculty's achievement



Dr. Muhammad Tahir, HoD Plant Biotechnology Department, ASAB, has been awarded "The Norman E. Borlaug International Agricultural Science and Technology Fellowship" for the year 2014. This opportunity will allow him to work one-on-one with Prof. Judith K. Brown, University of Arizona, USA in the field of Cotton leaf curl disease and to apply knowledge gained toward the continued development of the agricultural sector in Pakistan. The USDA Foreign Agricultural Service in cooperation with the U.S. Agency for International Development (USAID) will provide funding for his participation in the Program. This includes travel to and from the United States, tuition/training costs, emergency medical insurance, and food and housing expenses during the program for a period of 12 weeks.

The Borlaug Fellowship Program honours Norman E. Borlaug, the American agronomist, humanitarian and Nobel laureate who is known as the "father of the Green Revolution. The fellowship Program promotes food security and economic growth by providing training and collaborative research opportunities to fellows from developing and middle-income countries. Borlaug fellows are scientists, researchers or policymakers who works one-on-one with a mentor at a U.S. University, re-

search centre or government agency, usually for 6-12 weeks. The U.S. mentor will later visit the fellow's home institution to continue collaboration.

Publication of research paper in reputed journal - MCE

A research paper titled 'Vacuum Distribution with Depth in Vertical Drains and Soil during Preloading' authored by Dr. Abdul Qudoos Khan of Military College of Engineering and Prof. Dr. Gholamreza Mesri of University of Illinois at Urbana Champaign, USA has been published in April 2014 in 'Geomechanics and Engineering – An International Journal, a well reputed, ISI indexed journal, by Techno Press, South Korea. The journal has a five year impact factor of 0.331.



Amcolians observe World Thalassaemia Day



In a country where about 5000 children with thalassemia are born every year and 5 out of every 100 people are thalassemia patients, where awareness about this genetic disorder is negligible, where the preventive practices are non-existent and expenditure for its treatment is unaffordable for the majority, the first step to eradicate this inheritable disorder is to create awareness among the masses.

Keeping this year's theme in mind, Amcolian Blood Donor's Society in collaboration with Paeds Department MH celebrated the World Thalassaemia Day on 10th May 2014. About 50 children suffering from thalassemia along with their parents were invited to attend the scientific session and activities for the kids. The event started with a scientific session where Maj. General Salman Ali Principal HI(M) Army Medical College, Maj. General Muhammad Ayub Comdt AFIP, Maj. Gen (R) Suhaib Ahmed Consultant hematologist, Maj. General Pervaiz Ahmed Comdt. AFBMTC and Brig. Munir Ak-

mal Lodhi Classified Child Specialist elaborated about various aspects and recent advances in the field of thalassemia treatment. The session was attended by cadets of AMC and parents of children suffering from thalassemia. At the end of the session, a few thalassemia children came up on stage to share their story with audience. Not a single eye remained dry hearing the heart rending struggles of the children and their dreams for their future.

Meanwhile, the thalassemia children were involved in various group activities with the cadets which included a musical segment, face painting, games and screening of an animated film.

The aim behind celebrating this day was to motivate the very families who have been affected by this debilitating disease to become awareness creators for thalassemia prevention in their respective communities.

Senior sapper officers gather at MCE

Senior Sapper Officers' Get-together was held at MCE on 10th May 2014. More than 50 retired and serving senior Sapper Officers of the Corps of Engineers attended the get together. These esteemed guests included various ex-commandants of the alma mater and ex-Engineer-in-Chiefs of the Corps of Engineers. Founding and incumbent Rectors of NUST Lieutenant General (R) Syed Shujaat Hussain Shah and Lieutenant General (R) Muhammad Asghar also graced the occasion with their presence. The purpose of the get together was to revive old memories of the Alma Mater and to brief esteemed guests about development in training and infrastructural at the College through ages. The get-together was also valuable in terms of having valu-

able inputs from the visiting dignitaries for further development in training and facilities.



World No Tobacco Day – AM College

Smoking has multiple implications on general health as well as oral health. Specifically talking about oral health it badly affects gingival health, causes excessive plaque accumulation, discoloration of teeth, halitosis (bad breath), oral thrush/fungal infections, reduces the ability to taste and smell and is the commonest cause of oral pre cancers and cancers. If talk about dental treatment, post operative complications occur at a higher risk, impaired healing potential makes smoking an absolute contraindication to provision of dental implant. Smokers are at higher risk of coronary artery diseases, cerebrovascular disorders so it affects the dental

treatment offered to them in many ways, limiting their treatment modalities.

31st May is recognized all over the world as “No Tobacco Day.” Each one of us is well-versed with the harmful effects of tobacco. Even those who smoke know how harmful it is for their health. This year’s theme of this day was to increase taxes on the cigarette and related products so as to discourage their use.

The Armed forces Institute of Dentistry AFID, first tertiary care dental hospital of the region in collaboration with Army Medical College, observed World No Tobacco Day on 2nd June.

With sponsorship of Pharmaceuticals, the non-nicotine dermal patches were introduced for those who want to quit smoking. Besides this there was a poster session for creating awareness, pamphlets and brochures providing awareness and information to population regarding smoking health hazards and the product details, respectively.

This activity was organized by Dr Sana Tariq, Capt Quratulain Qadir, Capt Maliha Tariq with the assistance of Dr Saira Ibrahim, Dr Khadija Rizvi, Dr Nida Mukhtar and Dr Sabeen Babar under the kind supervision of Col Azad Ali Azad (Deputy Commandant) and Brig Waseem Ahmed (Commandant AFID).



EME students win laurels for NUST

The undergraduate students of the Department of Mechatronics Engineering, NUST College of E&ME achieved outstanding successes in the various co-curricular events around the country. In the Robo Navigation contest (a part of the Punjab Youth Festival in Lahore) held in March this year, the students secured all top three positions up for grabs. In the NEO (National Electronics Olympiad) held in Ghulam Ishaq

Khan Institute (GIKI) in February, the first and third prizes were won. Teams also performed exceptionally well and secured the winning positions in Robo Wars competition held in SEecs in March, in the Robo Sprint Lego Robot competition (a part of NASCON 14) held in FAST Islamabad in April and in the Robo Quest competition (a part of IEEE Week) held in Lahore in March this year.



MCE faculty's distinction



Major Dr Muhammad Maqbool Sadiq of MCE has been granted intellectual property rights by the U.S Patent Office, as the first inventor in the field of Ultra-High Performance Concretes. The title of his patent is Ultra-High Performance Concrete Reinforced with Low-Cost Graphite Nanomaterials and Microfibers, and Method for Production Thereof. This patent was based on the PhD research of Dr Muhammad Maqbool Sadiq which he carried out at Michigan State University,

East Lansing, USA. This patent is, however, unique in a sense that in the well-trodden area of civil engineering, new products and methods are very rare and unique. This is a distinctive honour for a scholar to be awarded a patent in the area of his research and Dr Muhammad Maqbool Sadiq is the first Pakistani to have been awarded a patent in the area of civil engineering, in the recent past.

Collaborative Internship Programme between RCMS and UAF

A three-month internship programme for the five internees from the University of Agriculture, Faisalabad concluded with a certificate award ceremony on 10th June, 2014 at RCMS. During their stay, the internees went through an extensive training programme of learning both academic and professional development skills. To enhance their problem based learning skills, they were introduced to various modelling and simulation tools and environments such as Matlab, Minitab and Linux OS etc. Visits to various NUST schools were arranged to foster their interest in multidisciplinary research environment. Study tours to Pakistan Meteorological Department and SUPARCO provided them an insight in remote sensing, Agro-Climatology and Agronomy.

To interact and learn from international research community, they attended iCreate' 2014 international conference organised by SMME. The internees also attended the 8th PG convocation and the closing ceremony of PDC workshop on Entrepreneurship. They were encouraged to participate in extra-curricular activities such as NUST Walk on Forest Day, tree plantation and RCMS-ASAB joint Sports Gala. The internees also visited various attractions in Islamabad including Pakistan Monument Museum, Lok Virsa, Daman e Koh and Centaurus Mall.

Meanwhile, Internship program for students from University of Agriculture Faisalabad was conducted from 5th May to 8th May 2014 on "Introduction of Geographical Information System (GIS) and Remote Sensing (RS) and its application in Agriculture". The activities included short courses on 'Getting started with GIS' and 'Learning ArcGIS for Desktop' conducted by Dr. Javed Iqbal, HoD IGIS-SCEE and a lecture on 'Introduction to GIS and Remote Sensing' and 'Introduction to Remote Sensing of Vegetation' by Ahsan Mehboob. The students were also given hands-on training on various GIS applications in agriculture.



Establishment of AIChE NUST chapter

NUST Science Society has got the approval of the American Institute of Chemical Engineers (AIChE) to open a chapter of their organization at NUST. The AIChE is an organization dedicated to the proliferation of research related to chemical engineering and its sub fields around the world. Members get access to all sorts of information relating to their core subjects and specializations.

The chapter of AIChE at NUST will do all that the organization itself, does. It will provide its members with the latest information and research on the methods and processes and equipment being used in the world today and become a platform for them to reach out beyond the borders of the University and the Country in to uncharted territory (at least for the students).



NEWS IN PICTURE



▲ Multi Discipline Event - EMCOT-2014 at COMSATS Institute of Information and Technology – 12-13 May. PNEC won 2nd Position.



▲ Lecture by Dr. Nadeem Ahmar on Oil and Gas Potential in Pakistan - 30 April



▲ PEC team accreditation visit, PNEC – 13 May



American Naval Officers Dinner at PNS Jauhar- 11 May. Chief of Naval Staff Admiral Muhammad Asif Sandila also graced the occasion with his presence.



▲ Cyberspace CBMs between Pakistan and India: A book authored by Dr Tughrul Yamin launched in May



Unveiling of Formula NUST Car (NAS'14) at PNEC - June 10





▲ CIPS faculty meets with Hanns Seidel Foundation delegation at NUST HQ – 22 May



▲ UN Military Observers' and UN Staff Officers' Courses conducted at CIPS - 5 to 16 May.



▲ Prof. Dr. Markus Kaim delivers a lecture on "Germany, the Ukraine Crisis and the Future of Euro-Atlantic Security," at CIPS - 30 May



▲ In-Situ Training for UN Missions by CIPS - 12 to 16 May



▲ MCE students visit Askari Cement Factory, Wah



◀ NICE students visit Daducha Village for dam site geological investigation- 29 April



Khanpur Dam by NICE ▶ students - 7 May



Interactive session with directors, principals of Federal Directorate of Education, Islamabad – 20 June

NICE conducts Interactive Session on Road Safety Awareness with IG Motorway Police



NUST Bazm e Pakistan (NBPK) arranged an Interactive Session on Road Safety Awareness with Zulfiqar Ahmed Cheema on 14th May, 2014. Mr. Cheema is currently serving as IG Motorway Police and has served on a multitude of sensitive and important assignments in police department all over the country.

Cheema divided his session into two parts, initially he spoke on traffic rules and road awareness and afterwards he defined his views on the global image and prosperity of Pakistan. He said that Motorway Police had become an icon of excellence in Pakistan. The United Nations had declared Motorway Police as the only corruption free institution in the public sector of Pakistan. The speaker regretfully exclaimed that there lied no concept of road safety or awareness in

Pakistan. Neither the media nor our education system addresses the nation on traffic rules. The causes for road accidents are mainly due to drivers' negligence, over-speeding, possession of an improper license, not wearing seat belts, usage of cell phones and breaking of traffic signals. Motorway Police, although being very strict in imposing justice on the road, help commuters in trouble. He described the three E's important for road safety; Engineering, Education and Enforcement. Motorway Police now have the latest tools and machines required to handle any distress on the road.

In his second phase of session Cheema illustrated the current grim image of Pakistan whilst being optimistic that the youth would indeed dawn a new system in Pakistan. He said that God Almighty has given every natural resource and manpower to Pakistan. The only need was to put our education and talents to good use and build Pakistan to new heights. The speaker shared some of his own personal experiences and the brave work done by Quaid-e-Azam and Allama Iqbal. Towards the end, there was a question and answer session followed by a quiz, in which the winners were awarded prizes. Pro-Rector NUST, Engr. Muhammad Shahid also answered a question regarding road safety and regulations in NUST and thanked the IG for sparing time from his busy schedule and making an appearance. Souvenirs were presented at the end.

NUST Bazm-e-Pakistan once again pulled off an exceptionally thriving event as the academia semester also comes to an end.



Workshop on Handling of Laboratory Animals

The use of proper restraint and handling techniques reduces stress to animals and also to the researcher. Handling stress represents an experimental variable and should be minimized whenever possible. 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 7 May 2014 in Pharmacology department's research lab and lecture hall.



Event was inaugurated by Brigadier Akbar Waheed SI M , Head of the Department of Pharmacology and Therapeutics and was attended by 30 postgraduate trainees of different departments of Army Medical College. Valued services of two experienced facilitators on the subject, Dr. Hussain Ali, incharge animal house of NIH 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 and interactive sessions. Animals were arranged from animal house of Army Medical College.

On completion of workshop certificates of attendance were awarded to the participants. Maj Gen Salman Ali HI(M), Principal Army Medical College addressed the participants. Honorable chief guest commended the keen interest and eager response displayed by the postgraduate trainees of various disciplines. He stressed the need for holding such useful activities on regular basis.

Awareness Workshop on outcome-based Education

Quality Assurance Directorate at NUST organized a workshop on Outcome Based Education, at NUST H-12 Campus on 30th May. Professor Dr. Saeed-ur-Rehman, Member IEA Working Group of Pakistan, was the resource person. The seminar was attended by Principals / Deans / HoDs, DLQECs and Senior FMs of NUST Engineering Institutions in connection with the preparation of Self Assessment Reports as per requirements given in OBA Manual 2014. Chief Guest of the Ceremony was Dr. Asif Raza, Pro-Rector (Academics) NUST. During his opening address, he emphasized the need to improve and standardize the engineering education vis-à-vis the importance of getting the permanent membership of Washington Accord. He informed the house on

the importance of assuring the quality of education at NUST and International level. The Chief Guest asked the participants for their full cooperation in effective implementation of Quality Assurance (QA) process at NUST. PEC has issued Outcome Based Assessment (OBA) Manual -2014 for implementation by the engineering institutions of their programs. Dr. Saeed-ur-Rehman,

gave a comprehensive presentation covering major aspects of the theme and their relevance with each other. The presentation was followed by an extended question and answer session. Lastly, Dr. Asif Raza, Pro-Rector (Academics) urged upon NUST Engineering Institutions to take the implementation of quality assurance policies and programs very seriously. He stressed upon importance of the Outcome Based Assessment (OBA) which enables the departments to know their strengths and weak areas in the realm of quality education.



Three-day Energy Workshop

A three-day Workshop on Sustainable Solution of Energy Crises via Academia in Pakistan with the overarching theme of bridging Government, Industry and Academia was convened jointly by UET Peshawar, the British Council and the University of Cambridge at Serena Hotel on March 20-22, 2014. Dr. Mohammad Bilal Khan, Principal/Dean CES-CAS NUST and Dr. Irshad Hussain

(LUMS) served as Mentors for the esteemed event. Ten distinguished delegates from the University of Cambridge participated and presented papers on this occasion. Principal CES in his talk shared the energy systems analysis approach to guide decision making about promising research directions and to identify performance targets for new energy technologies. Highlighting the gain in solar installations throughout the world, he informed the audience that the Solar PV industry is growing rapidly and the total solar deployment globally had crossed the 55 GW mark; the non-conventional solar PV such as Thin Films now occupy 15% of the market share. Referring to the silicon-PV, the energy cost analysis shows

that 70% of the energy is consumed in producing the solar cell, while only 30% is spent in panel production and system integration. Owing to the one third energy requirement and the labor intensive nature, paneling and system integration make good feasibility for a country like Pakistan. The analytical and experimental research work being pursued at CES-NUST in the areas of solar PV, solar thermal and fuel cells was also shared with the audience.

The concluding session was presided over by distinguished scientist, Dr. Samar Mubarkmand who delivered the concluding speech and distributed shields among the speakers of the workshop.



Strategies for Managing Procrastination Workshop held by C3A

The hardest thing about studying is actually sitting down and doing it. Procrastination is always a big problem for students of any age especially for university students. It is a frustrating habit that keeps students delaying their important tasks up to the last moment. The key is to recognize the behavior, name it and then treat it.

A one-day workshop was arranged for students entitled "Strategies for Managing Procrastination" at C3A by Ms. Noreen Akhter (Psychologist). The objective of the subject workshop was to make students understand the phenomena of procrastination, its possible causes and its management. They were also introduced to the strategies employed to avoid delaying those tasks.

Students actively participated in the workshop and gave a very positive feedback. The students also reported that they had benefited from the training and would appreciate such trainings in future.



C³A organizes Parenting Skills Workshop

After the successful completion of the self-development workshop, C3A organized a session on effective 'Parenting Skills.' The participants were mostly mothers concerned about adapting methodologies for improved child rearing.

C3A conducted this workshop on June 11, 2014 and was well received by the participants. The presentation was based on activities to help mothers identify existing patterns that inhibit healthy parent-child relationship. The affects of nurturing on children,

role modeling and birth-order were highlighted to understand the dynamics and demands of child rearing. The pressures on children and parents from the society were assessed especially on working mothers and the challenges they have to face. The focus was laid on making parenting a happy experience and coping and handling of children through difficult stages.

Overall the workshop was a success with active participation and encouraging feedback from the participants.



Workshop familiarizes students with new generation designing software

A two-day workshop on Autodesk Revit was held in SCME, NUST, on 3-4 May, 2014 which was aimed at familiarizing students with the new generation designing software. All 30 partakers from various institutes were delighted to have been part of a learning experience organized by NUST Science Society for the first time in the twin-city region.

BIM (Building Information Modeling) soft-wares like Revit are considered to be a revolutionary breakthrough in the construction industry, as they allow users to track the entire lifecycle of a building, and have greatly enhanced collaboration amongst architects, MEP engineers and designers, who are all jointly involved in the making of a building.

The two facilitators of the workshop have used the software extensively during their research with NESCOM (National Engineering and Scientific Commission). The attendees were introduced to the concept of BIM, and then to its top software, Autodesk Revit. One of the instructors described Revit as "not just a modeling software, but a database".

After being acquainted with the software's interface, the students were guided through a practice session, in which they were taught architectural and structural modeling, as well as work sharing. The workshop concluded with a certificate distribution ceremony.



Int'l Conference on Economic Development through Higher Education



The International Conference on Economic Development through Higher Education was held at the HEC auditorium on April 24-25, 2014. The event was jointly organized by HEC, Campus Consultants UK and UET Peshawar. Several distinguished delegates from UK shared their vision and spoke on relevant themes such as Global Multi-Campus Higher Education Models, Improving Life Quality for Communities, Development of Future Leadership, Research and Technology, and Quality

Workforce.

Principal/Dean CES-CAS NUST, Dr. Mohammad Bilal Khan presented a keynote paper on the Centers for Advanced Studies (CAS) project, designed by USAID and the Higher Education Commission of Pakistan (HEC) to support Pakistan's economic development by strengthening the relevance and responsiveness of university products, including applied and policy research and skilled graduates, to the needs of the public and private sector. The project

will create a cadre of effective graduates for employment in the private and public sectors in food security/agriculture, water and energy. Each CAS will form public-private partnerships and interest-specific networks by bringing together the best minds in academia, government and the business community to produce research solutions to some of Pakistan's greatest challenges in food security/agriculture, energy and water.

Second National Conference - AM College

Pakistan Association of Medical Editors (PAME), in collaboration with the Eastern Mediterranean Association of Medical Editors (EMAME) Health Research Advisory Board, held its Second National Conference at the University of Health Sciences in Lahore on April 26-27 2014, with 358 participants coming from across Pakistan. The scientific programme of the conference started with a seminar on how to run a successful biomedical journal in which five senior editors of biomedical journals from Pakistan participated Chief Editor of Pakistan armed forces medical journal (PAFMJ) and principal Army MEDICAL College Major General Salman Ali, HI (M), Editor PAFMJ Brig Rizwan Hashim. Joint Editor PAFMJ Col Naila Azam and Assistant Editors PAFMJ Lt Col Khadija Qamar and Maj Syed Fawad mashhadi The invited guest speakers included Professor MB Rokni, from Tehran University of Medical Science, Editor of the Iranian Journal of Public Health and Iranian Journal of Parasitology, and Dr Behrooz Astaneh from Shiraz University of Medical Sciences, Editor of the Iranian Journal of Medical Sciences, who is also

a Council Member of the Committee on Publication Ethics (COPE).

The topics discussed included: editing qualitative studies in medical education, unusually frequent submissions from a single author, study design and statistical analysis (the editors dilemma), analysis of qualitative-based study designs, citation amnesia, tribulations of reviewing a journal manuscript, the audit of medical journals of Pakistan, statistical flaws in manuscripts submitted for publication, burnout syndrome among medical journal editors, the problems and challenges faced while running a specialty journal, the impact of maintaining a website of journals, the profile and pattern of dental research in Pakistan and the benefits of mutual cooperation among journals.

The conference also included four concurrent workshops on: medical writing (facilitated by Mr Shaukat Ali Jawaaid and Professor Anwar Siddiqui); journal indexing (facilitated by Professor MB Rokni); publication ethics (facilitated by Dr Fatema Jawad, Dr Behrooz Astaneh and Dr Muhammad Iran); and electronic publishing (facilitated by Dr Masood Jawaaid and Dr Akhtar Sherin).

Another highlight of the conference was the launch of the PAME Online Learning Resource for Editors designed and produced by Dr Masood Jawaaid.

Weekly Seminar Series by RCMS Faculty

Faculty at RCMS conducted a weekly seminar series during Spring, 2014. Weekly Seminar concept was initially introduced in Fall' 2013. Theme of the series this time was to highlight importance of multidisciplinary research and collaboration, as an essential tool to tackle the challenges of the 21st Century. The Seminar Series included lectures relating to the fields of Computational Drug Design, Flight Mechanics, Computational Fluid Dynamics, Graph Theory, High



Performance Computing, Cellular Networks, Probabilistic Distributions and Networks Performance and Analysis. The platform offered an exciting and rewarding experience to the participants as well as a good opportunity to the faculty to showcase their areas of interest and expertise.

Hitting the Road on Mars: Reaching out into the Solar System- A talk by Zainab Nagin Cox

Zainab Nagin Cox, engineer for the Mars Curiosity Rover project of the National Aeronautics and Space Administration (NASA), was invited by NUST School of Mechanical and Manufacturing Engineering (SMME) to speak about her experiences titled, "Hitting the Road on Mars: Reaching Out into the Solar System" on 20 May, 2014 at the SMME Seminar Hall.

Zainab is currently working on Mars Science Laboratory (MSL), formerly serving as the Assistant Flight System Engineering Manager and is now part of the mission operations team operating the rover on Mars. She has spoken to audiences around the United States, Europe, and the Middle East on the stories of the people behind the robotic space missions.

In her talk, Zainab discussed various projects that NASA had been involved in, on reaching and exploring Mars. She talked about the technical difficulties and the engineering solutions that made those projects possible; and the successes that were met in terms of water exploration and other surveys of Mars' surface.



MCE clinches AP Declamation Contest

MCE participated in APDC 2014 at Khyber Medical College Peshawar. The competition took place from 20th to 22nd May 2014. The team from MCE comprised GC Umer Anjum and GC Irtiza Ziyafat in English serious and Urdu humorous categories. The competition was attended by more than 35 teams from all over Pakistan. The team of MCE performed outstandingly well and after a series of competitive debates managed to win the championship.



SEECs- Farewell 2014

It was time of the year to say goodbye to the graduating class of 2014 at SEECs. Juniors arranged a splendid show in honor of Senior Batch. The theme of the function was "East meets west" which was depicted brilliantly with the décor of the event. Memories of Four years were showcased in videos that made the audience emotional. Short Plays like Cheetas vs Theetas made the seniors realize how badly they are go-

ing to miss life at Seecs. Titles were awarded to Seniors that depicted the time they had spent and the memories that they have made. Principal SEECs, Dr. Arshad Ali, Dean SEECs Dr. Zaidi and all the faculty of SEECs attended the event. Dr Arshad extended his best wishes to the graduating engineers and pinned high expectations on them. Faculty, staff and students everybody enjoyed the event and the amazing food. Seniors remarked it as one of the best farewells in the history of SEECs and were extremely thankful to Junior Batch for giving them another great memory to take along.



2nd Position in Poster Competition

A group of students including Kamal Mustafa, M. Akmal Rana, M. Naveed Akbar, Mustafa Anwar and Sahar Shakir of "Advanced Energy Materials and Fuel Cells Lab," CES participated in a three-day National Conference on Frontiers of Nano-Science and Nano-Technology held at PINSTECH from 3rd to 5th June 10, 2014. The event attracted a host of participants from different universities and organizations from across the

country. Esteemed guest speakers shed light on the importance of nano-technology in various fields of study, including energy materials and bio-materials. The conference also hosted a poster presentation competition in which CES-NUST students actively participated. Kamal Mustafa was declared the winner grabbing the 2nd prize in poster presentation competition for NUST. The title of the poster was Synthesis

of Cobalt doped Lithiated NiO cathode material and investigation on corrosion performance of LiAlO_2 matrices for Molten Carbonate Fuel Cells applications. Moreover, the entire group of above mentioned lab students successfully managed to have their research abstracts published in conference abstract book.



Students, faculty and staff of all the campuses of NUST are requested to send their Essays, Poems, Caricatures, Short Stories for inclusion in the forthcoming issue of the magazine

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SPORTS



Closing Ceremony of NBS Sports Gala



Sports Competitions at MCE

Tennis

Intra MCE Tennis (Doubles) Championship took place on 14th May 2014. Teams from Cadet Engineering Degrees, Officer Degrees and Faculty participated in the event. The final match was played on the 20th on May between the teams of CED 81 and MCE Faculty. The MCE Faculty team comprising Brig Syed Basim Saeed, Chief Instructor (CEMS) won the final match after a tough competition and fight put up by the energetic cadets of CED 81. Major General Anwar Ul Haq Chaudhry, Commandant MCE graced the occasion with his presence as the chief guest and distributed prizes amongst the winning and the runner-up teams.



Football

Intra MCE Football competition was scheduled from 13-19 May 2014. Final match of the championship was played on 19th May 2014 between the teams of CED 77 and OD 74. The match was won by CED 77 by One Goal. GC Hamid was declared as the best player of the tournament. The match was played on MCE ground. The chief guest of the match was Brigadier Syed Basim Saeed, Chief Instructor (CEMS).



Hockey

Intra MCE Football competition was scheduled from 20-23 May 2014. Final match of the championship was played on the 23th May 2014 between the teams of OD 80 and CED 77. The match was won by OD 80 by one goal. Captain Saad was declared as the best player of the match. The match was played on MCE ground. The chief guest of the match was Brigadier Syed Basim Saeed, Chief Instructor (CEMS).



Sports Gala ASAB, RCMS

To bridge the gap between the life inside and outside the classroom, ASAB and RCMS jointly organised a Sports Gala (28-30 April, 2014) to strengthen friendly and collaborative environment among the faculty, staff and students of both the institutions. All members in the event participated with vigour and enthusiasm despite the tough and hot weather conditions. The event as a whole comprised 17 indoor/outdoor sports activities. The first day was allocated to indoor games that included Carom, Chess, Table Tennis and Badminton. For the remaining two days, outdoor activities were

also organised that included Volleyball, Futsal, Basketball, Cricket and a 100-meter Race. Some friendly events for the faculty were also organised which included 100 meters race, tug of war and ludo.

Sports Gala was inaugurated on 28th April, 2014. Students were grouped into four houses, named Tigers, Stallions and Hawks from ASAB and Lions from RCMS. The Tigers outperformed the rest of the houses and lifted the champions trophy by scoring the highest points.

The closing ceremony was held on 12th May, 2014 in ASAB auditorium in which both Principal ASAB and Principal RCMS appreciated and encouraged the efforts of the organisers and participants of Sports Gala and proposed to continue such collaborations not only in co-curricular but also in curricular activities.



NCSC Appreciation Ceremony and Website Launch

Each year NUST Community Service Club (NCSC) commemorates its council members and their achievements in the academic year. Keeping up with its annual tradition, NCSC held its Appreciation Ceremony on May 30th, 2014. Director Administration Brig. Arif Siddiqui, Director Student Affairs Mahmud Bashir Bajwa and Principal SMME Dr. Abdul Ghafoor graced NCSC with their presence.

The event started with the newly elect-

ed President Rida Aleem addressing the council about her experience in the past academic year and bidding farewell to the outgoing council. This was followed up by presentation of souvenirs to the old office bearers for their service to the society and support to the council in all endeavors. NCSC also recognized other council members and awards like "Executive" and "Director" of the year, Team of the year, "Debutant" of the year, and many more were

given.

The ceremony ended on a high note, heralding the launch of their official website jointly by the guest of honours. The website was solely possible by the hardworking team of NCSC, headed by former Press Secretary Nida-ul-Fatima. The website, which is still being upgraded, can be visited on the following URL: www.ncsc.nust.edu.pk

Clean-up Drive at Maseeh Gill Colony

NCSC Edvolution team took yet another initiative to clean the Maseeh Gill Colony, H-9/2 where project Umeed is under way because they believe that education is not just studying, rather implementation of what one studies! On 17th April 2014, NCSC Edvolution council members along with a team of 45 passionate youngsters went for the cleaning up of the society in order to let them know the importance of cleanliness. It was not only a refreshing exercise but it played an important part in motivating the dwellers of Maseeh Gill colony as well. The drive also disseminated awareness about the importance of cleanliness. NCSC Edvolution team feels content by its performance and the enthusiasm showed by

its team members.

Meanwhile, NUST Community Service Club (NCSC) Edvolution Team conducted seven successful sessions and a creative event at Maseeh Gill colony H9/2 on 2nd, 12th, 13th, 16th, 19th, 20th and 23rd May. Edvolution has appointed some course participants and their work was splendid. The volunteers spent quality time there and taught students with great zeal and zest. The people of the area also appreciated the efforts of the volunteers and the society. Despite scorching heat of summer the volunteers, course participants and Edvolution team made these events a great success.



MCE Community Service

Talent Hunt

Where MCE excels at producing the best engineers who are professionally sound and morally well-rounded, it also pays special attention to the personality grooming of its students. MCE Talent Hunt was conducted at Iqbal Hostel as an initiative of Community Services Learning being Supervised by Maj Zeeshan Haider and hosted by NC Sajawal Bhatti. Col. Dr. Naseem Baig, Chief Instructor Civil Engineering Wing was the Chief Guest at the event. The students of MCE participated with full zeal and fervour in the event and exhibited their talents. The event gave encouragement to students to exploit their talents and develop self-confidence.



Medical First Responder Techniques

A workshop on “Medical First Responder Techniques” was conducted in “Northern University Nowshera” comprising of a lecture on numerous first aid techniques. The aim of the workshop was to make our college and university students better equipped against emergencies and untoward day to day eventualities. The workshop would enable them to generate an educated, confident and pertinent response in such situations. The students got an excellent feedback from both students and faculty of university and were requested to conduct a series of such lecture on regular basis in future.



Free Tuition Services

Capt Asfand along with his other team members initiated a Community Services Project of imparting Academic Help to students who were in need of it but could not afford to bear the tuition fee. The initiative gave the needy a feeling that they are not alone in the society.



Visit to CMH Nowshera

Every earthling is born with a beautiful sense of care. It is this sense that motivates the human beings to help each other in times of trouble and pain. Capt. Badr along with his team members paid a visit to CMH Nowshera and distributed gifts among the young children who were admitted in the CMH having being diagnosed with cancer. The children showing great courage while fighting against this disease felt great happiness on receiving this token of love.



Donation of Clothes

It is hard for poor people to afford things of daily need e.g food, shelter, clothes for themselves and their children. Hafiz Abdullah Bin Asim along with his team members took a Community Service initiative and to collect and donate some clothes to the bearers, cooks and low-income employees of MCE while taking care of their self-esteem. It helped in spreading a sense of responsibility among others and developed a harmonious environment. Realization of the fact that living for others is what makes our lives worth living. This community service brought smiles on faces of our needy brothers.



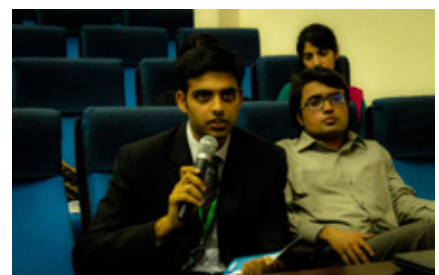
Counseling session on scholarships for higher education

NUST Community Service Club (NCSC) Experience NUST team and NUST Alumni Association (NAA) joined hands together to bring a career counseling session on scholarships for higher education on 14 April 2014 at SCEE Auditorium, NUST H-12, Islamabad.

3rd and 4th year students belonging to Electrical Engineering, Electronics Engineering, Mechatronics Engineering, Telecom Engineering, Software Engineering, Computer Sciences, Bio medical Engineering, Bio Sciences, Material

Engineering, Civil Engineering and Mechanical Engineering disciples attended this session. The session was also attended by faculty members.

Salman Mahmood (Erasmus Mundus scholarship holder), Faiza Rani (Program Officer USEFP), Ibrahim Bashir (Fulbright scholar 2014) and UsamaMazhar (GRE) were the speakers at the event. The speakers were not just representatives from various institutions availing these scholarships but some of them were also NUST Alumni.



NCSC organises Art for Charity Exhibition

NUST Community Service Club's (NCSC) Art for Charity team organized an art exhibition on Tuesday 13th May, 2014. This was the first venture by this newly established chapter which aims to serve the needy with the help of work done by its young artists. NCSC's Art for Charity team aims at generating revenue via exhibitions and Artwork sales. Generated revenue will be used to set up a small scale cottage industry for the poor/jobless. Their first goal is

to construct a free vocational training institute for widows in Taxila.

The one day exhibition was held in SADA Seminar Hall, and had art of various genres like mosaic painting, calligraphy, abstract painting, oil painting and charcoal painting on display. The event was attended by more than four hundred lovers of art and humanity who had the company of young and aspiring artists like Sameera Khalid, Wajhi-ul-Hassan Naqvi and Meesum

Abbass.

Azeem Iqbal, a renowned calligraphist and guest of honor for the event, remarked the exhibition to be a very positive initiative and expressed great interest in helping the chapter with its future ventures. Principal SMME presented a souvenir on behalf of NUST to the guest of honor, he also encouraged the efforts of the young art for charity team, and promised full support on his behalf.



NUST
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