

# CAC NEWS

CORPORATE ADVISORY COUNCIL

JUL-SEPT 2013



**1<sup>ST</sup>** PRINTED  
EDITION

# TABLE OF CONTENTS

---

PAGE	03	CAC Team
PAGE	06	News
PAGE	09	Announcements
PAGE	11	Snapshots of e-Newsletters
PAGE	17	Advisor & Director's Messages

## FROM THE EDITOR'S DESK

It is my pleasure to bring to our readers the 1st printed edition of the CAC Newsletter. The first e-Newsletter of the CAC went online in May 2012; at that time the e-Newsletter was uploaded monthly. After the first 4 issues, we decided to convert it to a quarterly e-publication. The effort to bring it out in print would not have borne fruit had we not gotten full support from the NUST Marketing & Communications Office (MCO), the NUST Publishing Office (NPO) and Press & Media Relations (P&MR).

Owing to the fact that most of our readers, particularly those outside NUST, might not have viewed the e-Newsletter issues, we have included in this edition, a snapshot of the important news items from all the past 6 issues since May 2012. Also, this publication carries an introduction of the young CAC team. Our Industry members would also get to know who in CAC to get in touch with for their particular needs.

With feedback from all our readers inside and outside NUST, we hope to improve the Newsletter with every subsequent issue. As we go along, we would like to add more sections and make it more worth your while. It would give me great confidence to receive your comments and feedback.



Sobia Bilal  
Email: coord-advisor@nust.edu.pk

# Introducing the CAC Team



## Mr. Umer Wasim

**Deputy Director**

**Sector In-Charge ICT and Automotive**

I hold a Master's degree in Engineering and Policy analysis (EPA) from the Technical University of Delft (Netherlands). I also have a Master's degree in Economics and Management of Networking Industries from the University of Paris XI (France); previously I did my Masters in Information Technology (MsIT) from NUST.

I feel that my multi-disciplinary skill set perfectly matches my job role at CAC, which involves a wide area of responsibilities, including the CAC ICT and Automotive Sector Committees, technical input in NUST's flagship program of the National Science & Technology Park (related to policy and management), and projects related to open innovation.

So far, my experience of working with the CAC is exciting due to its open culture where innovative ideas are well received, critically assessed, and supported for implementation. With such a way of life, for entrepreneurs and creative industry of Pakistan, I look forward to CAC as a platform for inventing opportunities and apparatus for their realization.

(ddcac@nust.edu.pk)



## Ms Wasifa Hussain

**Associate Project Manager**

**Sector In-Charge BFSS and Social Sector**

I hold a Masters degree in Public Administration with bi-majors in Management and Public Policy from Fatima Jinnah Women University, Rawalpindi. I have been working at the CAC for over 2 years. Dynamic leadership, healthy environment, teamwork, and continuous learning are the key words that explain my experience of working at the CAC. CAC has grown rapidly and progressively in terms of magnitude and quality of work and the skill of its team. Its relationship with the Industry is getting stronger and the list is growing. Multiple projects are now taking the form of programs. The baseline for all the CAC's sectors being the spirit of nation building, playing a role in economic and social development, makes CAC an ideal place to work. I am indeed proud to be a part of CAC and aspire to give it my best and to make the most out of this experience.

(apmcac@nust.edu.pk)





## Ms. Sobia Bilal

### **Project Coordinator/Sector In-Charge Health & Pharma, Chemical and Defence Technologies**

I am an MBA from Bahria University of Management and Computer Sciences. After 7.5 years of teaching experience, my desire to do something worthwhile for the betterment of the country brought me to the Corporate Advisory Council, NUST. Working with a team of young and enthusiastic people in close coordination with key players of the Industry to uplift the economy of Pakistan is indeed a pleasurable task that brings a sense of achievement. We may not be able to make miracles happen, but our small role in building successful Industry linkages is bringing about a gradual but definite change in the way the Industry interacts with the Academia.

(coord-advisor@nust.edu.pk)



## Ms. Sundas Imran

### **Sector In-Charge Energy and Intellectual Property Rights (IPR)**

I signed as Sector In-Charge, Energy & Intellectual Property Rights (IPR), at CAC in 2011. The sheer keenness to uplift standards of University-Industry collaborations for knowledge economy across the country was my prime intent to join the outfit. I have done my MBA in Human Resource Management (HRM) from NUST Business School (NBS).

I have a very strong association with CAC spanning over two years. This has provided me with a wealth of experience; my Sectors have peculiar challenges and also a host of opportunities, and working with the top-notch Industry experts in these two Sector Committees provides me with great learning experiences. I believe in incessant development of skill set to match the demands of progressive Sectors of CAC. My interest is to explore avenues and modes to help fabricate Industry-related and business-generated R&D projects with a clear objective to create streams of value for the partner Industries of Pakistan.

Association with the CAC involves managing successful engagement of Industry leadership with the University, and this I find to be both challenging and rewarding. Not only does this contribute towards enhancing the quality of University-Industry linkages, it also highlights the commitment of Industry leadership towards bringing about a positive and measurable impact on the economy of Pakistan.

(ra2cac@nust.edu.pk)



## Ms. Qandeel Nawaz

### **Sector In-charge Infrastructure and Engineering**

I joined the CAC in October 2011 as the Sector In-Charge for CAC Infrastructure and Engineering Sector Committees. This is my first job after completion of my Masters Degree in International Business & Marketing from NUST Business School. I am keen to work for the betterment of my Country; seeing it in the list of the top nations of the world is my dream. My raison d'être at CAC is its long-term strategic vision of nation-building.

The CAC team is young, ambitious and dynamic, and working with them gives me immense pleasure. Being involved in projects from the conceptual stage, and managing them from concept to completion has given me a sense of great achievement. I am blessed to work and spend time with such an incredible lot of people, both within the CAC and the external CAC members; in particular, interacting with the top Industry experts provides me with an implausible learning experience.

(qandeelnawaz@nust.edu.pk)







## Mr. Uzair Alvi

### **Administrative Officer/Co-sector In-charge Social Sector**

I have done my BBA from Fauji Foundation University, Rawalpindi. I have been with the CAC for the past 2 years. I am currently also pursuing a Masters degree in Project Management (MPM) from SZABIST, Islamabad.

Being a patriot, my dream is to contribute to the advancement of my beloved country and its socio-economic development by applying the knowledge I gained during the course of my academic career. NUST undoubtedly is among the best Universities of the country, and the Corporate Advisory Council is a novel concept that NUST has the honor of pioneering in Pakistan. The CAC has initiated different projects in collaboration with the Industry, and is continuously taking initiatives that contribute towards the betterment of Pakistan. I feel that being a part of the CAC has given me an opportunity to realize my personal and professional aspirations.

(uzair.alvi@nust.edu.pk)

“Coming together is a beginning.  
Keeping together is progress.  
Working together is success.”  
- Henry Ford



# Pakistan Navy Engineering College (PNEC) Participates in Formula Student Racing Competition in UK



In July 2013, Formula NUST was an inspiring initiative by the PNEC, which showcases NUST's core values of innovation and entrepreneurship and include a group of students participating in an internationally recognized competition; The Formula Student (FS) <http://www.formulastudent.com/>. It is Europe's most established educational motorsport competition, run by the Institution of Mechanical Engineers. The competition is sponsored by world renowned companies such as Shell, Mercedes, Audi, Lotus, Bentley, Jaguar, Rolls Royce, Airbus and Nissan, to name a few. This competition aims to inspire and develop enterprising and innovative young engineers. Universities from across the globe are challenged to design and build a single-seat racing car, which demonstrates their understanding and tests the performance of the vehicle.

Formula NUST Racing team of PNEC participated in "Formula student Competition" at Silverstone, UK from 3rd to 7th July, 2013. The team comprised of 25 students, including 5 female students headed by a team faculty Advisor Dr. Nadeem Ahmed. It is worth mentioning that the team represented NUST at the event and was the only team selected from Pakistan this year.

We are extremely grateful to our internal and external partners for contributing generously to support the Formula NUST Racing team:

1. Mr. Shahid Mehmood- Chairman, Interactive Group
2. Mr. Mazhar Karim- Chairman, Crescent Steel
3. Mr. Ali Ameen- Director Scotmann Pharmaceuticals
4. Mr. Asif Jaffri- CEO e-Ocean Pvt. Ltd.
5. PNEC
6. NUST



## CAC's Visit to Ministry of IT (MoIT)

On 26th July, 2013, CAC team along with teams from College of E&ME and SEECS visited the MoIT. Maj Gen Obaid Bin Zikria – Commandant College of Electrical & Mechanical Engineering (CEME), and Dr. S. M. H. Zaidi – Dean School Of Electrical Engineering & Computer Science (SEECS), brought along their teams of experts in specialized areas. Focused presentations and discussion took place on the following areas:

- » Grey Traffic Monitoring, Web Filtering and URL Blocking – by Commandant E&ME and his team
- » 4G Networks – by Dean SCEE and his team. The Minister also asked Dean SEECS to conduct an empirical research to determine the readiness of the Pakistani population with respect to 2.5G, 3G and 4G.

The Minister and her team praised the technical acumen of the young PhDs from CEME and SEECS, and decided that NUST experts would assist the MoIT in their endeavors in the different areas mentioned above. The Minister directed her team to constitute a multi-stakeholder Steering Committee, under which functional Committees will be set up to propose recommendations in different ICT areas, including Grey Traffic Monitoring, URL Blocking, Science & Technology Parks, 3G/4G Technologies, and IT and Telecom Policies.



## NSTP Program Update

In February 2013, the NSTP Core Team from Advisor's Office NUST conducted a Pre-feasibility study for the NSTP Program, which was approved by the NUST Board of Governors (BoG). The BoG directed NUST to prepare a world-class Feasibility Report for the Program. At present, NUST is in the process of selecting a world class consistency firm to prepare a comprehensive Feasibility Report for the Program.



# First External Social Sector Committee Meeting: (July 2013)

The CAC Social Sector is a unique Sector as it serves and cross-cuts all the other CAC Sectors. The past 1 year was an important period for the CAC Social Sector Committee (SSC), since a great deal of careful thinking and effort went into developing the mission, objectives and strategy for this Sector. The relevant members of the CAC, NUST Co-Chair CAC SSC Mr. Irfan Ahmed Akhtar (CFO NUST), and Industry Co-Chair CAC SSC Dr. Ijaz Shafi Gilani (CEO Gallup Pakistan), and Principals and members from relevant NUST Schools have had extensive brainstorming sessions to develop a viable strategy to take this Sector forward.

With a mandate to leverage the Science & Technology base of NUST to serve, engage and develop communities, the CAC SSC is now moving to the next level, where Flagship Areas have been formed (Education/Training, Health, Environment and ICT). Short-term, medium-term and long-term projects are being planned within each Flagship Area. Relevant and notable Industry members are now also on board, representing prestigious organizations in the private sector as well as the development sector. From NUST, Principals and other academicians from some of the Schools are also part of the SSC.

The CAC SSC had its first External Session on 30th July 2013. The purpose of having this session was to apprise all members, internal and external, of the progress made so far; to give a snapshot of the Community/Social development programs that are being planned, and to get feedback and input from our members, particularly the external members, in the following areas:

- » How to further refine the strategy.
- » Flagship Areas.
- » Critique of individual projects and suggestions on how to improve them in terms of scope and deliverables.
- » Support for planning and execution of projects.
- » Technical support for projects; this will come in particular from the private sector companies.
- » Reaching out to communities & local stakeholders, and working with the communities. This support would mainly come from NGOs and development

organizations.

- » Funding for projects – private sector, funding agencies, etc.

Following is the list of NUST and Industry members who attended this session;

## Internal:

- » Mr. Irfan Akhtar – CFO NUST and NUST Co-Chair CAC SSC
- » Dr. Abdul Ghafoor – Principal, School for Mechanical and Manufacturing Engineering (SMME)
- » Dr. S.M. Jamil – Acting Principal, NUST School of Civil and Environmental Engineering (SCEE)
- » Dr. Irtiza Ali Shah – Associate Professor, Manufacturing Engg. SMME and In-charge of the NUST Community Service Club (NCSC)
- » Engr. Naveed-ul-Hassan, Deputy Director, NUST Design and Manufacturing resource Centre (DMRC)
- » Dr. Zahir-ud-Din, HOD Environmental Sciences, Institute of Environmental Science & Engineering (IESE), NUST
- » Dr. Salma Siddiqui – HOD Behavioral Sciences, NUST
- » Ms. RabiaShoaib - Director CAC
- » Mr. UmerWasim- Deputy Director CAC and Sector In-Charge CAC ICT Sector Committee
- » Ms. Wasifa Hussain – Sector In charge Social Sector Committee & BFSS/APM CAC
- » Ms. Qandeel Nawaz – Sector In Charge Engineering and Infrastructure Sector Committee
- » Mr. Faisal Bashir Awan – Industry Liaison Officer (ILO), SCEE, NUST

## External:

- » Dr. Ijaz Shafi Gilani – CEO Gallup Pakistan and Industry Co-Chair CAC SSC
- » Ms. Anita R. Florijn – Project Director Family Educational Services Foundation (FESF)
- » Mr. Qazi Isa – CEO Pakistan Poverty Alleviation Fund (PPAF)





- » Mr. Saad Amanullah Khan – CEO Gillette Paksitan
- » Mr. Fayyaz Baqir – Director, Akhter Hameed Khan Resource Center
- » Mr. Sajid Qaisrani – Executive Director, Sungi Development Foundation

Following projects were presented in the meeting:

- » Skill development of unemployed / underprivileged youth at Design & Manufacturing Resource Center (DMRC) – this project has been completed in July 2013.
- » Mobile Lab Project; In which a van loaded with laboratory equipment for Science practical will go to the matriculation/FSC students studying in Government schools where such sophisticated equipment may not be available.
- » Environmental Assessment Training Program for I-9 and I-10 Industries in Islamabad; the objective of this

project is to help industrial management in identifying aspects and impacts of environmental industrial operations and to provide cost effective solution to eliminate / reduce the environmental impact of industrial operations.

- » Improving environmental awareness through Community Workshops in Leh Catchment; The objective of this project is to help communities in Leh catchments to identify environmental impacts of their daily activities on Leh water quality, and to propose cost-effective simple techniques to reduce these impacts.

The significant next steps are one-on-one sessions with the relevant stakeholders to discuss and determine the areas of collaboration, explore the funding opportunities in order to take projects into execution.

## ANNOUNCEMENTS

### Addition of Mr. Zubair Ahmed Malik to the CAC Board of Advisors (August 2013)



We are pleased to welcome the President of The Federation of Pakistan Chambers of Commerce and Industry (FPCCI), Mr. Zubair Ahmed Malik, on the CAC Board of Advisors (BoA). The newly established BoA at CAC brings together the Council Co-Chairs, the Industry and NUST Co-Chairs of all 11 CAC Sector Committees, senior Industry specialists and notable senior Government

functionaries. The BoA mainly combines cross-sector expertise of our members and NUST Schools and provides strategic input to the Sector Committees in particular and the CAC in general.

Mr. Zubair Ahmed Malik joined the BoA in August 2013. He holds a degree in Aeronautical Engineering from the Britain's

Air University, U.K. Before joining the FPCCI he has held various key posts; he served as the Chief Coordinator for Economic Freedom Network Pakistan from October 2004 to February 2013. He also served as the member of Managing Committee for SAARC Chamber of Commerce & Industry. He was the Vice President of FPCCI from 2006 to 2008. He also served as the President Islamabad Chamber of Commerce & Industry (ICCI) from October 2004 to September 2005.

FPCCI as Pakistan's apex trade organization has committed its positive role in strengthening and advancing the bilateral trade relations between Pakistan and regional economies. FPCCI represents the country's Trade, Industry & Services, and regularly organizes seminars, workshops, conferences and special lectures on current trade and economic issues to keep the private sector well-informed of global changes and requirements. Presently FPCCI has a membership of 153 Trade Bodies enfolding 52 Chambers, (including 8 Women's Chambers) along with 100 Associations of Trade, Industry & Service sand 1 Chamber of Small Traders from all over the Country.



## Addition of Mr. Ali Mehmud to CAC Energy Sector Committee (June 2013)



It is our pleasure to introduce as the External Member of CAC Energy Sector Committee, Mr. Ali Mehmud, Chief Executive Officer (CEO) Unified Sunergy Systems Pvt. Ltd. Mr. Ali Mehmud holds a Master of Science degree in Electrical Engineering from State University of New York, Stony Brook, NY. He has over 18 years of technical operational,

sales and financial knowledge in several Information and Communications Technology (ICT) and Technology Infrastructural development areas. He has been a Senior IEEE (USA) member and a recipient of NASA's special achievement award. He has worked for over 12 years at Nokia in several key leadership positions in US (Dallas, San Diego), Brazil, Canada, Mexico and Pakistan. The last position held at Nokia was of Country head - Nokia Pakistan & Afghanistan. As Technology Sector Specialist - Pakistan, for United States Trade and Development Agency (USTDA) he has designed and developed technology (ICT) based projects (projected cost of over \$445 million USD) for possible USTDA support for feasibility studies after comprehensive review of technical, organizational and operational mandate of several public

and private sector organizations. Development or enhancement projects were based on their operational requirements, existing systems and migration strategy.

As Director Telecom in Ministry of Information Technology & Telecom, Government of Pakistan, he managed all ICT related Public Sector Development Program Projects (PSDP) worth over USD 250 Million. He served as a technical expert for the Ministry to review and recommend changes/modifications to all the proposed future technology projects for the country. He has also developed the first advanced fiber-optic based sensor system to measure the blade tip deflections in the jet turbine engines for the National Aeronautics and Space Administration (NASA), John H. Glenn Research Centre, Cleveland, OHIO, USA.

Mr. Ali Mehmud founded his own entrepreneurial venture registered as Unified Sunergy Systems Pvt. Ltd. in 2011. Unified Sunergy Systems Pvt. Ltd. offers a unique range of energy saving products & solutions, works on energy management, and is engaged in deploying energy efficient devices in large scale organizations and factories to cut their energy load and operating cost. Currently they are aggressively pushing and deploying energy efficient nano-tube lights and helping large organizations cut their energy usage by over 50%.

We are indeed very happy to have Mr. Ali Mehmud on board and hope to gain from his expertise and experience.

### Obituary: Capt. Dr. Nadeem Ahmed (PNEC)



We at CAC, GTTN and the Advisors Office at NUST offer our condolences on the passing away of Captain Dr. Nadeem Ahmed, Director Research and Development, Pakistan Navy Engineering College (PNEC), Karachi. He passed away in a target killing accident in Karachi on 04th September 2013. In addition to his appointment as Director R&D, he was also the Faculty Advisor for Formula NUST Racing Team, which is the only Formula Student Team from Pakistan with two years of experience in Formula Student, UK.

The CAC worked closely with Dr. Nadeem during preparations for participation of the Formula NUST Racing Team in Formula Student that takes place every year in Silverstone, UK. He had also recently joined the CAC Automotive Sector Committee.

Not only was Dr. Nadeem a thorough gentleman, he was also a solid professional, a dedicated officer of Pakistan Navy and a pleasure to work with. He will be fondly remembered by all of us at the Advisor's Office.

We extend our heartfelt condolences to Dr. Nadeem's family members; We pray that Allah (SWT) blesses his soul and gives his family and friends the strength to bear this tremendous loss.

## Snapshots from CAC e-Newsletters (May 2012-Jun 2013)

# Technical Training for Underprivileged, Unemployed Youth (April-June 2013)

Having a discernable social impact is one of NUST's strategic objectives; in line with this objective, the CAC SSC aims to utilize NUST's strong Engineering and S&T base to add value to the lives of communities around it. NUST Schools, Colleges and Institutes are already working on a number of projects that have or can have a visible social impact; at the same time, the CAC SSC and the Institutes, with input and support from our CAC Industry members, conceptualize similar technical projects with a community development/community engagement aims. With more than 150 members on board, CAC is privileged to have the Industry's input and support for SSC projects, and is well-equipped to make a positive difference in the lives of communities.

In line with the above-mentioned philosophy and mandate, NUST School of Mechanical and Manufacturing Engineering (SMME) has collaborated with the CAC SSC to conduct a free-of-charge technical training course for underprivileged and unskilled/unemployed from 10th June to 10th July 2013 at NUST's Design and Manufacturing Resource Center (DMRC). This is purely a community development project and the initiative has been taken by SMME with the purpose of equipping the unskilled/unemployed youth with technical skills in welding, machining and electricianing. The broader objective is to enable them to earn a respectable living and support their families.

The training program being conducted at DMRC. Includes three courses (for 20-25 participants per course):

- 4-week Electrician Course
- 4-week Welder Course
- 4-week Machinist (lathe and milling) course

The CAC SSC plans to make this training an annual event. Also, since the objective is to help the underprivileged youth make a living for themselves and their families, CAC SSC will also strive to develop a mechanism whereby micro-financing and/or employment opportunities are available for the trainees. In this regard, CAC is in touch with its Industry members and other relevant organizations.

Funding for the project has come from NUST and a distinguished Industry member from the CAC Automotive Sector Committee, Mr. Mehdi Ali Rizvi. We are very grateful to Mr. Mehdi for supporting this initiative.





## CAC, NCSC and FESF Join Hands to hold Seminar on Challenges faced in Special Education (April-June 2013)



CAC-NUST, in collaboration with the NUST Community Services Club (NCSC) invited Ms. Anita Florijn, Director Family Education Services Foundation (FESF), to NUST in April 2013.

Family Educational Services Foundation (FESF) is a non-profit educational organization working in Pakistan since 1984 and registered with the Securities & Exchange Commission of Pakistan.

Its mission is to enhance the quality of life for all members of the community, especially those who are disadvantaged. It invests in educational development and provides innovative training programs and services empowering the recipients to gain both competency and self-sufficiency, thus realizing their full potential.

Ms. Florijn was requested to address NUST students, and share her experiences as a social worker, and the challenges faced in providing special education to children and their families. Moreover, CAC aimed to explore avenues of collaboration with FESF from the platform of the CAC Social Sector Committee (SSC).

Ms. Florijn addressed NUST students at SECS on 23rd April 2013. Her talk was stimulating and inspiring; it was an interactive session covering the social barriers that the challenged individuals face in their daily lives, and what responsibilities society has towards them.

Ms. Florijn improved the audience's understanding on the different physical, mental and emotional challenges faced by special individuals, and how society should help them become useful citizens.

Ms. Florijn also elaborated on the projects conducted by FESF specifically in special education. With reference to NUST, a discussion took place on how to make the campus friendlier for special individuals in terms of access, e.g. making it possible for wheelchairs to access buildings, etc.

The NUST Co-Chair CAC SSC Mr. Irfan Akhtar (CFO NUST), Principals SECS Dr. Arshad Ali, NCSC office bearers and CAC team members were present at the event. At the end of the session, it was decided that this Seminar will be held every year; it was also decided that Ms. Florijn will be made a member of the CAC SSC, and that collaborative projects between FESF and SECS will be started, taking forward the many community service initiatives that SECS has already taken.

Earlier, Mrs. Florijn met with CAC SSC NUST Co-Chair Mr. Irfan Ahmad, operational head of NCSC Dr. Irtiza Ali Shah, and CAC team members on 19th April 2013. Presentations were given by Ms. Florijn and by Dr. Irtiza. An initial discussion on possible collaboration between CAC, NCSC and FESF took place.





## CAC Energy Sector Committee - Visit to University of Agriculture Faisalabad (UAF) (April-June 2013)

A team from CAC and Center for Energy Systems (CES), NUST visited University of Agriculture Faisalabad (UAF) on 13th June 2013. The purpose was to visit the Biogas plant that UAF has designed and installed and to gain from UAF's experience in this project, which would help NUST in its own Biogas project, which the CES has been working on. The broader objective was also to promote exchange of knowledge in relevant sub-disciplines of Energy. The visit was an enriching experience which allowed interaction and mutual

learning & Technology, UAF, was the focal person from the University. Dr. Iqbal gave a detailed presentation on the B.Sc. Energy Systems Engineering which has been started by UAF. This was followed by presentations by other Faculty Members on Solar, Biomass, Gasifier Running on Biomass & Biogas Technology.

The UAF team introduced the NUST team to various activities and programs they are conducting for capacity-building in the Agriculture Sector of Pakistan. UAF showed keen interest in creating synergies between UAF and NUST for research and development.

Dr. Anjum Munir, Assistant Professor Department of Farm Machinery & Power at UAF, has done his PhD in Solar Energy from Germany; he took the NUST team on a visit of the Biogas Plant, and gave a detailed briefing on the plant's operations. This was followed by a visit to UAF's Solar Distillation System, Solar Roaster and Solar Dryer.

In the end the team had a brief session with Prof. Dr. Iqbal Ahmad Khan, Vice Chancellor UAF. The closing session with the UAF team included discussion on key areas of collaboration, including mutual Internship program, research collaborations, teachers exchange for Degree Programs, and use of laboratory facilities for students of NUST & UAF.



Biogas plant that UAF has designed and installed



learning; both teams exchanged information about their basic and applied research areas and research projects. Prof. Dr. Muhammad Iqbal, Dean, Faculty of Agriculture Engineer-



## Visit of His Excellency Ambassador of Italy, President Italian Development Committee (March 2013)

His Excellency Adriano Chiodi Cianfarani, the Ambassador of Italy, visited NUST on 19th March 2013. H.E is also the patron-in-chief of the Italian Development Committee (IDC). The IDC (Karachi) is a trade development association of professionals from different industries, committed to the expansion of trade, commerce, industries, ventures and investments between Italy and Pakistan. It was formed on 30th September 2009 by the Ambassador of Italy and works under the patronage of the Ambassador. The IDC enjoys full support from the Embassy of Italy in Islamabad.

President IDC Mr. Irfan H.A. Vazeer and Secretary General IDC Mr. Zuhair Vazir also accompanied the Ambassador of Italy. Mr. Irfan Vazeer is also the CEO of James Finlay Ltd Pakistan, and has recently joined the CAC on its Infrastructure Sector Committee. James Finlay Limited in Pakistan came into existence in 1890 and has been trading in the sub-continent for over a century. Finlays became a wholly owned subsidiary of Swire Group. Swire Group Comprises of companies dealing in Aviation, Marine Services, Beverages, Trading and Properties which include Cathay Pacific Airways, Swire Shipping, ICI Swire Paints and Swire Coco Cola Hong Kong Ltd. James Finlay Limited business in Pakistan comprises of Shipping, Protection & Indemnity Survey & Tally, Consultancy, Property and Tea Trading. James Finlay will work closely with CAC's Infrastructure Sector Committee in various overlapping areas which will be confirmed later on. The delegation was hosted by Rector NUST Engr. M. Asghar. Other participants from NUST included

Engr. M. Shahid Pro Rector Planning and Resource (P&R), Dr. Asif Raza Pro Rector Academics, Dr. Abdul Ghafoor Principal School of Mechanical And Manufacturing Engineering (SMME), Engr. Salman Absar Director Innovation and Commercialization (I&C), Mr. Amer Hashmi Advisor NUST, Dr. Azad Akhter Siddiqui, Principal Center for Advanced Mathematics and Physics (CAMP), Ms. Rabia Shoaib Ahmad, Director Corporate Advisory Council, Mr. Ali Shah Senior Policy Analyst Global Think Tank Network (GTTN), Ms. Faiza Malik, Project Manager Advisor Office, Ms. Qandeel Nawaz, Sector In charge Infrastructure and Engineering, CAC. The purpose of the session held with the Italian Ambassador was to tap into probable areas for collaboration between Italy and Pakistan. The session started with the comprehensive presentation of the NUST, and the Corporate Advisory Council (CAC) by Ms. Rabia Shoaib Ahmad, Director CAC. She explained how the CAC, GTTN and NSTP form part of the Knowledge Ecosystem, and how NUST is moving towards the development of the Ecosystem with the overall strategic objective of nation-building. She elaborated on the building blocks of the Eco system that are already in place at NUST, including RIC and its constituents, and the add-ons that are needed in order to take the initiative to the next level. This was followed by the presentation by Mr. Ali Shah, Senior Policy Analyst Global Think Tank Network (GTTN), on how they are developing linkages with other Think Tanks and Universities around the world for international policy research and analysis.



## MoU signing ceremony between LMKT & IGIS and between AiD (Pvt.) Ltd & NUST (August 2012)

CAC encompasses eleven sectors of the economy including Engineering, Infrastructure, Intellectual Property Rights (IPR), Automotive, ICT, Banking and Financial Services, Defence Technologies, Energy, Health and Pharmaceuticals, Chemical, and Social Sector. Keeping in view the mandate of the CAC, i.e., bringing the Industry and academia on a single platform, the CAC Infrastructure Sector Committee took the initiative to invite two companies, namely Landmark Technologies (LMKT), a subsidiary of Landmark Resources (LMKR) Pakistan, and Associates in Development (AiD) (Pvt.) Ltd, to work with the relevant NUST schools in developing and executing projects that would add value to them as well as to our students. The Infrastructure Sector Committee is supported by the School of Civil and Environmental Engineering (SCEE), NUST, which is sub-divided into four institutes namely (a) Institute of Geographical Information Systems (IGIS), (b) NUST Institute of Transportation (NIT), (c) NUST Institute of Civil Engineering (NICE) and (d) Institute of Environmental Sciences and Engineering (IESE).

AiD Pvt. Ltd is an international consulting organization. It provides development and management consulting services in the Infrastructure, Engineering and Social Sectors. It is registered with large international donor organizations like the USAID, UNICEF and others.

LMKT is an independent IT solutions company formed in 2010. LMKT offers its growing solutions portfolio to customers worldwide by leveraging an extensive network of LMKR's regional offices, its human capital and strategic partnerships. NUST IGIS specializes in mapping, visualizing, analyzing and planning of combined databases with spatial information and outputs in the form of maps. This helps in scientific investigations, resource management, and development planning.

Preliminary discussions with LMKT and AiD (Pvt.) Ltd., about the nature of projects to be pursued keeping in view the expertise of the concerned schools led to a decision of signing Memoranda of Understanding (MoU) to mark the beginning of the collaboration. It was decided that LMKT will sign an MoU with SCEE, NUST, where as AiD (Pvt.) Ltd wanted to sign an MoU with NUST overall instead of with a particular school, owing to the variety of areas it works in. The joint

MoU Signing Ceremony took place at NUST on 7th August, 2012.

From LMKT, their President Mr. Osman Jilani, GM Technology Consulting Mr. Haroon Sharif, and Manager Marketing Mr. Saad Raza Khan attended the event.

From AiD (Pvt.) Ltd, Director Operations and Business Development Mr. Ijaz Hussain, Director Engineering Mr. Naveed Iqbal, and Manager Social Sector Ms. Sana Khalid were present.

From NUST, the occasion was graced by the presence of senior management, including Pro-Rector Academics Dr. Asif Raza, Principal NUST School of Civil and Environmental Engineering (SCEE) Dr. Nasrullah Khan, Dean SCEE Dr. M. Jamil, Associate Dean NICE Dr. Liaqat Ali, and Associate Dean IGIS Engr. Sarwar Jamal. Senior faculty from IGIS, and CAC and NUST Global Think Tank (GTTN) team members were also present.

An overview of the CAC and its achievements was given by Senior Program Manager CAC Ms. Rabia Shoaib. A summary of the projects that SCEE is conducting with LMKT and AiD (Pvt.) Ltd. was also given by Associate Dean IGIS Engr. Sarwar Jamal.

President LMKT addressed the audience and shared his views about the usefulness of Industry-Academia linkages, and the avenues this MoU will open for NUST-LMKT joint projects. He also shared his desire of their parent organization, LMKR, working with NUST on various projects. Director Operations and Business Development, AiD (Pvt.) Ltd. also shared his thoughts with the audience; he mentioned that this MoU will help in strengthening the linkage between NUST and AiD, and help in providing students opportunities for Industry exposure.

The MoU between LMKT and SCEE was signed by President LMKT Mr. Osman Jilani and Principal SCEE Dr. Nasrullah Khan. The MoU between AiD (Pvt.) Ltd. and NUST was signed by Director Operations & Business Development AiD (Pvt.) Ltd. and Senior Program Manager CAC, NUST.

In the end Dr. Asif Raza, Pro-Rector Academics NUST, addressed the audience and reiterated that this collaboration will enhance trust between NUST and the Industry. He also expressed the hope that similar Industry collaborations will be developed with other NUST schools and institutes.

The ceremony ended with a group photograph.

We welcome LMKT and AiD (Pvt.) Ltd on board the CAC, and hope that the collaboration marked by the signing of these MoUs will grow into solid partnerships that will benefit both NUST and the Industry, thereby having a direct impact on Pakistan's economy.





# The National Science and Technology Park (NSTP)

## (July 2012)



One of Pakistan's greatest natural resources is its intellectual capital (with a pool of scientists and doctors ranking #7 and engineers ranking #9 globally). As the world moves towards a knowledge based economy, new ways have to be conceived to seed, mature and cultivate Pakistan's natural resources to sustain long-term growth. While it is understood that technology can lead to faster business growth, higher wages and a larger multiplier effect for the economy, one thing is left unclear; how can it be ensured that intellectual capital is positioned to lead the technology based revolution? For that purpose, Pakistan must develop, retain and expand the country's workforce to ensure a sufficient intellectual entrepreneurial and technological talent base. To address this challenge and sustain the spirit of creativity and entrepreneurship, NUST aims to establish a National Science and Technology Park (NSTP). It will be an alliance between the University, the Government, business enterprises and R&D institutes. The objective would be to create a dynamic new Knowledge Ecosystem drawing together the best intellectual minds, their innovative research and the latest technologies in a wide number of areas.

The NSTP aims to encourage the freedom of enterprise and innovation in Pakistan by providing entrepreneurs a platform for technology incubation, business development and commercialization. The NSTP will build networks stretching far beyond the major institutions today to include a comprehen-

sive Knowledge Ecosystem of entrepreneurs, venture capitalists, professors, students, professionals (from various Sectors) and under privileged communities for mentoring and learning. The NSTP will promote interaction between institutional elements i.e universities, research parks, large companies, venture funds etc and non-institutional elements i.e talent bodies of knowledge and virtual communities, to create job opportunities for the youth and link local assets to global and domestic markets generating value. It envisions stimulation of economic activity in the country by developing a unique knowledge based multi-Industry cluster around the capital city, including segments of ICT, Engineering, Biotech/Biopharma, Banking and Financial Services, Defence Technologies, Energy and Automotive Industries-all key CAC Sectors.

Based on the conviction that new research clusters in developing countries will capture an increasing share of global R&D investment and will enhance technology innovation, the NSTP will encompass an Entrepreneurship & Innovation Centre, R&D Centre, Science Centre, Technology Incubation Centre, Manufacturing Resource Centre, IT & Telecom data Centre and Learning Academy that will provide technical and vocational expertise as well as entrepreneurship and leadership training. The NSTP will also host a Research Commercialization Centre, University-Industry Liaison Nucleus, event management and recreational facilities. Moreover, the park will have a distinctive Knowledge Brokerage facility by means of which it will act as an information intermediary to provide advice on selection of goods and services, business intelligence or research data to interested parties.

The CAC, with partners in 11 Sectors, is ideally positioned to not only eventually merge into the NSTP, but also help strengthen the Ecosystem through the collaboration and trust it has built with its industrial partners.

NUST has the prerequisites for the NSTP in place, including the CAC linkages, the NUST schools and the Centre for Innovation & Entrepreneurship (CIE) having in its fold the function of Research, Innovation and Commercialization, Technology Incubation and Professional Development.





## Message from Director CAC

CAC has been publishing the e-Newsletter since May 2012, but this is the first time that it has been printed. Hence I feel honored to present to our partners from the Industry and the Government, the 1st printed edition of the CAC Newsletter. I would like to thank the Editor of the Newsletter and the entire CAC team for their combined efforts to put together the Newsletter. A special thanks to the NUST Marketing and Communications Office for their brilliant creativity and their support in putting together this edition. I hope all our readers enjoy this quarterly publication which gives an insight into our efforts and contributions to strengthening Industry-Academia collaboration.

Rabia Shoaib Ahmad  
Director CAC  
(rabia.s@nust.edu.pk)

---


## Message from Secretary General CAC

It is a pleasure to see the first printed edition of the CAC Newsletter. This is an important milestone in the life of the still nascent Corporate Advisory Council, and marks the beginning of many more feats to come.

I would like to thank all the Industry Co-Chairs and members of CAC Committees for supporting this national initiative, and actively participating in it. I am also grateful to the NUST Co-Chairs of the CAC Committees for their untiring efforts to make this novel concept a success.

I am proud of the CAC, Marketing & Communications Office (MCO) teams and Printing & Media Relations (P&MR) for their combined efforts in putting together the CAC Newsletter.

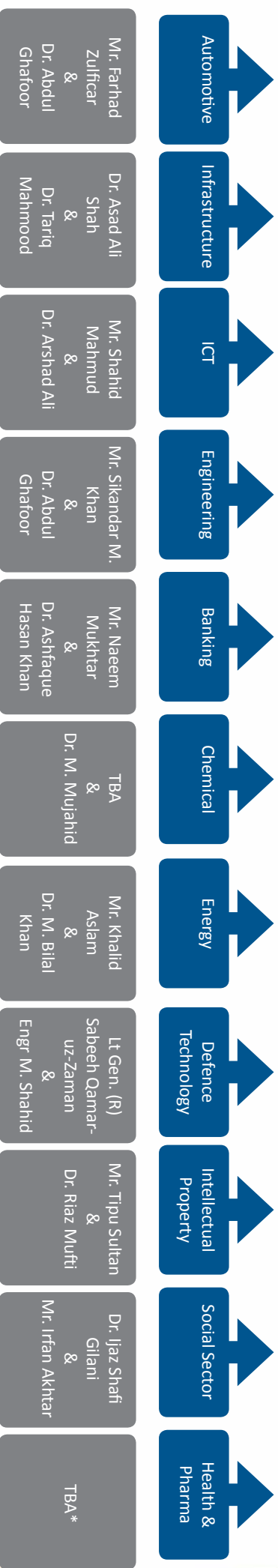
Amer Hashmi  
Advisor NUST  
Secretary General CAC  
(advisor@nust.edu.pk)



## CAC Sectors and Co-Chairs

**Rector NUST – Engr. Muhammad Asghar**  
**Prof. Emeritus - Dr. Akram Sheikh**  
**Co-Chairs CAC**

CAC SECRETARIAT



### Industry Co-Chairs CAC

1. Mr. Farhad Zuificar - Vice Chairman, House of Habib, Director & Member Board, Indus Motor Company Limited
2. Dr. Asad Ali Shah - Former Director General, Asian Development Bank (ADB), Former Member Infrastructure, Planning Commission of Pakistan; Convener, Research Area 3, China-Pakistan Joint Think Tank
3. Mr. Shahid Mehmud - CEO, Interactive Group
4. Mr. Sikandar Mustafa Khan - Chairman, Millat Group of Companies
5. Mr. Naeem Mukhtar - Chairman, Allied Bank Limited
6. Mr. Khalid Aslam - Director, Sapphire Textile Mills
7. Lt. Gen. (Retd.) Sabeeh Qamar uz Zaman - Chairman, Quality Schools Foundation
8. Mr. Tipu Sultan - Group General Manager, Scottmann Pharmaceuticals
9. Dr. Ijaz Shafi Gilani - CEO, Gallup Pakistan

### NUST Co-Chairs

1. Dr. Abdul Ghafoor - Principal, School of Mechanical & Manufacturing Engineering (SMME)
2. Dr. Tariq Mahmood - Principal, School of Civil & Environmental Engineering (SCEE)
3. Dr. Arshad Ali - Principal, School of Electrical Engineering & Computer Science (SEECs)
4. Dr. Asfaqe Hasan Khan - Principal, NUST Business School (NBS)
5. Dr. Muhammad Mujahid - Principal/ Dean, School of Chemical & Materials Engineering (SCME)
6. Dr. M Bilal Khan - Principal/Dean, Centre for Energy Systems (CES)
7. Engr. Muhammad Shahid - Pro-Rector, Planning and Resource
8. Dr. Riaz Mufti - Professor Automotive Engineering, School of Mechanical & Manufacturing Engineering (SMME)
9. Mr. Irfan Akhtar - Chief Financial Officer NUST

\*TBA- To Be Appointed



## Editorial Team

Editor : Ms Sobia Bilal

Co-Editor : Mr Uzair Alvi

Writers : CAC Team

Graphics & Layout:

Mahtab & Kareem

Manager Art & Design (MCO)

Printing :

Printing & Media Relations (P&MR)

**Corporate Advisory Council**

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

**Tel:** +92-51-9085 1453

**Email:** [coord-advisor@nust.edu.pk](mailto:coord-advisor@nust.edu.pk)

**Fax:** +92-51-9085 1012

**Website:** [cac.nust.edu.pk](http://cac.nust.edu.pk)

