



# S&T Biz

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## Inauguration of Belarusian-Pakistani Center of Science & Technology at PCSIR, Islamabad

Federal Minister for Science & Technology, Pakistan Rana Tanveer Hussain met Belarusian Deputy Prime Minister H.E. Mr. Vladimir Semashko and Chairman State Committee on Science & Technology (SCST) H.E. Mr. Alexander Shumilin on October 03, 2016 for signing the Statutes and Inauguration of Belarusian-Pakistani Center of Science & Technology Cooperation.

Under the Belarusian-Pakistani Center of Science and Technology Cooperation the Pakistani Branch of the Center at PCSIR Head Office Islamabad was inaugurated on October 03, 2016. The Centre will assist the educational institutions, research organizations and innovative industrial enterprises in expanding the business and academic relations and contracts in the field of the scientific & technological research of the Republic of Belarus with similar institutions and enterprises of Pakistan and develop efficient mechanism of interaction between the Belarusian and the Pakistani S&T organizations in the implementation of the joint projects and promotion of advanced technologies & products to markets. The delegates emphasized to allocate adequate resources for R&D and to adopt long & short term policies in various sectors of economy to improve performance through regulatory measures as well as incentive mechanisms.



The Federal Minister for S&T during the meeting with the Deputy Prime Minister indicated that Pakistan supports scientific exchanges which contribute positively to coalition-building among nations for peace and sustainable development.

## PSQCA Organizes Seminar on "Standards Build Trust" in Collaboration with LCCI

The Pakistan Standards and Quality Control Authority (PSQCA) in collaboration with Lahore Chamber of Commerce & Industry (LCCI) organized a seminar titled "Standards Build Trust" at LCCI on October 31, 2016. The main objective of the seminar was to promote quality standards culture in the country.



The Federal Minister for Science & Technology Rana Tanveer Hussain was the chief guest on the occasion. In his address he acknowledged the fact that industrialization, standardization and economic growth grow together as without standardization, optimum growth cannot be achieved. Conformity assessment provides assurance to consumers by increasing consumer confidence when personnel, products, systems or services are evaluated against specific standards. The Minister assured that the federal government is committed to provide all the

necessary resources to PSQCA for effective enforcement of its activities. Director General PSQCA, Muhammad Khalid Siddiq in his welcome address thanked the participants and said that the changing face of international trade has led to single, globally acceptable technical standards for globally marketable products. At the international level, standards are becoming a pillar of the new global trade system. In today's increasingly globalized trading environment, international standards are powerful tools to lead positive change for spurring economic growth, adapt to climate change and open up global markets.

## PCSIR Organizes a One Day Seminar on “Role of PCSIR for Industrial Development & Its Impact on National Economy” at Swat

The Pakistan Council of Scientific & Industrial Research (PCSIR) organized a one day seminar on “Role of PCSIR for Industrial Development & its Impact on National Economy” at Swat Serena Hotel on October 28, 2016. Federal Minister for Science & Technology Rana Tanveer Hussain, was Chief Guest of the Seminar, whereas, Additional Secretary MoST Muhammad Ashraf, Chairman PCSIR Dr. Shahzad Alam, alongwith his senior management and Brigade Commander Swat Brigadier Zafar Iqbal was also present at the occasion.

The basic theme of the seminar was to enhance awareness among the community of Swat region regarding importance of knowledge based technology development, inventions and innovations achieved by utilizing indigenous resources for economic growth of the country. In the seminar, the potential of Swat region regarding production of world class fruits, invaluable medicinal herbs, gem stone and marble were focused.

The Federal Minister for Science & Technology emphasized that by providing employment to skilled youth, we can keep them from becoming a tool in the hands of terrorists. Chairman, PCSIR in his keynote address announced the free training opportunities for the local industrialists in the fields of polishing and cutting

of marble, granite, precious stone, processed food, medicinal herbs products etc. President Swat Hotel Association, Haji Zahid appealed for restoration of tourism by repairing the roads of the area. He also announced to give land to PCSIR for building a facilitation centre in Swat.



## International Standards guarantee the Health and Safety of the Consumer

The Pakistan Standards & Quality Control Authority (PSQCA) organized a National Seminar titled “Standards Build Trust” in collaboration with Federation of Pakistan Chambers of Commerce & Industry (FPCCI) at the occasion of World Standards Day 2016 at FPCCI-Karachi on October 17, 2016.

The Federal Secretary, Ministry of Science & Technology, Mr. Fazal Abbas Maken was the Chief Guest in the Seminar. In his address he appreciated the efforts of PSQCA. He said that Standards and Conformity assessment activities benefit public health, safety and environment. The consumer gets benefit from the development and design of new and improved requirements for the safety and quality of the products. He added that we are an energy starved country therefore deployment of efficient energy solution cannot be over emphasized and I am pleased to learn that PSQCA is already addressing this issue and have developed internationally harmonized Pakistan Standards on Energy efficient products.



The Vice President, FPCCI Mr. Mohammad Hanif Gohar welcomed all the guests for their presence and active participation to make the seminar a successful event. He said that I urge Pakistani companies to remain vigilant about the latest development of international standards and get involved in the international standards committees of ISO and IEC. The trade community and industry must participate through Pakistan Standards and Quality Control Authority.

The Director General, PSQCA, Mr. Muhammad Khalid Siddiq presented the keynote address on the occasion. The Seminar was attended by a large number of government officials, representatives of NGOs, corporate sector representatives, print & electronic media personals, social workers and students.

## NUST Conducts Training on Business Model Canvas

Technology Incubation Center NUST conducted day long training for incubatees on developing business model canvas on November 21, 2016. Mr. Saad Hamid, technology entrepreneur and digital ecosystem builder, country lead at Innovation and School of Skills delivered an interactive session to 16 startups who participated in the training.

## Issue of Sea Water Intrusion along the Coastal areas of Sindh and Balochistan

Prof. Ahsan Iqbal, Federal Minister for Planning, Development and Reforms had required National Institute of Oceanography (NIO), MoST to brief regarding the implementation status of the Recommendations of the Senate's Standing Committee on Planning, Development & Reforms.

After the briefing, the Minister established a Steering Committee under the Chairmanship of Secretary, Ministry of Science & Technology.

The Steering committee held two meetings and after detailed deliberations approved the PC-1 prepared by the Seawater Intrusion Cell for submission.



## PSQCA Signs MoU with NED University of Engineering & Technology

A Memorandum of Understanding (MoU) has been signed between Pakistan Standards and Quality Control Authority (PSQCA) and NED University of Engineering & Technology, Karachi.

The main aim of the MoU is to instigate the awareness and educational Programme on "Standardization, Standards and its role in profession" especially in academia at Karachi.

The MoU was signed by Mr. Muhammad Khalid Siddiq, Director General, PSQCA and Prof. Dr. M. Afzal Haque, Vice Chancellor, NED University of Engineering & Technology, Karachi.

## NUST Win 2<sup>nd</sup> Best Stall Prize at National Science Fair – 2016

NUST team participated in "National Science Fair- 2016" held from 02-07 December, 2016 at Pakistan Museum of Natural History, Islamabad organized by Pakistan Museum of Natural History (PMNH) and Pakistan Science Foundation (PSF). NUST participated to display innovative products / technologies including BCH-II (Upper limb), Nulcer, SurgiSol, Smart Glove for the Speech Impaired, INWERT and Dice MPV-I Students Project. NUST stall won the 2nd Best Stall Award, from Science & Technology Pavilion.

Students and teachers from various schools / colleges / universities demonstrated special interest in stalls available in Science & Technology Pavilion. It provided them a unique opportunity to interact with NUST exhibitors and ask them questions about their innovative research work.



The NUST stall was a feast to the mind as it offered abundance of new knowledge in various scientific fields.

## DG NIO participates in IPCC Meeting at Monaco

The Intergovernmental Panel on Climate Change (IPCC) hold a meeting in Monaco on 6-9 December 2016 to draft the outline of the Special Report on Climate Change and the Oceans and the Cryosphere. The meeting brought together around one hundred experts from over 40 countries including Pakistan. DG Climate Change and DG National Institute of Oceanography (NIO) were invited for the meeting by the IPCC. The Scoping Meeting was supported by the Government of Monaco and The Prince Albert II of Monaco Foundation.

The task of the Scoping Meeting was to discuss the range of potential cross-cutting topics that could be addressed in an IPCC Special Report on climate change and oceans and the cryosphere, to evaluate the availability of new scientific information and its policy relevance, and to identify those key topics that would be ideally covered in a Special Report.

## NUST Win 08 Innovation Awards at UET Peshawar

A team from National University of Sciences & Technology (NUST) participated with innovative products / technologies for exhibiting in the collocated expo during Invention to Innovation Summit -2016 held on 16-17 November, 2016 in UET Peshawar. The Summit was arranged by SATHA (South Asia Triple Helix Association) which is a chapter of THA (International Triples Helix Association) for the promotion and policy advocacy for science, technology and innovation.



In the technical sessions the NUST faculty from SCME delivered lectures related of their respective research works. Top 30 projects from the entire Innovation Expo were awarded prizes. The exhibitors from NUST schools / colleges cumulatively secured 08 innovation awards.

## IHAF holds first General Assembly meeting in Dubai

The International Halal Accreditation Forum (IHAF) recently convened its first General Assembly meeting in Dubai, UAE, setting in motion the official activation of the world's first global Halal accreditation network on Nov. 05, 2016.

The General Assembly has approved a number of resolutions including a recommendation for IHAF to forge a Memorandum of Understanding with the International Laboratory Accreditation Co-operation (ILAC) and International Accreditation Forum (IAF) in order to explore collaboration in maintaining global standards in Halal conformity assessments. This will play a vital role as the membership application of interested Halal accreditation bodies can be supported by their existing membership in ILAC and IAF.



Halal accreditation bodies monitor the entities involved in testing, certifying and verifying Halal products, ensuring that all standards are enforced to give assurance to the consumers that each Halal product is safe, of high quality and full compliance with the Islamic Sharia. IHAF, on the other hand, will ensure that these Halal accreditation bodies strictly and consistently adhere to the principles of Islamic law. The Director General, PNAC participated in the first General Assembly meeting at Dubai and has been selected as member of the Board of Directors of IHAF.

## NUST Installs Solar PV System at Coronet Foods (Pvt) Ltd, Hattar

Science and Technology Ventures (STV), NUST successfully installed and commissioned 65KW Grid Tie Solar System in Feb, 2015 at M/s Coronet Foods (Pvt) Ltd, a subsidiary of Peak Freans Biscuits Manufacturer located at Industrial Estate Hattar KPK. This system had produced almost 100,000 KWhrs in a year which in addition to substantial savings, resulted in reduction of the industry's dependency on diesel generator and grid, being used for operating the plants, thus facilitating industry to decrease their cost of production. Following the successful experience of 65KW Grid Tied PV System in Phase-I, the industry reposed its confidence by requesting NUST to double the



capacity of the already installed System to 130KW in Phase-II. 130KW Solar PV System was successfully commissioned on Oct. 12, 2016. The solar plant has produced 210,000 KWhrs till Jan. 31, 2017.

## Commercialization Cell MoST Organizes One Day Seminar on "Intellectual Property Rights" in Collaboration with PCSIR Peshawar

A Seminar on "Intellectual Property Rights" was jointly organized by Commercialization Cell MoST and PCSIR Labs Complex Peshawar for awareness of the scientists/ researchers of PCSIR as well as other R&D organizations, academia and industries personnel at PCSIR Labs complex Peshawar on December 15, 2016. The seminar was aimed to acquaint the concerned about the importance of patenting, and its benefits. Almost 80 persons participated from different organization including scientists of PCSIR. Dr. S. Shahid Hussain, ED Commercialization Cell MoST was the guest of honour. Two Recourse Persons from IPO-Pakistan Ms. Humaira Shakeel and Mr. Zahoor Ahmed conducted the technical sessions.

### One Day Seminar on Intellectual Property Rights Jointly organized by Commercialization Cell MoST and PCSIR Labs Complex Peshawar on December 15, 2016



## PSQCA Organizes One Day Workshop on QMS ISO 9001:2015

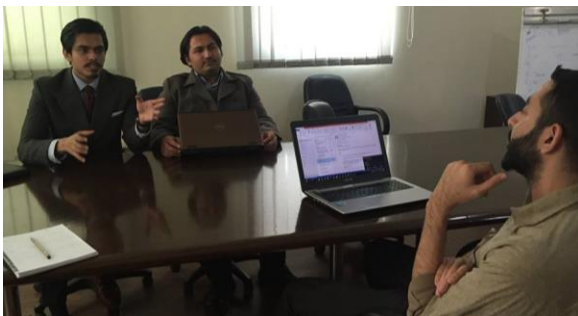
Pakistan Standards & Quality Control Authority (PSQCA) organized a one day workshop on Quality Management Systems (QMS) ISO 9001-2015 at Pakistan Institute of Training for Standardization (PITS), PSQCA, Karachi. The aim of the workshop was capacity building on QMS ISO 9001-2015. The workshop was attended by people from Academia, Consumer Associations and Quality Assurance Departments of different Industries. The two eminent speakers of the workshop were Mr. Kashif Butt, Chairman TC, PSQCA, Executive Committee Member of AOTS/ HIDA Alumni and Dr. Nuzhat Khan, Principal Scientific Officer, National Institute of Oceanography, Karachi.

## Two Days Workshop on "Discovering Leadership through Self Analysis"

The Professional Development Centre (PDC) organized a two days workshop on "Discovering Leadership through Self Analysis" on November 7-8, 2016 at CIE Building, NUST. The main aim of the workshop was to uncover the hidden leader with oneself through self-analysis.

The resource person was Dr. Khurram Sharif, who is a consultant and a trainer with more than ten years of work experience within the high technology, pharmaceutical, oil & gas and telecommunications industries.

The target audiences were senior and middle level managers and executives who are leading the group of individuals. The participants from NDC, ACE International Academy and Khushali Bank attended the workshop.



## NUST holds a Mentoring Session in Collaboration with IBM

IBM team visited Technology Incubation Center, NUST on Nov. 23, 2016. The coaching and one to one mentoring session was a healthy exchange of startup insights about the cloud services and other productive venues on entrepreneurial horizon. NUST Incubatees; Dealsmash, Touched, Cygnus and Disconto got one to one mentoring for their products.

## NUST TIC Trains Incubatees on “How to get funding from ICT R&D Fund”

Technology Incubation center NUST organized a day long training in collaboration with National ICT R&D fund on Dec 15, 2016 at NUST for incubatee companies on how to get funding for startups. Mr. Muhammad Ali Iqbal from National ICT R&D fund conducted the session.



## NUST TIC Incubatee becomes the Showcase Partner at National Science Fair

Oxbridge Innovative Solutions, an incubatee of Technology Incubation Center, NUST showcased Science, Technology, Engineering, Arts & Maths (STEAM) intensive models at The National Science Fair 2016 held at Islamabad from 02 – 07 Dec 2016. They were also made the showcase partner at the event of 3rd National Innovation Forum 2016 held on 08 Dec, 2016 at Serena, Islamabad.



## Two day Operational Training on NTP Synchronize Server at NPSL

Two days operational training at NTP Synchronize Server/ Master Clock successfully conducted by 03 foreigner experts from Malaysia and Singapore at National Physical & Standards Laboratory (NPSL). The objective of the installed system was to improve the calibration and measurement capability of the Time and Frequency Division at NPSL, provide best accuracy based service to the customers and to promote the accurate local time transmission system.

## Delegation from Air Weapon Complex, Kamra visits NPSL

A ten member delegation comprising (Directors and Heads of different technical sections) from Air Weapon Complex, Kamra visited National Physical & Standards Laboratory (NPSL) Islamabad on December 15, 2016 to see the facilities and acquire knowledge on international traceability. The delegation was given a briefing on the activities of NPSL and its working / coordination with international forum to maintain accreditation and traceability. The delegation also visited physical metrology laboratories.



## Participation of LRC-PCSIR in Invention to Innovation Summit at Karachi

Two scientists of Leather Research Centre (LRC), PCSIR presented their developed technologies in technical sessions of Invention to Innovation Summit, Sindh, jointly organized by ORIC, University of Karachi, Institute of Research Promotion (IRP), PCST and PASTIC-PSF on December 06, 2016 at University of Karachi. Dr. Kashif Pervez, PSO presented “Technologies for exotic leather using indigenous raw material” while another presentation was given by Mrs. Sarwat Jahan Mahboob on, “Technology for Chemical Development in Leather Processing”.



## Chinese Delegation visits NIO

A five member's Chinese delegation from National Center of Ocean Standards and Metrology (NCOSM) led by Mr. Bian Mingqiu, Secretary General NCOSM, China of State Oceanic Administration (SOA), China visited National Institute of Oceanography (NIO) with reference to the MoU signed between SOA, China and MoST, Pakistan.

One of the Chinese brand salinometers may be lend to NIO after signing an Agreement of Scientific Collaboration between NCOSM, China and NIO, Pakistan. The Chinese seawater standard will also be made available to NIO for the instrument calibration. NCOSM will provide calibration and testing services to NIO, free of charge. NCOSM will provide technical facilities and training for ISO 17025 pre-arrangements & NIO's participation in Inter Laboratory Exercises. NIO scientists may also avail the opportunity to get Doctoral Degree in the field of standardization specific for ocean applications through Marine Scholarship of the Chinese Government.



## Pakistan Navy Officers Visit NIO



Familiarization visit of NIO: Basic Hydrographic Officer Course 2016 of Pakistan Navy Officers was held on October 13, 2016 at National Institute of Oceanography (NIO). Ten officers of Navigation and Hydrography School PNS Bahadur, Karachi visited NIO. They were briefed about R&D activities of different sections of NIO. They were also taken to different NIO laboratories and briefed about the instruments and their function.

## Agreement between PLC and M/s JANSONS Bio-Tech Peshawar

An agreement has been signed between PCSIR Labs Complex Peshawar and M/s JANSONS Bio-Tech Peshawar for Production of two R&D Products "Aknikure and Coral Calcium".

The agreement was signed by Director General, PCSIR Labs. Complex, Peshawar and the representative of M/s JANSONS Bio-Tech Peshawar on December 25, 2016 at PCSIR Labs. Complex, Peshawar.



## PNAC Conducts Training Course at Bogor, Indonesia



This training course was conducted in collaboration with the International Atomic Energy Agency (IAEA) and the Indonesian Government through the Indonesian Research Center for Veterinary Science (IRCVS), IAARD, Ministry of Agriculture under the Technical Cooperation Program (TCP) INT 5154: "Improving Food Safety through the Creation of an Interregional Network that Produces Reliable Scientific Data Using Nuclear and Isotopic Techniques" from 12-16 December 2016, at Bogor West Java, Indonesia.

The training course was successfully conducted by two officers of PNAC, Mr. Ateeq-ur-Rehman, Director/DDG & Mr. Azhar Iqbal, Deputy Director. 23 participants from 15 countries including Venezuela, Uruguay, Uganda, Indonesia, Tunisia, Nigeria, Morocco, Mongolia, Ecuador, Cuba, Costa Rica, Chile, Bolivia and Benin participated in the training course.

## PNAC conducts Training Course on Uncertainty of Measurement

The Pakistan National Accreditation Council (PNAC) conducted a training course on Uncertainty of Measurement for Testing & Calibration labs from Nov 30 to 02 Dec 2016 at Islamabad. Seventy three (73) participants from different public and private laboratories participated in the training course including KRL, NESCOM, PNAC, NPSL, POF etc. Mr. Osama Melhem, trainer from Abu Dhabi conducted the training course.



## Halal Division of PSQCA conducts Technical Committee Meeting

A meeting of Technical committee was conducted by Halal Division of PSQCA under the Chairmanship of Molana Naeem Shahid, CEO Halal Foundation at PSQCA Complex, Karachi. A Draft “Pakistan Standard-Principles for Food Import and Export Inspection and Certification” and Draft “Pakistan Standard- Guidelines for the Exchange of Information between Countries on Rejections of Imported Food” were discussed in detail and approved for finalization, subject to certain amendments/ changes. The need to draft this standard is that when the food control authorities in an importing country reject a consignment of food presented for importation they should provide information to the exporter of the consignment giving solid reasons for the rejection like evidence of a serious food safety or public health problem in the exporting country; or evidence of serious misrepresentation or consumer fraud; or evidence of a serious failure in the inspection or control system in the exporting country or evidence of non compliance of requirements for Halal food.

This standard is intended to cover all types of food and provide the basis for structured information exchange on import rejections. The scientists, food technologists, academia, industry, certifiers, certification bodies, Islamic scholars, testing authorities, consultants and consumers have shared their views and contributed sincerely towards this important areas of standardization.



## LRC-PCSIR organizes Quality Control & Quality Assurance Awareness Training

The Leather Research Center (LRC), PCSIR arranged one day awareness training on Quality Control & Quality Assurance Awareness for Junior/ Non Commissioned Officers/ Civilians with Instructors of Ordinance College Malir on November 14, 2016. Mr. Raj Kumar Dewani, SO & Muhammad Zeeshan, PT conducted training on the topic of “Quality Control & Quality Assurance Testing” of Leather & Textile. The participants also visited Labs and Tannery area of Leather Research Centre before the training programme.



## SUPER-Moon



The Scientists of National Institute of Oceanography (NIO) conducted a field and boat survey from 14 - 16 November 2016 and initiated warning which was well circulated by the Government to the fishermen of coastal communities as well as fishermen in the sea. During Perigeal Spring Tide event NIO scientists surveyed Ketī Bunder Naval Establishment which was found surrounded by seawater. Bunds were found eroding. Seawater found entering in houses at Hajmaro creek.

