



## Workshop on Application of Robotics Technology for Industrial Development in Pakistan

Ministry of Science and Technology (MoST), in collaboration with National University of Sciences & Technology (NUST), Higher Education Commission (HEC), COMSATS Institute of Information Technology (CIIT), Pakistan Science Foundation (PSF), National Testing Services (NTS) and Centre for Advanced Studies in Engineering (CASE) organized a Workshop on “Application of Robotics Technology for Industrial Development in Pakistan”. Speakers from national/ international academia and industry highlighted the prospects and challenges of applications of Robotics for industrial development of Pakistan.



An exhibition of different robotics products was also arranged by Robotics Startups and students from different universities. Federal Minister for Science & Technology, Rana Tanveer Hussain was the chief guest of the inaugural session while Federal Secretary MoST, Mr. Fazal Abbas Maken was the chief guest of the concluding ceremony. The workshop was concluded on formation of a national level Working Group for furthering the cause of applications of Robotics in the country.

## NUST Hosts 4<sup>th</sup> Convention of FEIAP

The 4<sup>th</sup> International Convention of FEIAP (Federation of Engineering Institutions of Southeast Asia and the Pacific) on Innovation and Engineering Education for Society, Development and Sustainability was hosted by NUST SMME on May 16, 2017. The inaugural session was graced by the presence of Federal Minister for Science and Technology Rana Tanveer Hussain alongside the presiding committee of PEC. The convention also comprised of Four Technical Sessions related to the theme i.e. Engineering Education, Accreditation System Sustaining Environment in the Engineering Profession and ICT role in Sustainable Engineering Solutions.





## Delegation from Beijing Technology & Business University Visits PCST

A three member delegation comprising of senior scientists namely; Dr. Tan Xiangyong, Dr. Zhang Xiaotang, and Mr. Luo Chaoneng from Beijing Technology and Business University (BTBU), China visited Pakistan Council for Science & Technology (PCST) on Thursday May 04, 2017. The Chinese delegates met the Chairman PCST who was accompanied by senior PCST officers and concerned officer of the Ministry of Science & Technology (MoST) and discussed avenues for future collaboration on S&T between the two countries.



## Two Days Orientation Programme for Newly Established ORIC Personnel

As desired by the Higher Education Commission, National University of Sciences and Technology (NUST) launched a 2-day capacity-building program on Monday, April 24, 2017 for the staff of the Offices of Research, Innovation and Commercialization (ORIC) of 27 universities. As many as 60 directors and managers from universities across the country participated in the training. The objective of this training was to brief participants on HEC policy and to showcase NUST ORIC managing activities related to entrepreneurship and commercialization as guide for best practices. The training was a humble effort to share progress NUST has made to develop its ORIC Eco-System. NUST candidly shared its vision, mission, systems and challenges with the ORIC staff of all the participant universities, with the sole objective of learning from each other. To make this training program more effective and interactive, it was divided into 3 batches for 02 days each. The training was concluded on May 4, 2017.



## NUST Incubatee DealSmash Raises 8.8M PKR from National ICT R&D Fund

NUST TIC startup DealSmash, a smart shopping discounts and rewards application has raised a funding of PKR 8.8M from National ICT R&D fund. The raised funds will be utilized to develop an artificially intelligent shopping recommendation system which will recommend live deals and discounts to buyers according to their previous shopping trends.

DealSmash mobile app is currently operating in Islamabad and has recently been launched in Karachi, offering discount coupons at various stores across the city. It also has a Rewards System for most loyal customers who can earn cash-back simply by shopping and dining at any store/ restaurant.





## Review Meeting on Progress & Commercialization Activities of PCSIR

A review meeting on Progress/ Commercialization activities of PCSIR was organized on February 27, 2017 in the Committee Room of MoST. The meeting was presided over by Mr. Fazal Abbas Maken, Secretary Ministry of Science & Technology (MoST). Additional Secretary and senior officers of MoST also attended the meeting.

The Chairman PCSIR and senior officials from PCSIR (Lahore, Karachi, Peshawar and Islamabad) presented their progress in detail especially with reference to commercialization activities. During the presentations, discussion and due deliberations, various important decisions were made by the Chair. The minutes of the meeting were recorded and circulated after the approval of the Secretary, MoST for further necessary actions.



## PCSIR Peshawar organizes One day Seminar on “Medicinal Plants: Emerging Trends of Application in Traditional and Complementary Medicine”

PCSIR Laboratories Complex, Peshawar organized a “One day Seminar on “Medicinal Plants: Emerging Trends of Application in Traditional and Complementary Medicine” on May 24, 2017. The prime objective of the seminar was to bring together galaxy of stakeholders, practitioners, researchers, producers, manufacturers and users of Natural Products to strengthen, promote and develop the existing strengths of the herbal pharmaceutical industry of the province of Khyber Pakhtunkhwa. Dr. Shahzad Alam, Chairman PCSIR, was the Chief guest of the Seminar, and the Technical Session was chaired by the panel of experts i.e. Mr. Qazi Muhammad Murad, CEO CIDEX Laboratories



Peshawar, Dr. Lajber Khan, Ex. CSO PLC, Member DRAP, Prof. Dr. Ikram Ullah Khan, Chairman Botany Department, Abdul Wali Khan University. A large number of industrialists and herbal experts participated in the seminar.

## NUST Signs a MoU with PRCS

NUST Industrial Liaison Office and Pakistan Red Crescent Society (PRCS) signed a MoU on May 24, 2017 under a recently launched NUST Internship Program to acquire over 4000 internship slots for NUSTians in PRCS offices and centers all across the country. The ceremony was conducted at PRCS Islamabad office. PRCS is also interested in setting up a youth club to offer first aid training as well as introducing other similar programs at NUST.





## Belt and Road School to be established at NUST

The Belt and Road Forum for International Cooperation, or BRF was held on May 14–15, 2017 in Beijing that was attended by 29 foreign heads of state and representatives from more than 130 countries including Pakistan. NUST was the only University, present at the BRF. Marking the event, a MoU was signed between NUST and Beihang University China to establish BeiDou Belt and Road School at NUST.

Lt Gen Naweed Zeeman HI (M) (Retd) Rector NUST and Prof Xu Huibin, President Beihang University signed the MoU. The school will provide a first class BeiDou education and Research platform in collaboration with leading universities in the Belt and Road countries to create experts by developing cutting edge skills in Global Navigation Satellite System. NUST is the first university which was invited out of 108 partners of Beihang University to sign this MoU, indeed a landmark achievement for NUST.



## One Day Workshop on "Patent Drafting and Filing of Patent Application"

In compliance to the directives of Secretary MoST, a One day training workshop on "Patent Drafting & Filing of Patent Application" was organized at PCSIR Peshawar in collaboration with IPO Pakistan on May 15, 2017.

Mr. Zahoor Ahmad, Assistant Director was the Resource Person from IPO Pakistan. In his presentation, he discussed about various aspects and problems regarding Patent drafting and its application. The training was attended by 26 Scientists of PCSIR.



The concluding ceremony was presided over by the Director General PCSIR labs Complex Peshawar who also distributed certificates amongst the participants.

## Chairman IRSA visits PCRWR Headquarters, Islamabad

The Chairman IRSA, Syed Mazhar Ali Shah, along with Member IRSA (Balochistan), Mr. Sher Zaman Khan and Director (IRSA) visited PCRWR Headquarter, Islamabad on May 8, 2017.



The Chairman PCRWR, Dr. Muhammad Ashraf gave a detailed presentation about the activities of PCRWR across the country. The IRSA team appreciated PCRWR's work in Balochistan on "Rehabilitation of Karez" and requested to expand this project in more parts of Balochistan and in this regard ensured full support.

The Chairman IRSA also showed particular interest in Indus Telemetry project which PCRWR is undertaken with the collaboration of IWMI. He desired to visit the telemetry stations installed on LBDC (Lower Bari Doab Canal). He also showed interest in installing this system on more canals and barrages.

## Visit of Delegation from China Association for Science & Technology to PCST

A four member delegation comprising of senior scientists from China Association for Science and Technology (CAST) namely; Mr. WANG Qinglin, Deputy Director General, Department of International Affairs, Mr. LI Biao, Deputy Divisional



Director, Division of International Organizations, Mr. LI Pan, Program Officer and Ms. ZHU Yekun, Program Officer, Division of Bilateral Cooperation, Department of International Affairs, visited PCST on May 19, 2017. A meeting of the delegation was held with Chairman PCST, senior officers of the PCST and the concerned officer of Ministry of Science and Technology (MoST).

## Inauguration of New Industrial Liaison Office at PCSIR Peshawar

The New Administration of PCSIR Peshawar after taking the charge has relocated the Industrial Liaison Office as the old office was not only inconvenient for the customers but the privacy and confidentiality of the Lab was at risk as well. Therefore, Director General PCSIR Labs Complex, Peshawar, Engr. Irfan Ahmad Rabbani took the initiative and established the Industrial Liaison Office at the main entrance of PCSIR. The newly established Liaison Office was inaugurated by Chairman PCSIR, Dr. Shahzad Alam on May 05, 2017.



## NUST Organizes an IP Seminar on Innovation-Improving Lives

NUST Intellectual Property Office celebrated World Intellectual Property Day on 26<sup>th</sup> of April 2017. NUST IPO in collaboration US Embassy organized a seminar followed by a panel discussion.

This year the theme was "Innovation- Improving Lives". Mr. Haris Bajwa US Attorney at Law and Mr. John Dickerson (senior lawyer CLDP USDOC) deliberated the session.



## Visit of PCSIR Scientists to Port Qasim Coal Fired Power Project

A team of Senior Scientists of Fuel Research Centre, PCSIR comprising of Dr. Anila Sarwar, SSO, Mr. Muhammad Mateen Khan SSO, Mr. Santosh Kumar SSO and Syed Kabir Shah SO/ILO held a meeting with Mr. Wang Xianfeng, Assistant General Manager & Director of Commercial, Port Qasim Coal Fired Power Project on June 6, 2017.

Mr. Xianfeng gave a briefing about Coal Fired Power Plant and discussed that it is a long time project and will require about thirty years of collaborative work.

The PCSIR Team offered their analytical services in coal testing, coal quality and coal quantity estimation. The Chinese experts showed their interest in the services offered by FRC-PCSIR.





## One Day Convention on "Market Linkage" at PC Hotel Peshawar

The Women Chamber of Commerce and Industry Peshawar organized a one day convention on July 20, 2017 at Pearl Continental Hotel Peshawar. The aim of the convention was to enhance the skills of women entrepreneurs for promotion of their products through creating market linkages. About 200 participants from different Chambers, Associations, Government Organizations and NGOs from all over Pakistan participated in the event.

The PCSIR Laboratories Complex, Peshawar participated in the event and displayed the products, services of PCSIR to create awareness among the participants. DG PCSIR Peshawar, Engr. Irfan Ahmad Rabbani gave a detailed presentation on various testing, training and technical facilities available and Products ready for commercialization at PCSIR. He also highlighted the Certification Incentive Programme of MoST while discussing various aspects and problems regarding certification of different industrial sectors. Mr. Farid Ullah Khan, Director P&D, Mr. Muhammad Farhan Nasir, ILO along with female scientists of PLC also interacted with the participants of the convention.



## NUST Successfully Concludes Round 1 of ILM Ideas 2

NUST Technology Incubation Center (TIC) successfully concluded round 1 of ILM Ideas 2. The program provides a platform for the generating, piloting and scaling up of innovative solutions to address critical education challenges in Pakistan. The program is funded by UKAID with a vision, to create a sustainable community that will have the capacity to identify and support new education innovations. Therefore, ILM Ideas 2 has partnered with NUST TIC to support the incubation of innovative startups in the education domain which have a potential to scale up and offer sustainable solutions to the education crisis. Under the program, TIC identified and incubated, the following 03 startups, focused on education domain.

1. Architect Cab: A Mobile learning unit with the Prototype developed and patent secured. Currently negotiating with customers. 2. Edify: Online portal for teacher training with the Prototype developed. Currently seeking funding for team development. 3. 3Kay: Wi-Fi Content server for education with commercial product ready for market launched. Currently working with NGOs in KPK.



## Agriculture Machinery Manufacturing Companies Associated with Vehari Chamber of Commerce & Industry visits PCSIR Lahore

The Ministry of Science and Technology (MoST) is keen on improving quality and productivity of key sectors including the agricultural machinery manufacturing by incorporating indigenous Research & Development. In line with the vision of MoST, STEDEC Technology Commercialization Corporation of Pakistan coordinated a visit of delegation of Agriculture Machinery manufacturers and member companies of Vehari Chamber of Commerce and Industry to PCSIR Laboratories Complex Lahore on April 27, 2017. The visit was aimed at making the delegation

familiar with facilities at PCSIR Lahore relating to manufacturing of agriculture machinery as the members of the Chamber had requested during an earlier visit of MD STEDEC to Vehari Chamber of Commerce & Industry.

The delegation was welcomed by DG PCSIR Lahore, Dr. Quratulain Syed and MD STEDEC, Syed Raza Abbas Shah. The 15 member delegation from VCCI was headed by Mr. Abdul Rauf Chaudhary, President Vehari Chamber.

Mr. Abdul Rauf Chaudhary appreciated the opportunity provided to them and applauded STEDEC's efforts in materializing the visit and meeting. He urged everyone to put in their most sincere effort towards enhancing Pakistani economy. MD STEDEC highlighted to the delegation Ministry of Science and Technology's objective to help and support local industry and emphasized the importance of meeting the international standard in increasing the exports. He requested VCCI to submit indicated areas for cooperation between the Manufacturers and PCSIR after the delegation had visited and assessed the various facilities. The delegation was given a briefing and a tour of various departments and facilities of PCSIR by DG PCSIR.



## PCRWR Conducts Training of Trainers at Bahawalpur

A 7-day training program was conducted in Bahawalpur from April 17-23, 2017. In this training program PCRWR team presented basic on-farm irrigation water conservation practices, demonstration and training on tensiometers, Chameleon field reader & sensors and Wetting Front Detector (WFD). The participants were from partner organizations; PCRWR Headquarter, Regional Offices Lahore, Bahawalpur; SSRI-NARC, SOF; students from Islamia University Bahawalpur and farmers. In addition to demonstration and hand-on training on irrigation water management tools, the participants were also trained in learning models to be used on pilot sites, namely; Discovery Learning Model, Value Management and Collaborative Problem Solving.



## Exploratory Meeting between STEDEC and Gujranwala Chamber of Commerce & Industry

The Managing Director STEDEC visited Gujranwala Chamber of Commerce & Industry on May 23, 2017 and met the President GCCI, Mr. Saeed Ahmed Taj and office bearers of the Chamber.

MD STEDEC briefed the participants on STEDEC's mandate and efforts to develop linkages between industry and R&D organizations of Ministry of Science and Technology (MoST). He informed that MoST through STEDEC and PCSIR would like to engage with key industry clusters around the Gujranwala region to enable them to incorporate indigenous R&D into their value chain and become internationally competitive.

Mr. Saeed Ahmed Taj, President GCCI praised the efforts of STEDEC to reach out to the local industry. He informed that Gujranwala is an important industrial region of the country with 32 different industrial clusters concentrated within it. Metallurgy and Ceramics was identified as the key industrial clusters for which the Chamber would like to initially solicit support from MoST R&D organizations. He suggested that a laboratory facility for metallurgy may be set up at Gujranwala, which would greatly facilitate the industry in creating better alloys for various products and industries. Other matters discussed were how to address wastage of material in traditional rolling process, improving quality of products and addressing emission of pollutant gases from the industry.



## NUST and Gujranwala Chamber of Commerce & Industry sign an MoU

NUST hosted a fundraising dinner reception in Gujranwala on Monday, May 22, 2017 in honor of Gujranwala Industry & Philanthropists. The event helped raise subsequent funds for NUST Need Based Scholarship program and led to Memorandum of understanding between NUST & Gujranwala Chamber of Commerce & Industry for greater partnership in enhancing Industry Academia Linkage. The event was attended by around 50 industrialists of the region including President Gujranwala Chamber of Commerce & Industries.



## PCSIR Organizes Two Day Women Training on Fruit Processing at Swat

PCSIR organized a Two Day Training on Fruit Processing and Preservation for Females at Swat on 22<sup>nd</sup> and 23<sup>rd</sup> May, 2017. These training programmes which are being organized by PCSIR on regular basis, proved helpful for the people of SWAT and contributed in their income generation. These are also helping the communities to reduce their dependency on market and combat food insecurity in the area.



## Focus Group Meeting at Gadoon Industrial State, KPk

The Commercialization Cell MoST arranged a Focus Group Meeting in collaboration with PCSIR Laboratories Complex Peshawar with important industrial sectors including Chemical, PVC Pipes, Pharmaceutical and Textile at Gadoon Amazai Industrial Estate, Swabi. Dr. Syed Shahid Hussain, Executive Director Commercialization Cell was the Chief guest. Dr. Ahmad Bilal, Deputy Director Commercialization Cell delivered a detailed presentation on Commercialization Programme of Ministry of Science & Technology. Another presentation was given by Mr. Farid Ullah Khan, Director P&D, PCSIR Peshawar covering the products/ processes and technologies ready for commercialization and also the services available at PCSIR Labs Complex Peshawar. The participants also discussed various issues/ problems of their industries and sought technical advice from PCSIR's technologists.





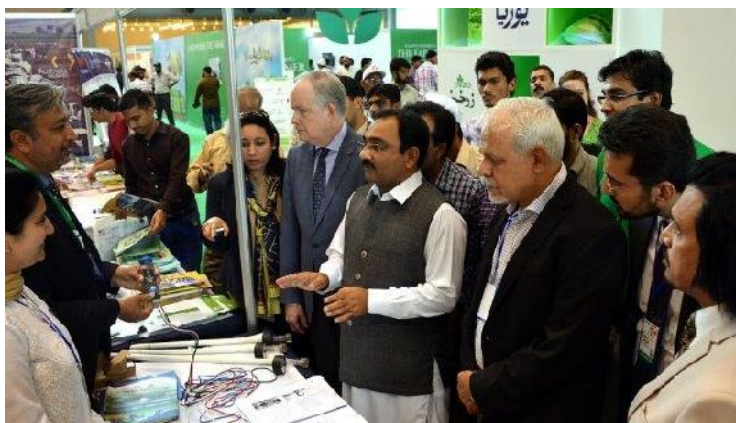
## Federal Secretary MoST visits PCSIR Labs Complex Lahore

The Honorable Federal Secretary MoST, Mr. Fazal Abbas Maken, alongwith Chairman PCSIR, Dr. Shahzad Alam and Director General LLC Dr. Qurat-ul-Ain Syed, visited PITMAEM (Pakistan Institute of Technology for Minerals and Advanced Engineering Materials) on June 05, 2017 to monitor the need based R&D projects including Pilot Plant of Coal Water Slurry Fuel (CWS) and Solar Cell. These projects were funded by MoST. Engr. Muhammad Irfan, Head PITMAEM, LLC, briefed about the details of the project. The Honorable Secretary appreciated the completion of projects within the limited time frame. He appreciated the whole team for combine efforts.



## PCRWR Participates in DAWN Pakistan Food & Agriculture Expo 2017

Pakistan Council for Research in Water Resources (PCRWR) is implementing two projects under Australia's Water Program for Pakistan, in collaboration with Australian Centre for International Agricultural Research (ACIAR). In this regard PCRWR participated in Dawn Food and Agriculture Expo held in Lahore during April 4-5, 2017. The irrigation water management tools to be used in the projects i.e. Chameleon Moisture Sensor and Meter; Wetting Front Detector; and Tensiometers fabricated locally by PCRWR were displayed in the Expo. The Australian Deputy High Commissioner and Minister for Agriculture Punjab graced the event as Chief Guests.



## PCRWR's Delegation Participates in Asian Development Bank Meeting

PCRWR delegation comprising of Dr. Ashfaq A. Sheikh (Director General) with his team participated in consultative meetings organized by Asian Development Bank (ADB) at Quetta for Water Sector Development Project. The major objective of these meetings was to help assist ADB for the evaluation of Water Resource Information System (WARIS) developed by ADB's consultants under its Water Resource Improvement Project being implemented in Balochistan. During discussions, ADB requested PCRWR's help for capacity building of relevant departments in Baluchistan.





## 2<sup>nd</sup> Incentive Award Committee Meeting at PCSIR Labs Complex Lahore

The 2<sup>nd</sup> meeting of Incentive Award committee (IAC) of ongoing PSDP Project of MoST, “Certification Incentive Programme (CIP) for SMEs under PQI Initiatives 2025” was held at PCSIR Laboratories Complex, Lahore on June 09, 2017. Mr. Shaheen Raja, Project Manager, CIP, MoST chaired the meeting. Mian Shaukat Masud, Vice President, FPCCI, Mr. Muhammad Javed Afzal, Deputy G.M. (Outreach) SMEDA, Dr. Shahzad Afzal, Director SDC, PSQCA, Dr. Quratulain Syed, DG PCSIR Labs. Complex Lahore, Engr. Irfan Ahmad Rabbani, DG, PCSIR Labs. Complex Peshawar, Mr. Ehsan-ul-Haq Najmi, SSO, PCSIR Labs. Complex Lahore, Mr. Muhammad Azhar, SSO, PCSIR Labs. Complex Lahore participated in the meeting. The Project Manager, CIP briefed the salient features of the Programme launched by the Government under PQI initiatives and the role of Incentive Award Committee (IAC). He informed the participants about the previous reviews regarding the approved applicants. In this regard, 39 cases were discussed for approval of Incentive Grant and suggestions were received from the respected committee members.



## Consultation Session with Pakistan Agriculture Machinery Manufacturers Association at Faisalabad Chamber of Commerce & Industry

Agriculture Machinery Manufacturing has been identified by Ministry of Science and Technology as one of the key sector that need support of MoST’s R&D organizations in improving quality and productivity. In line with the vision and objectives of MoST, MD STEDEC Syed Raza Abbas Shah arranged a consultation session with Pakistan Agriculture Machinery Manufacturers Associations (PAMIMA) at Faisalabad Chamber of Commerce & Industry on May 24, 2017.

MD STEDEC informed the participants that STEDEC facilitates linkages of MoST R&D organizations with various chambers that have direct interaction with the industrialists, and strives to guide MoST R&D organizations towards market driven research which could then lead to successful commercialization. He advised that PAMIMA may send their proposals for cooperation, including establishing testing facility at Faisalabad, to STEDEC. Mr. Rasheed Ahmad Principal Engineer, PCSIR Lahore enlightened the participants



about capabilities of PCSIR. He also informed about diploma courses which PCSIR is offering related to Precision System Training Centre (PSTC) and Foundry at PCSIR Lahore. Participants inquired about cost effective ways of minimizing cost and standardizing production. President PAMIMA proposed that PAMIMA members would pay a visit to PCSIR facilities at Lahore in order to familiarize themselves with techniques and technologies PCSIR can offer, which would enable them to better assess areas for mutual cooperation.



## First Working Group Meeting: Extension in the Outer Limits of Pakistan Continental Shelf-Exploiting the Resource Potential in Pakistan's Maritime Area

The first Working Group Meeting – Extension in the outer limits of Pakistan Continental Shelf Exploiting the Resources Potential of Maritime area was convened on April 7, 2017 by the Director General, National Institute of Oceanography (NIO) who is the designated Chair of the Committee constituted by the Prime Minister. DG NIO briefed about the 1st Inter-Ministerial Committee Meeting and then Dr. Samina presented salient features of the Minutes of the first Inter-Ministerial Meeting.



Various issues were discussed included Province wise boat registration, fishing nets specification, illegal nets use in our areas. Act is there but no implementation to stop illegal activities. Mr. Waseem Khan DG MFD didn't attend the meeting. Sindh Fisheries Department representative, Dr. Rukhsana said that in 1999, Bangaly fishermen started using small mesh nets but now many are involved in using Katra net, a small size nets to harvest fish juveniles/ larvae resulting in declining of future fish potential in creek waters. She brought in notice that the catch of pomfret fish is in small size due to intensive harvesting. Cdr. Salman said about ship opportunity and suggested that Maritime Security Agency and Coast Guard can also be engaged for data collection in our waters. Representatives from Port and shipping and Balochistan Fisheries Department also attended the meeting.

## Survey to assess Socio Economical Impact of Coastal Erosion and Coastal Oceanography along Pasni Fish Harbor and Shadi Kkaur Area, Pasni



NIO conducted a survey along the Pasni Fish Harbour during 27 April – 2 May, 2017 to Study Hydrodynamic studies along the coastal waters of Shadi Kaur, Pasni. Ecological and environmental studies were also studied. Bathymetric survey conducted to validate the archive the bathymetric data of Pasni. Socio-economical survey conducted to assess the land loss. Data collected on Bathymetry, ocean current, tidal observations at various locations included sediment sampling, side scan sonar survey to image the precise sea bed, grain size and suspended sediment concentration.

## Erosion along the Coast of Damb Sonmiani

NIO scientists conducted a survey at Coast of Damb Sonmiani from 18-22 April 2017. Consequently, an ebbing flood with greater magnitude velocity swept the near coast village infrastructure the vicinity coast line. NIO team visited the affected area, interviewed local community and fishermen. The team recorded observation of the damages and investigated geological causes of the erosion. Sand grain size analysis in lab demonstrated that Sonmiani beach sand is mostly comprised of very fine grain sand particles (70 %) and coarse silt (20 %).





## Keynote Lectures by Chairman PCST

The Chairman PCST, Prof. Dr. Ahwar-ul-Hasan Gilani delivered a keynote lecture titled "How Ramdhan Fasting can improve Health and Cure Chronic Diseases like Diabetes and Raised Blood Pressure and Cholesterol" at International Islamic University Islamabad on April 06, 2017. Dr. Gilani was the Chief Guest in the 4<sup>th</sup> One Day Symposium on Recent Trends in Life Sciences at University of Central Punjab where he delivered his keynote Lecture on "Prophetic Medicine: Way Forward for Healthy Society" on April 17, 2017. He as a

Guest of Honor at Invention to Innovation Summit at University of Baluchistan, Quetta delivered a keynote lecture on "Health Challenges of Modern Life Style and Treatment with Prophetic Medicine".



## Delegation from National Management College (former NIPA) visits PCSIR Lahore

A delegation from National Management College (former NIPA), visited PCSIR Laboratories Complex, Lahore on June 14, 2017 as a part of study tour. They were introduced about the existing advanced R&D and testing facilities available at the Centre. Engr. Muhammad Irfan, Head PITMAEM (Pakistan Institute of Technology for Minerals and Advanced Engineering Materials) gave a brief introduction and discussed on matters relating to its functioning and delivery of service to the public and local industry.



## NUST Launches CYKIQ

To address the short-distance commute problems of the on-campus community, a group of students comprising of Ans Shehzad & Hamza Afridi from NUST-SECS and Ammara Tariq & Sanam Khan from NUST SADA conceived an automated bicycle hiring system under the project titled CYKIQ. Multiple CYKIQ stations have been established at important locations, which provide a combustion-free, healthier, cost-effective and convenient solution to the short distance commuters. CYKIQ team is engaged in developing a high-tech system using a prepaid RFID Card, a registered user can unlock a bicycle from any station to commute to any other station and park the bicycle at the destination station. Through a mobile app, the users are also provided with real-time information about the availability of bicycle(s) at the nearby CYKIQ station(s). The launching ceremony for this entrepreneurial project CYKIQ was held on May 10, 2017.



## PCRWR Successfully Completes WWF/ ICIMOD Collaborated Project in Hunza

PCRWR in collaboration with WWF implemented an ICIMOD funded project, "Agricultural Water, Energy and Hazard Management for Improved Livelihood in the Upper Indus Basin area of Pakistan". The community interacted project envisaged rehabilitation of disrupted water supplies at Ghulkin & Azizabad and development of apple orchards through solar-powered drip irrigation at Passu and Morkhoon, Gojal, District Hunza. PCRWR has successfully completed the project in June, 2017 achieving all major targets and objectives. The apple orchards have been developed on 6-acres each, whereby plant survival rate is above 90%. The solar-powered drip systems are working fine with PCRWR' developed low-cost water filter to directly lift water from river carrying sediments. The deserted Shahabad valley is greening after resumption of water supplies from Passu glacier, which was retreated due to climate change, abandoning centuries old irrigation system. In Azizabad, almost 2500 mature trees were saved due to timely resumption of water supplies. Applause from WWF and communities was heard during post-project inspection.

