



Quarterly Newsletter of Commercialization Cell, MoST

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Inauguration of Pakistan Sub-Center of China South Asia Technology Center at PCSIR, Islamabad

The Federal Minister for Science & Technology, Rana Tanveer Hussain and Vice Premier/ Minister for Science & Technology, People's Republic of China, Mr. Wang Yang jointly inaugurated Pakistan Sub-Center of China South Asia Technology Transfer Center (CSTTC) on July 8, 2017 at PCSIR, Islamabad.

The main purpose for the establishment of CSTTC-Sub Center Pakistan is to provide a strong platform for transfer of technology to the local industry. The CSTTC would also facilitate Chinese assistance in mega infrastructure projects that include Energy, Technology and Road Networks through Build-Operate-Transfer (BOT) or Public-Private-Partnership.

Moreover, China would enhance collaboration with Pakistan in the fields of telecommunications, agriculture, trade, railways, industry and infrastructure building. Joint Research labs would be established for providing training to the scientists of South Asia and South East Asian countries.

It is hoped that CSTTC would not only promote the research and development activities at PCSIR and its commercial partners but it would also strengthen the local industry of Pakistan to boost the country's economy.



Secretary MoST visits PCSIR Lahore for a Progress Review Meeting

Mr. Fazal Abbas Maken, Federal Secretary, MoST and Dr. Shahzad Alam, Chairman PCSIR visited PCSIR Laboratories Complex Lahore on August 28, 2017 for a progress review meeting. The agenda of the meeting was to review and discuss R&D activities, output and commercialization strategies pertaining to need based and MoST funded projects.



Dr. Quratul Ain Syed, Director General PCSIR Laboratories Complex Lahore gave a presentation about the achievements of LLC. Dr. Shahzad Alam, Chairman PCSIR spoke about HR development in PCSIR.

Secretary MoST visited various pilot plants e.g Fermentation pilot plant, Coal water slurry pilot plant, Fuel and Solar cell pilot plant and Powder metallurgy pilot plant.

The Federal Secretary also visited EMTL (Electrical Measurement and test Laboratory) and Polymer Testing Laboratory which has been established in collaboration with M/s Burhan Gas Company for testing as per ISO-17025 requirements.

PSQCA and GC University Lahore signs a MoU to Promote Research and Awareness about Quality Control in the Country



Prof. Dr. Hassan Amir Shah, Vice Chancellor Government College (GC) University Lahore and Engr. Muhammad Khalid Siddiq, Director General PSQCA signed a MoU for mutual cooperation. According to the agreement, PSQCA will provide technical assistance to the GC University for establishing a standardization, quality and technology management wing and developing quality control education programmes. PSQCA will also include senior faculty members and scientists of the GC University in its technical committees for different products evaluation. PSQCA and GC University officials also agreed to undertake joint research projects in the areas of common interest and sharing both

human and material resources, including instruments, services and facilities. Both organizations will hold joint seminars to promote awareness among the youth about the quality control. DG PSQCA also highlighted the need to include subjects related to quality control and quality assurance in the university curriculum.

NUST Incubatee presents at ITU's International Conference on ICTs and Entrepreneurship in Colombo, Sri Lanka

NUST incubatee Shahryar Muhammad Khan founder and CEO of SWAM Tech has specialized in mobile applications development. He was invited at an international conference on "ICTs for Innovation and Entrepreneurship", held from 12-15 September in Colombo, Sri Lanka. The conference was jointly organized by International Telecommunication Union (ITU) and Telecom Regulatory Commission Sri Lanka (TRCSL). The objectives of the workshop were to increase practical entrepreneurial skills of students and train the trainers who will impart the same skills at the provincial level. Over 35 people participated in the prestigious conference, including representatives from various organizations of Sri Lanka.



Chinese Delegation from YASTI visits PCSIR

Mr. MA Min Xiang, Director General, Yunnan Academy of Scientific and Technological Innovation (YASTI), alongwith his team members from Department of Science & Technology and Yunnan Agricultural University, Peoples Republic of China visited PCSIR Head Office, Islamabad on July 7, 2017.



During his visit, Mr. MA Min Xiang briefed that YASTI is a Public Research Institute affiliated with the Department of Science and Technology of Yunan Province. The Institute has almost similar nature of activities as of PCSIR. Dr. Sahazad Alam, Chairman PCSIR briefed the delegation about the activities of PCSIR. He proposed that PCSIR and YASTI can collaborate for the Establishment of state-of-the-art laboratory at Gwadar, Baluchistan which would be helpful for the Chinese manufacturing

companies who are investing in Pakistan under CPEC Project. He further proposed the collaborative areas of S&T including Nano-technology, Bio-technology, Material Science, Natural medicinal Recourses, Agriculture and Training of Skilled Manpower. Mr. MA Min Xiang gave suggestion for the formation of Research Group on common problems like Health, Environment and Climate Change. The exchange of Scientific and Technological information would be made jointly by both the organizations i.e., PCSIR and YASTI. Mr. MA Min Xiang, on behalf of the delegation members, thanked the Chairman PCSIR and assured their full support & cooperation in the field of S&T.

Gambian Delegation visits PCSIR, Head Office, Islamabad

Mr. Yaya Sireh Jallow, Permanent Secretary for Higher Education Research, Science & Technology, Republic of the Gambia along with three delegation members including Vice Chancellor of the University of Gambia (UTG) Prof. Dr. Faqir Muhammad Anjum visited PCSIR office Islamabad on Sept 14, 2017 and held a meeting with the Chairman PCSIR, Dr. Shahzad Alam.



The Chairman PCSIR gave a presentation about PCSIR and impressed upon the importance of skilled manpower for development of the country. He explained role of PCSIR in development of skilled manpower for industry through its technical training institutes. He offered cooperation in human resource development through tailored made training courses for students and professionals from Gambia.

Mr. Yaya Sireh Jallow appreciated the offer and identified areas for cooperation such as skill development for food processing and preservation, dehydration techniques, value addition and testing facilities for food products especially marine food products. He also showed keen interest for cooperation in rehabilitation of foundry industry and development of standardization and calibration facilities in Gambia.

The Chairman PCSIR assured his full cooperation in the identified areas and marked this event as the beginning in relations and cooperation between Pakistan and Republic of the Gambia.

At the end of meeting, Chairman PCSIR in the presence of Additional Secretary, MoST handed over the PCSIR's developed & fabricated laboratory equipment and glassware for the University of Gambia (UTG) as donation.

PCSIR Peshawar team visits various Chambers of Commerce and Industry

Director General PCSIR Labs Complex Peshawar Engr. Irfan Ahmad Rabbani along with senior officers held a meeting at Mardan Chamber of Commerce and Industry, Mardan.

The Certificate Incentives Program of Ministry of Science and Technology was discussed in detail.



The Director General PCSIR Peshawar along with Director Planning & Development also visited Women Chamber of Commerce and Industry Peshawar (WCCIP) and held a meeting with the President, WCCIP on July 17, 2017.

Main purpose of the meeting was commercialization of products developed by PCSIR scientists through Women Entrepreneurs.

PSQCA arranges SARSO Standards Body of SAARC Technical Committee meeting on Electrical, Electronics, Telecom and IT

The main purpose of the meeting was to harmonize the standards. The meeting was Chaired by Engr. Gulzar Memon and two standards on Electric Cable Fluorescent Lamp were discussed and finalized.

Mr. Muhammad Ashraf, Additional Secretary, Ministry of Science and Technology (MoST) was the Chief Guest and in his speech he said that the role of SARSO within SAARC region is very important for harmonization of standards and will play a vital role in the trade development and improve the export of Pakistan in the region.



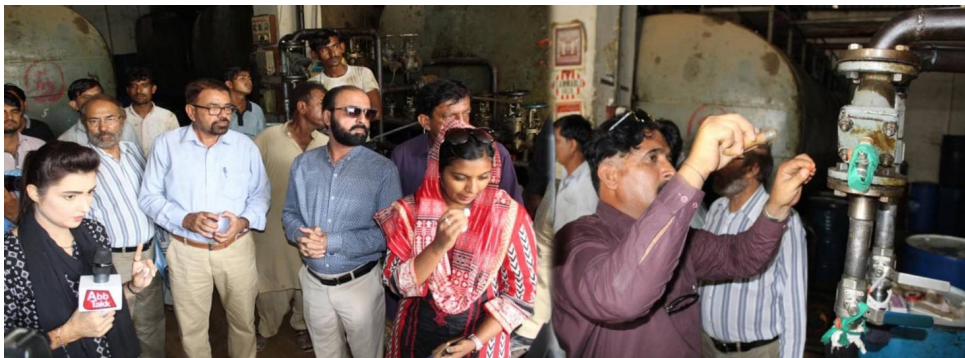
Mr. Muhammad Khalid Siddiq, Director General, PSQCA, in his remarks said that it is the first time in history of SARSO, that PSQCA has been given Chairmanship of Technical Management Board (TMB). In view of importance of Standardization and Standards in industrial development, PSQCA has initiated awareness Programmes on Standardization in Academia and has signed 18 MoUs with renowned Universities of Pakistan to develop

collaboration with Academia. PSQCA has also launched a mobile application for feedback of the end users related to quality of different products having Toll Free No. 0800-80000.

The meeting was attended by technical experts from Bangladesh, Bhutan, Nepal, Sri Lanka, Pakistan and representatives from SARSO Secretariat, Dhaka, well reputed Business committee from Federation of Pakistan Chambers of Commerce & Industry (FPCCI) and Karachi Chamber of Commerce and Industry (KCCI). The meeting ended with the closing remarks of SARSO Desk from Dhaka with vote of thanks for the good hospitality by PSQCA and Ministry of Science and Technology.

PSQCA Team Seals Factories Manufacturing Substandard Products

A team from PSQCA raided Oil and Ghee Mills at Korangi Industrial Area, Karachi. The team caught sub-standard unlicensed Ghee & Cooking Oil from M/s Chamba International Oil Mills i.e. Chand Sooraj Banaspati, Dara-e-Khaiber Banaspati, GoGo Banaspati, Sher-e-Punjab Banaspati. The factory was using Pakistan Standards Mark on the packing of Ghee/ Cooking oil without having license from PSQCA. The team seized the products on spot and sealed the factory. PSQCA has warned producers and manufacturers to manufacture products according to Pakistan Standards specifications and display the Pakistan Standards Mark on their products after receiving valid license from the Authority failing which the Authority will take action under the rules.



PSQCA also seized a unit of M/s. Golden Lubricants also working as Sharjah Lubes International Engine Lubricating at Site Karachi. The unit was found involved in illegal production and sale of lubricant Engine oil. As per Act of PSQCA, it is mandatory to get license from PSQCA for production of lubricant oil.

The Team member included Mr. Javiad Hussain Siddique, Dy. Director, Conformity

Assessment South, with Ms. Sara Jawiad, Assistant Commissioner (West) Karachi also the NGO-(CRPC) Representative Mr. Shakeel Baig.

NUST hosts Mega International Hackathon – TADHack 2017

National University of Sciences and Technology (NUST) hosted a 2-day mega international Hackathon – Telecom Application Development Hackathon (TADHack) 2017 on 23rd - 24th September at NUST H-12 Campus as well as at NUST PNEC Karachi in collaboration with Telestax USA, Ufone, National Radio Telecommunication Corporation and Technology Innovators.

The TAD is a US based initiative that was started in 2013 as a grassroots effort to build an ecosystem focused on telecom application development. The mission is to bring together businesses, developers, non-coders and enthusiasts in using telecom capabilities in their applications, services, or businesses to solve local and global problems.



NUST received an overwhelming response from all over Pakistan but shortlisted 15 teams to participate in the mega event. An independent panel of judges assessed the applications developed by the participants declaring “Moomble” by Mr Muhammad Hamza Zakir as the winner and “Sahulat” by Mr Osama Arshad Dar, Mr Shahzeb Naveed and Mr Haider Ali Cheema as the runner up. The session was joined by Mr. Ivelin Ivanov, the co-founder and Chief Executive Officer of Telestax USA, through the online channel. NUST received great support from the Telecom industry as Ufone and National Radio Telecommunication were the official sponsor and partner for the event. The event was attended by representatives from the industry, businesses and various govt organizations. Speaking at the occasion, Pro-rector NUST Rear Admiral Dr. Nassar Ikram HI (M) highlighted the importance of Hackathons to instill the entrepreneurial capabilities amongst our youth and in bringing together the industry, businesses, developers and students. Chief Guest, Mr Nooruddin Baqai, chairman of ICT Think Tank distributed the certificates, prize money and souvenirs to the participants of the event.

PCSIR Peshawar participates in “Market Linkages Convention”

PCSIR Laboratories Complex Peshawar exhibited its products in “Market Linkages Convention” organized by Women Chamber of Commerce Peshawar on July 20, 2017.

The DG PCSIR Engr. Irfan Ahmad Rabbani gave a briefing regarding products/ technologies developed by PCSIR scientists and the services being offered by PCSIR for SMEs. Dignitaries from Iranian Consulate Peshawar also participated in the convention.



Focus Group Meeting With Delegates from Pakistan Dairy Association (PDA)

PCSIR Labs Complex Lahore held a focus group meeting with representatives of Pakistan Dairy Association (PDA) on July, 03 2017 at PCSIR Lahore to discuss services available at PCSIR regarding milk and milk products quality control/ assurance and future collaboration. Mr. Furrukh Shahzad, Secretary Pakistan Dairy Association (PDA), Mr. Rao Imran, manager R&D, Fauji Foods Ltd, Mr. Ifthithar Ahmed, head quality assurance, Haleeb Food Ltd attended the meeting.



Dr. Quratul-Ain- Syed, DG PCSIR Lahore chaired the meeting and Dr. Shaista Jabeen Khan, Head FBRC (Food and Biotechnology Research Centre) along with scientists from Dairy Lab attended the meeting. Consequently PDA sent milk samples for testing and Mr. Iftikhar Ahmed, Head Quality Assurance, Haleeb Foods Ltd showed keen interest in accreditation of their laboratory and requested to render the services of PCSIR in this regard.

Thereafter, a team from Dairy and Quality lab PCSIR visited Haleeb Foods Ltd for assessment of their lab. Furthermore, a consultancy was provided to PDA for assessment of quality of various milk brands selected and sampled by PDA to improve/control the quality of milk available for consumers.

Representatives of UNIDO visit PCSIR Lahore

A meeting with Mr. M. Hammad Bashir Saeed, Project Technical Expert, along with representatives of UNIDO regarding the “Cleantech Platform for Innovators” was held on September 21, 2017 at PCSIR Laboratories Complex Lahore. Dr. Quratulain Syed, Director General, Engr. Liaqat Hussain, Director (P&D) and Heads of all Centres of PCSIR were present in the meeting. A discussion was made on UNIDO programme called Global Cleantech Innovation Programme (GCIP) which provides the platform to innovators for their business promotion and global competition.



NUST participates in CPEC Logistics International Forum (CLIF)

NUST team participated in “CPEC Logistics International Forum (CLIF)” held from 12-13 July, 2017 at Pak China Friendship Center, Islamabad organized by National Logistics Cell. NUST displayed innovative products / technologies with representation from SEECS, SMME, College of E&ME. General Qamar Javed Bajwa, Chief of Army Staff (CAOS) visited the NUST stall and appreciated the innovative technologies. The exhibition was opened to members of the general public. However, 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.



Focus Group Meeting between PCSIR and Quran Board

A focus group meeting with Mr. Javed Akhtar Chaudhary, Secretary, Quran Board along with representatives was held on September 28, 2017 at PCSIR Labs Complex Lahore to discuss “Quality Assurance of Paper used in Printing of Holy Quran”. Dr. Quratulain Syed, Director General, PCSIR Lahore, Mr. Qayyum Athar, Head, ACRC (Applied Chemistry Research Centre), Mr. Ehsan ul Haq, SSO, Mr. Hamood ur



Rehman, SO, Mr. Atif Latif, SO were present in the meeting. Quran board appreciated the role of PCSIR Labs. Complex Lahore for providing the guide line regarding Quran paper printing.

CEO Pakistan Ostrich Company visits LRC, Karachi



Leather Research Centre (LRC) of PCSIR Karachi is working with M/s. Pakistan Ostrich Company from last few years in Research & Development particularly in processing of Ostrich Leather. In this connection Mr. Raja Tahir, CEO with his team visited LRC to survey the Ostrich articles which were designed and developed at LRC. The team appreciated the efforts of LRC Scientist and Technologist for development of new process & product from Ostrich Skin. Dr. Hafiz Rub Nawaz, Director, LRC suggested various measures regarding handling, storage & preservation of Ostrich skins after slaughtering that would give more benefits to the exporters of Ostrich Leather & articles.

CYKIQ making waves throughout International Media

CYKIQ, a rising startup incubated at NUST Technology Incubation Center (TIC) that offers Pakistan's first automated bicycle sharing service, recently made waves in international media. CYKIQ was covered by international news agency Reuters and subsequently featured on the Times of India, The Rahnuma Daily- India, Dunya News and The Express Tribune, among others.

Since its launch in May, CYKIQ has received an overwhelming response, with more than 250 members - half of which are women - benefitting from their services. An Android mobile app will also be launched soon, which will make it even more convenient to rent bicycles, track one's history and make mobile payments.



Australian Awards Alumni visits NUST

Representatives from The University of Queensland (UQ) were in Islamabad to deliver a workshop to budding entrepreneurs who participated in an Australia Awards short course on Business Incubation Management held in Brisbane earlier this year. In order to meet the requirements of the program, participants had to visit a well-established, high index incubator. For the purpose, NUST Technology Incubation Centre was visited by the delegates on September 13, 2017.

Adnan Faisal, GM NUST Technology Incubation Centre, gave the participants a detailed presentation on the Pakistani entrepreneurial ecosystem and then they were taken on a tour of the Centre. The participants were also introduced to the rising and successful entrepreneurs incubated at NUST Technology Incubation Centre.



LRC-PCSIR, Karachi conducts Awareness Seminars to save Skin/ Hides from various defects

Lack of awareness about the preservation of raw skin/ hide of animals on the occasion of Eid-ul-Adha causes a huge amount of lost to the economy of Pakistan. In this connection Leather Research Centre (LRC) Scientist delivered presentations in two Seminars which were jointly organized by LRC, Al- Mustafa Welfare Trust and Jamia Islamia Banuri, Karachi respectively on "Flaying, Curing & Transportation of Skin & Hide" on the 20th and 29th August, 2017.

Mr. Muhammad Hanif Tayyab, Chairman Al-Mustafa trust, former Federal Minister for Petroleum and Natural Resources and other eminent participants of the Trust & Jamia highly appreciated the objective of awareness programme in national interest to save



the skin/hide from various defects like butcher cuts, salt stains, drying, corrosion and putrefaction.

Visit of National Highway Authority (NHA) Delegates to PCSIR Peshawar and Lahore

STEDEC Technology Commercialization Corporation of Pakistan facilitates MoST R&D organizations in their commercialization activities by developing effective and productive linkages with the business community and industrial sectors of Pakistan. As part of these efforts, STEDEC invited officials of Highways Training & Research Centre (HRTC) of National Highways Authority (NHA) to visit PCSIR facilities at Peshawar and Lahore in order for HRTC to assess PCSIR facilities and capabilities and how these could benefit NHA.

HRTC delegation, led by its Executive Director, Dr Shafeeq Ahmad visited PCSIR Peshawar on 16th August, 2017 and PCSIR Lahore on August 17, 2017. The delegation was welcomed at Peshawar by Engineer Irfan Ahmed Rabbani, DG PCSIR Peshawar and Syed Raza Abbas Shah, MD STEDEC. At Lahore the delegation was welcomed by Dr. Quratulain Syed, DG PCSIR Lahore and MD STEDEC.



At both locations, the delegation was given briefings on PCSIR's expertise and capabilities as well as shown around the facilities. HRTC officials showed keen interest in various facilities within PCSIR and expressed a desire to enter into some institutional mechanism for cooperation between the two organizations. Executive Director HRTC appreciated STEDEC's efforts in coordinating the visits and hoped the visits would result in development of effective linkages between NHA and PCSIR.

Certificate Training Course at Leather Research Centre, PCSIR

Leather Research Centre (LRC), PCSIR, Karachi arranged a 05 days certificate training course entitled "Basic Training of Leather Science & Technology" at LRC on the request of Midas Pvt. Ltd. from 11th to 15th September, 2017. The executive employees of the company successfully completed the training on basic science & technology of Leather.



Identification of Promising Technologies developed by R&D Organizations for Commercialization by STEDEC

The first meeting of the MoST Committee to evaluate and prioritize promising technologies developed by various R&D organizations of MoST was held on September 23, 2017 at STEDEC head Office, Lahore, under the chairmanship of Additional Secretary MoST. Incharge Commercialization Cell MoST also participated in the meeting. After a short briefing by MD STEDEC, the DG PCSIR Lahore and her team presented their products and technologies in detail. After a detailed discussion and due deliberations, a shortlist of five promising products/technologies was agreed upon. It was further decided that subsequent meetings with remaining R&D organizations would be held shortly.



PCSIR Peshawar Organizes Training Workshop for Female Entrepreneurs at Swat

Food Technology Centre, PCSIR Labs Complex Peshawar organized a 2 Day Workshop for female entrepreneurs on "Food Processing & Preservation" at Charbagh, Swat on 23-24 August 2017.



STEDEC meets with Haripur Chamber of Commerce & Industry

STEDEC has been extensively engaged with private sector entrepreneurs and industrial sectors of Pakistan for effectively leveraging indigenous R&D for the benefit of these sectors. In line with these efforts, MD STEDEC met with Mr. Shiekh Mohammad Ilyas, President, Haripur Chamber of Commerce & Industry (HCCI) on 25th September 2017 to explore linkages between R&D organizations of MoST and industries located around Haripur and Hattar.

MD STEDEC informed the President HCCI regarding STEDEC's mandate to support local industry of Pakistan through joint efforts with MoST R&D organizations. President HCCI welcomed the efforts of STEDEC in providing such platforms where member companies could be enlightened on methods to improve and enhance their quality and productivity. He emphasized that consistent efforts would be required on both ends to achieve desired results. President HCCI further informed that major industrial clusters in the region included, Soap & Chemicals, Steel, Food & Beverages, Medicine, Ghee & Cooking Oil, and Chipboard. He offered to arrange targeted meetings of MoST R&D organizations with different sectors so as to develop effective linkages between them.

Pakistan Ordnance Factories Delegation visits NUST

A delegation from Pakistan Ordnance Factories (POF), Wah visited NUST Center for Innovation and Entrepreneurship on September 26, 2017. The purpose of this meeting was to define a working relationship between NUST and POF Wah for providing opportunities for research and development projects.



PCSIR Peshawar meets with Honey Bee Association of Pakistan



Director General PCSIR Labs Complex Peshawar along with a team of senior officers including Director, Planning & Development and Head of Food Technology Centre visited the office of All Pakistan Honey bee Association and had a meeting with Honey bee keepers, Exporters and Traders on July 06, 2017. PCSIR offered its quality assurance services for the export of honey to the Middle East countries.

STEDEC Organizes a Focus Group Meeting on PCSIR's Laboratory Equipment

In order to improve commercialization of laboratory equipments developed by PCSIR Laboratories Complex Lahore, STEDEC invited stakeholders located at Abqari Market, Lahore for a focus group meeting. Entrepreneurs and dealers involved in marketing and sales of laboratory equipment for scientific, educational and industrial sectors led by General Secretary Abqari Market Association, Mr. Khalid Mehmood Rana visited STEDEC head office on 27th September, 2017.

The Managing Director STEDEC, Syed Raza Abbas Shah welcomed the participants and briefed them regarding

STEDEC's mandate and efforts to act as an interface between industry and R&D organizations of Ministry of Science & Technology. Delegates appreciated the opportunity provided to them and highlighted issues impeding commercialization of locally produced products and deliberated on efforts required to enhance sale of locally produced laboratory equipment.

