

4th International Conference on “Frontiers of Advanced Engineering Materials (FAEM-18)” held at PCSIR Labs. Complex, Lahore

The 4th International Conference on “Frontiers of Advanced Engineering Materials (FAEM-18)” was organized by Pakistan Institute of Technology for Minerals & Advanced Engineering Materials (PITMAEM), Pakistan Council of Scientific

& Industrial Research (PCSIR) Laboratories Complex, Lahore in collaboration with ECO Science Foundation and Pakistan Science Foundation, Islamabad on February 19-20th, 2018. Eminent scientists and engineers participated from all over Pakistan. The

foreign delegates from Denmark, Kyrgyz Republic and Iran also participated in this conference. The Federal Minister for Science & Technology, Mr. Rana Tanveer Hussain, was the Chief Guest of the inaugural session of the conference. *Continued on Page 8.....*



Dr. Shahzad Alam, Chairman PCSIR addressing in FAEM-18.



Honourable Federal Minister for Science & Technology, Mr. Rana Tanveer Hussain and Mrs. Yasmin Masood, Secretary MoST receiving shields in the conference.



Federal Secretary Most, visited PCSIR Labs. Complex Lahore and PSTC Lahore

Honourable Federal Secretary Ministry of Science and Technology, Mrs. Yasmin Masood visited PCSIR Laboratories Complex and Precision Systems Training Centre (PSTC), Lahore on 15th March, 2018. On this occasion Dr. Quratulain Syed, Director General Lahore Laboratories and Dr. Shaista

Jabeen Khan, Director Planning and Development briefed the honourable Secretary regarding progress of the Laboratories especially the Halal Testing Laboratory and Technology Business Incubation Centre (TBIC). During visit to PSTC Lahore Engr. Sadaat Khan, Principal

PSTC briefed about the training facilities provided to the students. The Secretary MoST appreciated the efforts for providing hands on training to the students and distributed medals to the outstanding students of PSTC holding positions in examination of Punjab Technical Training Board Lahore.



Dr. Quratulain Syed, DG, LLC and Dr. Shaista Jabeen Khan, Director P&D welcoming the Federal Secretary (MoST), Mrs. Yasmin Masood at PCSIR Laboratories Complex, Lahore



Federal Secretary (MoST), Mrs. Yasmin Masood is giving medal to the position holder student of PSTC-Lahore

International Conference on “Innovation and Commercialization in Biotechnology” Organized by PCSIR Laboratories Complex, Lahore in Collaboration with Ministry of Science and Technology at PCSIR Labs. Complex, Lahore

International conference on “Innovation and Commercialization in Biotechnology” was organized by PCSIR Laboratories Complex, Lahore in collaboration with Ministry of Science and Technology on 25th -26th April, 2018 at PCSIR Labs. Complex Lahore. Dr. M. Ashraf Tahir, Director General, Punjab

Forensic Science Agency was the Chief Guest. The renowned Scientists from International and National Research Institutes / Universities participated in the conference. International delegates from Malaysia, Turkey, Brazil, and China participated in the conference.



Group Photo of Participants and Honourable Guest of the conference with Dr. Shahzad Alam, Chairman PCSIR.

PCSIR Labs. Complex Peshawar signed Memorandum of Understanding with Serena Hotels Pakistan

PCSIR Laboratories Complex, Peshawar has signed memorandum of understanding (MoU) with M/s Serena Hotels Pakistan to execute a honey project under CSR Programme – namely “KARIGHAR”. Dr. Shahzad Alam, Chairman PCSIR and Mr. Aziz Boolani, Chief Executive Officer, Serena Hotels put their signatures on the MoU, the signing ceremony was attended by the senior management of both the entities. Under the scope of MoU, PCSIR and Serena Hotels will collaborate in improving the skills of farmers of Gilgit Baltistan (GB) region in honey bee farming

by providing professional trainings, processing and quality assurance facilities and also facilitate them for selling their product, leading to the sustainable and improved livelihood. While addressing the ceremony, Mr. Aziz Boolani thanked PCSIR for joining hands with Serena Hotels for this noble cause. Chairman PCSIR Dr. Shahzad Alam also thanked the Serena management for providing an opportunity to PCSIR to contribute their due share in the socio-economic uplift of GB community. Both the organizations assured their best cooperation to start new projects of similar nature.



Chairman PCSIR Dr. Shahzad Alam and CEO, Serena Hotels Mr. Aziz Boolani signing the memorandum of understanding.



Chairman PCSIR Dr. Shahzad Alam and CEO, Serena Hotels Mr. Aziz Boolani exchanging the MoU documents.

Additional Secretary MoST visited Lahore Laboratories

Honourable Additional Secretary MoST, Mr. Qaiser Majeed Malik visited PCSIR Laboratories Complex, Lahore on June 6, 2018 to monitor the activities for the General Election-2018. He visited Mineral Processing Research Centre (MPRC), regarding production of standardized ink pads. Dr. Quratulain Syed, Director General, PCSIR Laboratories Complex, Lahore, Dr. Shaista Jabeen Khan, Director Planning & Development and Engr. Adnan Akram CE/Head MPRC, were present at the occasion. The Additional Secretary MoST observed the production, processing and quality checking mechanism adapted to standardize the ink pads.

Federal Minister for S&T reviews R&D activities at Lahore Laboratories

A meeting with the Honourable Federal Minister for Science & Technology, Mr. Rana Tanveer Hussain was held on January 29, 2018 regarding the progress review of research and development activities of PCSIR Laboratories Complex, Lahore. Dr. Quratulain Syed, Director General, PCSIR Laboratories Complex, Lahore, Dr. Shaista Jabeen Khan, Director Planning and Development, and Heads of all the Centres were present in the meeting. The Director General, Dr. Quratulain, briefed about the R&D activities and need based projects being carried out at PCSIR Labs. Lahore. The Federal Minister MoST, Mr. Rana Tanveer Hussain appreciated the progress of Lahore Laboratories.



Federal Minister for Science & Technology Mr. Rana Tanveer Hussain chairs the progress review meeting at PCSIR Laboratories Lahore.

PCSIR Peshawar Organized a Training Programme on Techniques in Value Addition of Fruits & Vegetables

PCSIR Laboratories Complex, Peshawar organized a training programme on "Techniques in Value Addition of Fruits & Vegetables" on May 3-5, 2018 at Booni, Chitral. This activity was initiated under PCSIR's "Community Uplift Programme" in collaboration with Agha Khan Rural Support Programme. Chairman PCSIR, Dr. Shahzad Alam, was the Chief Guest in the "Certificate Distribution Ceremony" who awarded the certificates to the trainees. Mr. Farid Ullah Khan, Member Science-PCSIR, Engr. Irfan Ahmad Rabbani, Director General, PCSIR Laboratories Complex, Peshawar and the senior management of PCSIR Head Office and Peshawar Laboratories were also present in the event. The Chairman PCSIR also distributed 50 Water Filtration Kits and

a Solar Dehydration Plant to the local community of the Booni region.



Dr. Shahzad Alam, Chairman PCSIR addressing the participants.

Delegation from Nestle Pakistan visited Lahore Laboratories

Mr. Amer Rehan, Head Technical and Dr. Farhat Jamil, Manager Technical, Nestle Pakistan (Pvt.) Limited visited PCSIR Laboratories Complex Lahore on April 30, 2018 to hold technical discussion for fabrication and characterization of different engineering tools. Chairman PCSIR Dr. Shahzad Alam, Director General, Lahore

Laboratories Dr. Quratulain Syed and Director Planning and Development Dr. Shaista Jabeen had a meeting and provided a detailed introduction of PCSIR Labs. Complex, Lahore. Mr. Amer Rehan from Nestle Pakistan expressed that fabrication of parts in Lahore Laboratories would be a great service to Nestle.



A group photo of delegation of Nestle Pakistan (Pvt.) Ltd. with Dr. Shahzad Alam, Chairman PCSIR and Dr. Quratul-ain-Syed, Director General PCSIR Labs. Complex, Lahore.

Delegation from YMC visited PCSIR Pak Swiss Training Centre Karachi

The importance of the PSTC students and their role in the development of industries is recognized in all over Pakistan. For collaboration with PCSIR Pak Swiss Training Centre Karachi and to promote training activities at PSTC a high level team of Deputy General Manager, HR Administration

and CSR team of M/s Yamaha Motor Company visited PSTC Karachi on January 28, 2018. Delegates were briefed about the practical training methods and infrastructure of PSTC. They showed their willingness to cooperate with PSTC to strengthen its training activities.

Chairman PCSIR visited Hyderabad Laboratories

Dr. Shahzad Alam, Chairman PCSIR along with Mr. Faridullah Khan, Member Science PCSIR and Mr. Muhammad Aleem Ahmed, Director General PCSIR Laboratories Complex, Karachi visited PCSIR Hyderabad laboratories on June 19, 2018. During the meeting with Engr. Dr. Riazuddin Abro, Director Hyderabad Laboratories and other officers, Chairman PCSIR appreciated the activities of Hyderabad Laboratories.

One-day training of ISO-17025 provided in PCSIR Leather Research Centre, Karachi

An exclusive one-day training workshop had been conducted in Leather Research Centre, Karachi on May 15, 2018. This training was related to awareness and implementation of ISO 17025 & Internal audit and was provided on the request of AIC, ICCBS and University of Karachi. Dr. Farman Ahmed, QMR, Mrs. Tahira Ayaz, DQMR and Mr. Raja Kumar Dewani, DTM delivered lectures in the workshop.

PCSIR Lahore participated in Pakistan Coating Show 2018 and Science Mela

The 4th Pakistan Coating Show 2018 was organized by Bin Rasheed Group at Expo Centre, Lahore. This coating show had two sessions, knowledge sharing and exhibition for the industry and academia. PCSIR Laboratories Complex Lahore exhibited stall in this coating show and Engr. Ali Imran delivered talk on the topic "Modern Era and Role of Thermal Coatings".

PCSIR Labs. Complex, Lahore also participated in the "Lahore Science Mela 2018" organized at Ali Institute of Education, Lahore on January 27-28, 2018. PCSIR stall was set in this exhibition to display the R&D products.



Stall of PCSIR Labs. Complex, Lahore in Lahore Science Mela, 2018.

Visit of GCCI Delegation to PCSIR Labs. Complex Lahore

A delegate from Gujranwala Chamber of Commerce and Industry (GCCI) visited PCSIR Laboratories complex, Lahore on March 28, 2018. The delegation was headed by their president Mr. Amer Hasan. The Director General, PCSIR Laboratories

Complex Lahore, Dr. Quratulain Syed along with senior management team welcomed the delegation. Dr. Quratulain Syed gave a brief presentation on the state of the art facilities available at these Laboratories. The president of GCCI informed that

environmental problems are the major issues for the Gujranwala industrial sector mainly metal, textile & cable industries. GCCI representatives made a detailed visit to the different centres of Lahore Laboratories and showed interest in projects of mutual interest.



GCCI delegation visiting TBI Centre of Lahore Laboratories.



Dr. Quratulain Syed, DG Lahore Labs. presenting shield to the President, Gujranwala Chamber of Commerce and Industry (GCCI)

PCSIR Labs. Complex Lahore officials meet with delegation of Rice Export Association Pakistan

A meeting of Chairman Ch. Samee Ullah Naeem and the delegation of Rice Export Association Pakistan (REAP) with Dr. Sakhawat Ali, Member Science-PCSIR was held on January 05, 2018 in the committee room of PCSIR Laboratories Complex, Lahore to discuss available testing facilities and subsidy on certification especially on GMP certification at Lahore Laboratories. All senior management including Dr. Quratulain Syed, Director General Lahore Laboratories, Dr. Shaista Jabeen Khan, Director Planning and Development, Dr. Rauf Ahmad Khan, Head Centre for Environmental Protection Studies, Dr. Ijaz Ahmad, Head Food & Biotechnological Research Centre, Dr. M. Qayyum Athar, Head Applied Chemistry Research Centre and Mr. Ehsan ul Haq, Senior Scientific Officer were present in the meeting.



A meeting was held with the Chairman Ch. Samee ullah Naeem alongwith delegation from Rice Export Association Pakistan (REAP) with Dr. Sakhawat Ali, Member Science at PCSIR Labs. Complex, Lahore.

One Day Seminar on “Halal and Safe Food: Challenges and Responsibilities” held at PCSIR Labs. Complex, Karachi

A one-day seminar on “Halal and Safe Food: Challenges and Responsibilities” was held in PCSIR Laboratories Complex, Karachi on January 29, 2018. The seminar comprised of Inaugural session and two technical sessions. The Chairman PCSIR, Dr. Shahzad Alam, graced the occasion as the Chief Guest. Speakers from various organizations, including SANHA Pakistan, FPCCI Karachi and Dadabhoy Institute of

Higher Education presented their speech on topics to cover the different aspects of Halal and Safe Food and highlighted the importance of Halal Trade in the economic uplift of the country. The participants also interacted with the speakers during the question answer session. Commemorative shields were presented to the guest speakers.

Certificate and Tool Distribution Ceremony held in PSTC Quetta

A ceremony for the distribution of certificates and tools among the students of Phase IV, Batch-I, under Prime Minister Youth Skill Development Programme was held in PCSIR Precision Systems Training Centre, Quetta in June 2018. Deputy Director National Vocational Technical Training Commission (NAVTTTC) Mr. Yasin Jaffar was the Chief Guest of the Occasion.

Delegation of Pakistan Aeronautical Complex, Kamra visited Lahore Laboratories

A group of officers/officials from Pakistan Aeronautical Complex (PAC) Kamra visited PCSIR, Laboratories Complex, Lahore on March 09, 2018. A meeting was arranged in which officers and engineers of PCSIR and officials of PAC participated. The purpose of the meeting was to discuss

different joint venture projects to be initiated between Pakistan Institute of Technology for Minerals and Advanced Engineering Materials (PITMAEM), PCSIR and PAC, Kamra. Engr. Muhammad Irfan, Head PITMAEM delivered the detailed presentation on the existing facilities and

ongoing Joint venture projects with strategic organizations. After meeting they visited PITMAEM and appreciated the existing facilities. They showed interest in joint venture developments programmes of mutual interest.



Engr. Muhammad Irfan, Head PITMAEM briefing about the existing facilities of Lahore Labs. to the delegation of PAC, Kamra.



Mr. Ahmad Aizaz (Air Commodore) Dean AUPAC, Kamra visited PITMAEM, PCSIR Labs Complex, Lahore to discuss the development of indigenous material for strategic purposes. He also visited the existing facilities provided to local industry for testing and development of materials.

Speaker Balochistan Assembly appreciated PCSIR Labs. Quetta

The Speaker of Balochistan Assembly Miss Rahila Hameed Khan Durrani appreciated the research and analysis activities of PCSIR Laboratories, Quetta during her visit to the display stall of PCSIR Laboratories, Quetta in 3rd invention to innovation summit held

at Expo centre, University of Balochistan on April 24-25, 2018.

Speaker of Balochistan Assembly showed interest in mushroom cultivation project and solar dehydrator designed by Quetta

Laboratories. She appreciated the healthy milk and safe water campaign of PCSIR and said that such initiatives of Ministry of Science and Technology (MoST) and PCSIR will help for welfare and betterment of the marginalized societies of Balochistan.

7th International Halal Conference and Exhibition



Dr. Quratul-ain- Syed, DG PCSIR Labs. Complex Lahore, Dr. Shaista Jabeen, Director P&D and other scientists participated in the 7th International Halal conference and exhibition held at Lahore from April 17-18, 2018. Various stalls were set by PCSIR Labs. Complex, Lahore in the conference.

A Trainee of PSTC Quetta got 1st Position in Provincial Skill Competition organized by National Vocational & Technical Training Commission (NAVTTTC) at Quetta



Miss Rahila Hameed Durrani presenting award to Malik Wadhood, a trainee of PSTC Quetta winner of Provincial Skill Competition 2018 of NAVTTTC.

MoU signed between PCSIR Leather Research Centre, Karachi and Pakistan Ostrich Company for leather processing

A memorandum of understanding was signed between PCSIR Leather Research Centre, Karachi and Pakistan Ostrich Company for the “processing of Ostrich Skins into Exotic Ostrich Leather”. This technology has been developed by PCSIR

Leather Research Centre and patented in Pakistan. MoU was signed by Mr. Raja Tahir, CEO of Pakistan Ostrich Company and Director PCSIR Leather Research Centre Dr. Hafiz Rub Nawaz at PCSIR Leather Research Centre, Karachi.

Director General PCSIR Labs. Complex Lahore visited LCCI and KIAA

Director General, PCSIR Laboratories Complex Lahore Dr. Quratulain Syed visited Lahore Chamber of Commerce & Industry (LCCI) along with the Director Planning and Development Dr. Shaista Jabeen Khan, Head of Mineral Processing Research Centre Engr. Adnan Akram, Quality Manager Mr. Ehsan ul Haq and Heads of all research centres on February 27, 2018. Director General briefed about the activities and services offered by PCSIR to the Executive Committee Members of LCCI. She also highlighted the potential products and technologies developed for different industrial sectors. The Vice President and senior members of Executive Committee appreciated the services offered by PCSIR.

Dr. Quratulain Syed, Director General, Lahore Labs. also visited Kotlakhpat Industrial Estate Association (KIEA), Lahore along with Quality Manager Mr. Ehsan-ul-Haq to have a meeting with the Chairman and the senior members of KIEA on April 3, 2018. In the meeting Director General highlighted the services of PCSIR–Lahore for the industries. She also briefed about the Certification Incentive Programme (CIP) for the industry. The Chairman and members appreciated the services of PCSIR Lahore and the CIP project. The Director General LLC at the end invited the Chairman and members of KIEA to visit the Lahore Laboratories to explore the business opportunities through new technologies and processes.



World Environment Day celebrated at PCSIR Peshawar

PCSIR Laboratories Complex, Peshawar organized “World Environment Day, Connecting People to the Nature” on June 05, 2018 at PCSIR Peshawar. More than 200 students of primary level from various schools, teachers and researchers took part in the plantation activities during the programme.



Director General, PCSIR Labs. Complex, Peshawar addressing on the Occasion.

Training arranged on latest method adoption for Bacteria Detection in Water through IDEXX Enzyme at PCSIR Labs. Complex, Karachi

In order to upgrade the testing facility, Microbiology Section of Food and Marine Resources Research Centre (FMRRRC), PCSIR Laboratories Complex, Karachi planned to adopt the latest method for the detection of Coliforms and *E. coli* in water through IDEXX enzyme based detection kit. A two-day training on IDEXX Quant-Tray Sealer, enzyme-based kit for detection of Coliforms and *E. coli* in water samples was arranged in collaboration with Sindh Medical Stores (SMS) in Microbiology Section of FMRRRC on March 15-16, 2018.

Mr. Zaheer Alam gave a presentation on the operation and working of the IDEXX detection kit and Sealer. Microbiology Section has negotiated with SMS and acquired IDEXX Quanti-tray sealer free of cost on contractual basis. All the Microbiologists of FMRRRC and scientists from other centres attended the training sessions.

PCSIR Labs. Hyderabad participated in Water Expo at Mirpurkhas

First water expo was organized by RDF (NGO) at Mirpurkhas. PCSIR Laboratories Hyderabad participated in this water expo and displayed solar dehydration and solar desalination units, solar cooker and water testing equipments. Member of National Assembly Mir Munawar Ali Khan Talpur was the Chief Guest of the event. Large number of participants visited the PCSIR's stall. Engr. B. K. Ahuja, Principal Engineer and Mr. Habibul Hassan Ghouri, Experimental Officer briefed the participants about functions and facilities available in PCSIR Laboratories Hyderabad.

Development of Process for Purification of Crude Fish Oil by PCSIR Leather Research Centre Karachi

A process has been developed in PCSIR Leather Research Centre, Karachi for the purification of crude fish oil. In this process, pure fish oil is prepared from crude commercial fish oil to cut down the amount of free fatty acid in it. An odorless product with low free fatty acid content has been prepared.

PCSIR Labs. Complex, Peshawar participated in FATA-DA Exhibition

FATA Development Authority organized "Skill Exhibition" on May 4, 2018 at Pearl Continental Hotel, Peshawar. Dimension Stone Centre of PCSIR Laboratories Complex Peshawar participated in this exhibition and arranged a stall of marble products, Mosaic Stone work, Panaflexes



Governor KPK Engr. Iqbal Zafar Jagra visiting the PCSIR Stall and received information about the PCSIR products.

and Brochures etc. The Governor Khyber Pakhtunkhwa Engr. Iqbal Zafar Jagra was the Chief Guest of the occasion. He visited PCSIR stall and showed keen interest in its products and desired that youth of FATA must be trained in PCSIR.



Herbal products developed from medicinal plants of Balochistan

The province of Balochistan is gifted with the wealth of medicinal plants. A large number of these plants grow wild in diversified climatic conditions of the province. PCSIR laboratories Quetta is working on the development of products from three medicinal plants, *Nepeta praetervisa* Boiss, *Polycharia* and *Scriphedum quettensis*.

N. praetervisa Boiss is a widely used medicinal plant in food and pharmaceutical industries. Its flowers, leaves and oil are used for the treatment of bedwetting, diarrhea, stomach ache, arthritis, colic, sore throat, cough (including whooping cough) and bronchitis.

S. quettensis is a dominant shrub available in Hazarganji, Balochistan. People take this herb for cough, stomach and intestinal upset, common cold, measles, diabetes, yellowed skin (jaundice), anxiety, irregular heartbeat, and muscle weakness. It is also used for parasitic infections such as roundworms, pinworms, tapeworms, hookworms, and liver fluke.

Polycharia seeds, flowers and leaves are medicinally important. Calendulin, salicylic acid, oleanic acid, faradiol and arvidiol chemicals are obtained from *Polycharia* flowers and are locally used in making an ointment for skin. Value added products are formulated i.e. cough syrup, mouthwash, herbal tea, lozenges and balm from these plants.

PCSIR Laboratories Skardu signed MoU for providing fruit processing training

PCSIR Laboratories Skardu has signed a memorandum of understanding with Director Agriculture Gilgit region to provide two-days fruit handling, processing, preservation and value addition training at District Diamer and District Hunza at eight different locations for eight groups that consist of 30 participants in each group and to train total 240 farmers from these two districts. All training expenses i.e. lunch pick and drop, processing, stationary, training material and training execution will be provided by Skardu Laboratories through its ALP funded project. The agriculture department will select 30 progressive farmers for each group training and space will be provided for training at their nurseries.

PCSIR Scientists visited China under South Asian Talents China's S&T and Innovation Trip

The scientists of PCSIR visited China to participate in "South Asian Talents China's Science, Technology and Innovation Trip" from June 10-17, 2018, fully sponsored by Ministry of Science and Technology of the People's Republic of China. The objectives of the visit were to promote regional science

technology and innovation (STI) cooperation, explore effective mechanism for science and technology (S&T) cooperation, provide the platform to young scientists to present themselves, exchange ideas and create opportunities for promoting scientific and cultural exchange.



Pakistani delegation with Chinese Scientists



PCSIR Institute of Industrial Electronics Engineering (IIEE) Student received Excellence Certificate in IT Competition

IIEE Student Mr. Sheryar Ahmed received Certificate of Excellence in "Information Technology Competition", held on April 21,

2018 organized by Academy of Excellence Karachi.



Board of Management meetings were held in different units of PCSIR

The Board of Management meeting for the year of 2018 was held in PCSIR Laboratories Complex, Lahore on February 28, 2018. Dr. Quratulain Syed, Director General, Lahore Laboratories was the Chairperson of the meeting. Progress made during the year was highly appreciated by all the council members especially developing key performance indicators and strengthening linkage with industry and academia.

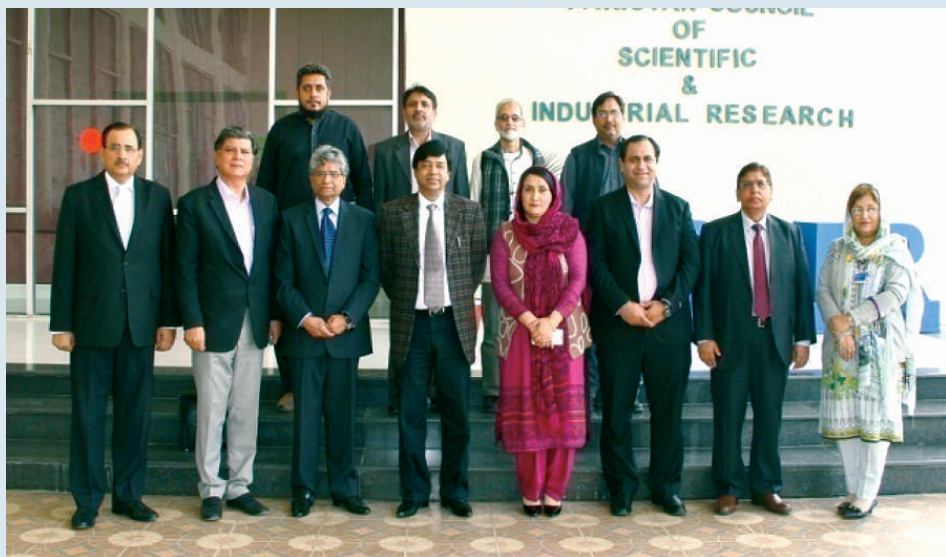
The 8th meeting of Board of Management was held in PCSIR Leather Research Centre, Karachi on April 24, 2018. The meeting was presided over by the Director, LRC, Dr. Hafiz Rub Nawaz.

The Director, Leather Research Centre presented a detailed presentation to the members regarding LRC activities and subsequent progress since the 7th Board of Management meeting. At the end, he delivered a vote of thanks to all the members of Board of Management.

PCSIR Laboratories Hyderabad arranged a meeting of the Board of Management on

March 28, 2018 at Hyderabad. In this meeting representatives of Industries and officials of PCSIR attended the meeting. The Board appreciated the efforts of Hyderabad Laboratories and recommended to establish technical training centre at Hyderabad.

5th Board of Management meeting was held in PCSIR Fuel Research Centre Karachi on March 8, 2018. Director FRC Mr. Gulzar Hussain Jhatial presided over the meeting. Members from universities/ academia attended the meeting.



Members of Board of Management with the Director General Lahore Laboratories Dr. Quratulain-Syed.

Two Seminars held in PCSIR Institute of Industrial Electronics Engineering (IIEE)

A seminar on "Students Awareness & Internship Programme and Product Development Cycle" was held in PCSIR Institute of Industrial Electronics Engineering Karachi on January 3, 2018. Mr. Abdul Khaliq Teepu, Manager Marketing & Application (Electronics), Exponent Technological Solutions was the guest speaker of the event. Faculty members and undergraduates attended the seminar.

Second seminar on "Intellectual Property

Patent, Trade Mark" was held on April 25, 2018. The objectives of the seminar was to extend awareness among the academia, students and business community regarding the importance of intellectual property, especially IP as tool for economic growth and wealth creation. Syed Nasrullah, Deputy Director IPO-Pakistan, Trade Mark Registry, Karachi was the guest speaker. Faculty members, administration staff and undergraduates of IIEE attended the seminar.

Ostrich skin processed into exotic leather at PCSIR Leather Research Centre Karachi

The scientists and technologists of PCSIR Leather Research Centre Karachi are working on processing of raw ostrich skin into exotic ostrich leather and R&D work is done for further improvement of leather quality. M/s. Pakistan Ostrich Company has sent 50 raw ostrich skins for processing into different kinds of article leather. The ostrich skins were processed into exotic finished leather in five different colors using technology developed by LRC. These attractive colored exotic leather will be used for production of very costly leather goods for local and international market.

Leather Research Centre Karachi signed MoU with FUUAST for Joint Research Programme

A memorandum of understanding (MoU) was signed between Federal Urdu University of Arts, Science and Technology and PCSIR, Leather Research Centre, Karachi. This MoU is focused on bilateral research on various topics like environmental issues, application of enzyme in leather technology in leather processing and replacement of toxic chemicals in tanning and finishing processes. Both the partners agreed to train the researchers in various fields.

PCSIR Skardu provided fruit processing trainings

Fruit processing trainings funded under Agriculture Linkage Programme (ALP) Pakistan Agricultural Research Council (PARC), Islamabad were provided to 9 groups of farmers in 3 districts, one group consisted of 30 participants at Skardu, four groups consisted of 120 participants in District Diamer and four groups in District Hunza consisted of 120 participants. Training was given to total 270 participants in collaboration with Agriculture Department and Women Organizations of the area.

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The eminent guests in the conference included Mrs. Yasmin Masood (Secretary, Ministry of Science and Technology), Dr. Manzoor Hussain Soomro (President, Economic Cooperation Organization Science Foundation), Dr. Shahzad Alam (Chairman, PCSIR) and Vice Chancellors of the Universities and delegates from different Industries.

A technical session was also held by the scientists/ engineers to share their current research activities and discussed different industrial need based issues and their possible solutions.

Farewell & Welcome Event in IIEE

Annual farewell and welcome event 2018 was held in PCSIR institute of industrial Electronics Engineering Karachi on April 14, 2018. Students registry & counseling branch organized the event under supervision of Engr. Anjum Darakshan (OIC 2nd year), Engr. Agha Shakir (Chief Instructor) and Mr. Fasih Uddin Khan (Students Registry & Counseling Branch/ Students Affair).

Director General PCSIR Laboratories Complex, Karachi Mr. Muhammad Aleem Ahmed was the Chief Guest of the occasion. It was a great moment for IIEE that the 25th Batch of students passed out.



The Principal, Engr. Ashab Mirza addressing to the guests and undergraduates of IIEE.



Director General KLC PCSIR warmly welcomed at IIEE by Engr. Ashab Mirza, the Principal and senior staff of IIEE.

One-day seminar for awareness of ISO-17025 accreditation organized by PCSIR Fuel Research Centre Karachi

One-day training session cum seminar on "General Awareness of Lab. Management & Guidelines for Technical Parameters for ISO-17025 Accreditation" was arranged on February 13, 2018 at conference hall FRC to refresh and update the capabilities of FRC scientists. Mr. Zain ul Ibad, Senior Scientific Officer, Quality Manager of PCSIR Laboratories Complex, Karachi and Ms. Sarwat Jahan Mahboob, Senior Scientific Officer, of PCSIR Leather Research Centre, Karachi were invited as guest speakers to highlight the topic.

Mr. Zain-ul-Ibad, gave detailed presentation on general & technical requirements for accreditation and briefly described the documentation procedures, quality control,

method validations, participation in PT, inter lab comparisons and other various technical parameters required for the ISO-17025 accreditation.

Ms. Sarwat Jahan Mahboob, also gave a detailed presentation on technical requirements of ISO-17025, and briefly talked about the calculations of standard deviations, measurement of uncertainty, control charts, method validation and other technical aspects of the standard.

The seminar concluded after series of lectures, a sound discussion and a question-answer session. Director FRC thanked all the guests and participants for attending this wonderful knowledge sharing event.

Industrialists appreciate PCSIR Pak Swiss Training Centre, Karachi for providing skilled manpower to industries

To upgrade the welding industry of Pakistan to the international standards, a seminar and exhibition were conducted at PCSIR Pak Swiss Training Centre, Karachi on February 28, 2018. The seminar was hosted by PSTC, Karachi and organized in collaboration with PSTC old boys association with the assistance of M/s. Ashraf Group of Companies (*Ashraf Welding Systems*), the business partner of panasonic Japan for Pakistan.

While speaking at the occasion, Tsuruta Tetsuya San, the Assistant Chief of South Asia Sales Section and Hideaki Abe San, General Manager - Global Sales and Marketing described the importance of welding system through Robotics. He also appreciated the way of teaching and training being imparted at PSTC, Karachi.

The representatives from leading industries including Mr. Ashraf Sheikh, Sr. Vice Chairman, PAAPAM, Mr. Ghulam Farooq, Functional Head SCM, Pak Suzuki Motors and Mr. Hassan Mohiuddin, Director Ashraf Group of Companies shared their views on the occasion. They all appreciated the role of PSTC for providing highly skilled manpower for the industries and organizations of Pakistan. They showed their willingness to extend full support and cooperation for the betterment and uplifting of PSTC and also to provide the latest and advanced technologies.

Earlier, Engr. Muhammad Mohsin Ali, Director PCSIR Pak Swiss Training Centre, Karachi welcomed the guests and presented

the brief introduction of PSTC, Karachi. Dr. Muhammad Nawaz Khokhar, Member Technology, PCSIR opined that such type of seminars from the leading industries may also be organized in other PSTCs, Lahore, Quetta and Peshawar.



Dr. Muhammad Nawaz Khokhar, Member Technology, PCSIR receiving the Memento Shield on the occasion of Seminar on Welding through Robotics arranged by M/s. Panasonic, Japan and M/s. Ashraf Welding.

Establishment of CFC at SIMAP Sialkot

PCSIR has established a common facility centre (CFC) at SIMAP Sialkot. The objective of the centre is to provide technical services/ testing to the stakeholders. More than, 850 analytical tests have been conducted so far.

Jalsa-e-Seerat-un Nabi in PSTC Karachi

Jalsa-e-Eid Milad un Nabi (S.A.W.W.) was held in PCSIR Pak Swiss Training Centre, Karachi on January 18, 2018. Dr. Khaula Shireen, Director General, PCSIR Laboratories Complex, Karachi was the Chief Guest of the occasion. Prominent Naat Khuwahan and Speaker, Professor of Karachi University were also invited in this event. Students of PSTC performed in the competition and the prizes/shields were distributed among the top three positions of each category.



Dr. Khaula Shireen, Director General, PCSIR Labs. Complex, Karachi during the Naat Session

Farewell Parties in PCSIR Pak Swiss Training Centre (PSTC) Karachi

A farewell party was arranged in PCSIR Pak Swiss Training Centre Karachi on February 28, 2018 on the retirement of Director Engr. Muhammad Mohsin Ali. Dr. Muhammad Nawaz Khokar, Member Technology, PCSIR was the Chief Guest on this occasion. The chief guest and other senior staff members highlighted the services of Director PSTC.

Another farewell party was held in PSTC Karachi on April 12, 2018 on the retirement of Mr. Shamshad Ahmed, Principal, PSTC, Karachi. On this occasion, the Secretary, PCSIR Mr. Abdul Haleem Asghar was the Chief Guest. The Secretary PCSIR, and the senior staff members described their feelings

about the services of Mr. Shamshad Ahmed, Principal, PSTC Karachi.



Academic Activities at CM&FT Centre Daska

Students achieve top positions in PBTE

Three students of PCSIR-CM&FT Centre, Daska got distinguished positions (1st, 2nd & 3rd) in Punjab Board of Technical Education.

Award of Gold Medal by Punjab Board of Technical Education, Lahore

PCSIR CM&FT student was awarded Gold Plated Gilding Medal, cash prize and a merit certificate by Punjab Board of Technical Education, Lahore on May 30, 2018.

Award of scholarships to students of PCSIR CM&FT, Daska by PBTE, Lahore

Six students of Diploma of Associate Engineering (DAE) 1st & 2nd year CM&FT Centre, Daska have achieved scholarships from Punjab Board of Technical Education (PBTE), Lahore.

Award of Laptops to students of CM&FT Centre, Daska

11 laptops have been awarded to DAE students of CM&FT Centre, Daska by Higher Education Commission (HEC) under Prime Minister Laptop Scheme 2018.

Award of Merit Certificate to students of CM&FT Centre, Daska by PBTE, Lahore

Three students of DAE, 3rd year CM&FT Centre, Daska have achieved merit certificates from Punjab Board of Technical Education (PBTE), Lahore.

PCSIR-CM&FT Centre, Daska arranged Free Technical Training Courses in Collaboration with PSDF

PCSIR-CM&FT Centre, Daska in collaboration with Punjab Skills Development Fund (PSDF) is imparting free technical training to students in 04 short-term trades.

PCSIR Institute of Industrial Electronics Engineering Karachi (IIEE) officials participated in Huawei Education Seminar

Faculty members of PCSIR Institute of Industrial Electronics Engineering (IIEE), Karachi participated in a seminar "Huawei Education Summit 2018" organized by Huawei Technologies in Karachi on May 14, 2018.

The speakers discussed the global trends in education, importance of information & Communication Technology (ICT) as a source of knowledge and the road map to improve the efficiency of education administration according to the local environmental scenario. They shared their success stories in education sectors across the region and around the globe. They also discussed how transformation can be brought in education using ICT technology. It was an exciting event with a lot of knowledge sharing.

Leather Research Centre participated in Pakistan Mega Leather Show 2018

Mr. Farrukh Nazir, Principal Scientific Officer and Mr. Shakeel Ahmed, Senior Technician of PCSIR Leather Research Centre (LRC), Karachi participated in 4th Pakistan Mega Leather Show 2018 organized by PTA in Expo Centre Lahore held from January 27-29, 2018.

In this event a number of leather articles developed at Leather Research Centre, Karachi were displayed such as wallets, key chains, shoes, sheet from chicken paw leather, ostrich leather, polka dot effect leather, fish skin leather, stomach leather, chicken paw pieces, fur leather, fatliqours, syntan and resins.

All the visitors having relevant profession appreciated the research products as well as testing and training facilities available at PCSIR Leather Research Centre (LRC), Karachi.

Pak Suzuki Motors Co. gifted furniture to PSTC Karachi Hostel

100 wooden tables were gifted to PCSIR Pak Swiss Training Centre, Karachi hostel by M/s. Pak Suzuki Motors Company to facilitate the students of the hostel.

Culture of Microalgae, *Spirulina* for Nutraceutical and Aquaculture Products: the study conducted first time in Pakistan

A need based R&D project entitled “Culture of Microalgae *Spirulina* for Nutraceutical and Aquaculture products” has been completed recently in Food and Marine Resources Research Centre, PCSIR Laboratories Complex Karachi.

This project was designed to explore the indigenous species of *Spirulina*, culture, biomass production, and to analyze its biochemical efficiency, and to evaluate test for its food safety. The study on *Spirulina* is done first time in Pakistan. If this technology

promote and develops at rural scale by providing training and assistance to the local people, and the quality products (sachet, tablets and capsules) supplied to the customers, it will be beneficial for the country and for the people.



Products and byproducts prepared from *Spirulina* species at the Microalgae Culture Laboratory, PCSIR Labs. Karachi



Culture of *Spirulina* species in the Raceway Pond (RWP) at Green House, PCSIR Labs Complex. Karachi.

Officials of Coal Companies visited PCSIR Fuel Research Centre Karachi

PCSIR Fuel Research Centre Karachi has arranged meetings with the officials of coal companies to discuss possibilities of joint working in field of coal research and development.

Mr. Nauman Sarfaraz, General Manager (Technical & Operations) and Mr. Farhan Hameed, Manager Planning, Sindh Lakhra Coal Mining Coal Company (SLCMCC)

visited PCSIR Fuel Research Centre on January 25, 2018. The delegates witnessed the combustion performance and emission analysis of the hybrid fuel developed by FRC.

Delegates from SLCMCC also wants to sign a memorandum of understanding with PCSIR-FRC to enhance mutual collaboration in development of possible by products of

Lakhra coal on commercial scale.

Mr. Zhoci Xia representative from Power China Resources Limited and Dr. Nicholas Crouch from Brookes Bell Shanghai Company also visited FRC and met with the Director Mr. Gulzar Hussain Jhatial and researchers of FRC. Mr. Nicholas appreciated the testing and analysis facilities available at FRC.



Director and researchers of FRC with the officials of Power China Resources Ltd. during their visit at FRC.



Director PCSIR Leather Research Centre, Karachi Dr. Hafiz Rub Nawaz presiding over the Board of Management (BoM) meeting.



Deputy Director Industries, Commerce & Labor Mr. Shahid Ali addressing the inaugural session of fruit processing training.

PCSIR Labs. Peshawar and UoH to work on joint projects

The scientists of PCSIR Laboratories Complex, Peshawar visited University of Haripur (UoH) on March 20, 2018 to discuss the collaborating programme start between the Peshawar Laboratories and UoH with the officials of the University. The important issues discussed were about the

development of linkages with University of Haripur for the commercialization of products developed by PCSIR Laboratories Complex, Peshawar, support the students under HEC programme, initiate joint research projects and provision of training on high tech. equipments to the faculty staff

of UoH. In this regard, Dr. Javaid Ali, Senior Scientific Officer and Mr. Ghulam Mohammad Paracha, Scientific Officer attended the meeting with the Vice Chancellor and faculty members of UoH on behalf of FTC.

Study of Photo-catalysts effect on the efficiency of Water Desalination Unit

A need based R&D project "To study the Effect of Photo-Catalysts on the Efficiency of Water Desalination by Solar Energy" is underway at PCSIR Hyderabad

Laboratories. The main objective of this project is to enhance the efficiency of Solar Desalination unit by using Photo-Catalysts. In this regard fabrication work at two

numbers Desalination Stills with Photo-Catalyst has been completed. Further experimental work regarding their efficiency has been started.



Solar Desalination Unit with Photo Catalysts (TiO₂) as Heat Absorber

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