PakAtom

Newsletter of the Pakistan Atomic Energy Commission

February - March 2017

Chairman PAEC Inaugurates Two-day Seminar at AEMC



Chairman PAEC, Member Fuel, PAEC, DG Mining Projects, AEMC and DG exploration, AEMC addressing to the audience

Atomic Energy Minerals Centre, Lahore organized a two-day seminar on "Improving Mining Practices for Exploitation of Uranium Reserves and Role of Exploration in its Support" from March 27-28, 2017. The main objective of the seminar was to prepare the scientists and engineers of the mineral sector for upcoming challenges of nuclear raw materials requirements in perspective of PAEC Vision 2050.

The seminar was attended by 75 participants from various establishments of the Commission.

Mr. Muhammad Naeem (HI, SI) graced the occasion as chief guest on the opening day. In his address, the chairman called upon the young scientists and engineers to enhance their expertise and techniques through innovative skills and knowledge-sharing. He said that senior scientists should transfer their expertise, skills and knowledge to their juniors in the same way as their seniors had done it before.

He paid tribute to his predecessors in the fields of geology, chemistry and mining who have passed away. He was highly appreciative of efforts and contributions of Mr. KM Aslam, Mr. Aslam Alvi, Dr. FI Nagi, Dr. KA Butt, Mr. Muhammad Shafique Akram and many other. "They played pivotal role in development, progress and achievements of the mineral sector through their vision, dedication and hard-work," he added.

Chairman PAEC also lauded the role of living legends who rendered valuable services in their respective fields. He particularly mentioned the names of Mr. M. Y. Mughal, Mr. Muhammad Mansoor, Mr. Shahid Ahmed Syed, Mr. M.A. Samad Baig and others who contributed immensely in minerals sector.

Chairman advised the scientists and engineers to enhance their know-how by studying latest literature on their subject. He further advised the scientists and engineers to polish themselves through related foreign trainings and interaction with academia. He also suggested the revival of think-tank meetings to strengthen knowledge base and decision making through collective wisdom.

Chairman PAEC pointed out that Pakistan is competing with the countries having immense resources and manpower. "We have to rely on indigenous recourses in any respect," he added. While talking about nuclear power plants and their fuel requirements, the Chairman expressed his confidence on mineral sector and hoped, "they can meet our future demands."

Member Fuel Cycle, Mr. Tariq Mahmud (SI, PoP) said that two-day activities and interaction at the seminar will help boost the skills and understandings of engineers and scientists. He informed that PAEC is engaged in academic up-gradation and technical training of our professionals for the adoption of modern technology in major fields of uranium exploration, mining and exploitation.

Director General Mining Projects, Mr. Mujbeer-ur-Rahman (PoP) thanked the Chairman and Member Fuel Cycle for taking keen interest in reformation and modernization of mining sector. "We are continuously upgrading our system because of your encouragement and help," he added.

Director General Exploration, Mr. Abdul Majid Azhar (PoP), in his keynote address, said that being a major centre of PAEC setup, AEMC is contributing in the areas of prospection, exploration and mining of uranium. He said that present top management of the PAEC has always been supportive in promotion and induction of advanced technology that has resulted in significant enhancement of progress and production.

He thanked the Chairman, Member Fuel Cycle along with the participants and resource persons for making it a successful event.

Pakistani Delegation Visits CERN

A Pakistani delegation led by Member (Engineering), PAEC Syed Ziauddin visited European Organization for Nuclear Research (CERN) at Geneva from 14 to 17 March 2017 to attend 184th CERN Council Meeting. Director CERN-SESAME Collaborations, Dr. Sohail Ahmad Janjua also accompanied him. Besides attending the council meetings, the delegation visited many CERN facilities such as Compact Muon Solenoid (CMS) Detector, Gas Electron Multiplier (GEM) detector labs, A Large Ion Collider Experiment (ALICE), Mechanical workshops, Metrology labs etc.

CMS, which is an autonomous part of CERN, is undertaking a vigorous program of its upgradation. Installation of newly developed GEM detectors is one of the important parts of CMS upgrade program. A Project is being undertaken for participation in CMS upgrade activities for GEM Assembly/Testing and subsequent local development in Collaboration with CMS (CERN). Compact Linear Collider (CLIC) is a future e-/e+ collider being developed by CERN.



Visit of GEM Detector fabrication labs for CMS by Syed Ziauddin, Member (Engineering) and PAEC delegation



Award of contract to HMC-3 by TE-department of CERN for the renovation of Quadrupole magnets

Pakistani scientists/engineers have been collaborating with CLIC.

Pakistan delegation also visited WA104 project site where two Aluminum Cryostat Containers for Time Projection Chamber (TPC) are being manufactured by Pakistani welders & machinists at CERN. After filling with liquid Argon, these containers will be used for the detection of Neutrinos particles.

The Pakistani team consisting of four welders and one machinist from PAEC workshops have shown the excellent performance in their work. It is an honor that the technicians accomplished their job with dedication and hard work.

PAEC has also secured the service contract for renovation of Quadrupole magnets. Three technicians will refurbish the magnets for increasing its efficiency for operating under higher luminosity conditions. Mr. Khalid Mansoor Hassan Industrial Liaison Officer (ILO) for Pak-CERN collaboration played his role in getting this contract. As a result of this visit/meeting future cooperation was explored for the upcoming projects at CERN and follow up preparation are underway.

Participation of NCNDT in Pre-Service Inspection (PSI) of Chashma Nuclear Power Plant Unit # 4

The National Center for Non Destructive Testing (NCNDT) of Scientific and Engineering Services (SES) Directorate (NEW-1) recently carried out Pre-Service Inspection (PSI) of Safety Class-2 and 3 Piping System Welds/Supports of Chashma Nuclear Power Plant Unit # 4. NCNDT performed this activity as sub contractor of China Nuclear Power Operation Technology Corporation Limited (CNPO). To get the award of PSI from CNPO, NCNDT has to struggle hard to fulfill their stringent requirements. After their satisfaction, CNPO has accepted NCNDT as potential supplier of Non-Destructive services for nuclear power plant.

The purpose of PSI is to collect baseline data of various plant equipment and components with the help of different Non-Destructive Testing (NDT) tools. This baseline data is very important for the safe operation of Nuclear Power Plants, especially for the evaluation of In-Service Inspection (ISI) results in the future Refueling Outages (RFO's).

This time, NCNDT performed Radiographic Testing (RT) of welds/ Supports of various piping System which include Safety Injection System (SIS) and Containment Spray System (SCS). Before this, NCNDT had completed PSI of C-3. The inspected systems included Safety Injection System (SIS), Main Feed Water System (SMF), Residual Heat Removal System (SRH), Main Steam System (SMS) and Containment Spray System (SCS). The techniques applied for PSI of C-3 were Visual Testing (VT), Liquid Penetrant Testing (PT), Ultrasonic Testing (UT), and Radiographic Testing (RT).

By completing this task, NCNDT saved a lot of foreign exchange and also gained valuable experience by working with foreign contractor. CNPO management appreciated the efforts of NCNDT for its professional competency and hard work to achieve the targets successfully and timely.

KP Minister for Agriculture, Sardar Ikramullah Khan Gandapur Inaugurates Farmer's Day-2017 at NIFA, Peshawar

Farmers' Day was celebrated at NIFA, Peshawar on March 08, 2017 as per approved scientific event calendar 2017. Sardar Ikramullah Khan Gandapur, Minister for Agriculture, Government of Khyber Pakhtunkhwa was the chief guest on the occasion and formally inaugurated the NIFA farmers' day. This event is celebrated every year mainly to create awareness on, and disseminate NIFA's developed technologies/crop varieties to the farming communities/end users. The process is an important instrument of technology transfer and is direly needed for enhancement of productivity and food security in the country. The farmers' day programme was managed as described below;

The worthy Member Science Dr. S.M. Javed Akhtar highlighted the overall role of PAEC with particular reference to agricultural activities of PAEC centres in the country. He appreciated the NIFA scientists for their valuable achievements. He was glad to mention the contributions of NIFA plant breeders for evolving 19 high yielding varieties of wheat, oilseed brassica, chickpea and mungbean which are successfully being cultivated in Khyber Pakhtunkhwa. He extended thanks to the Chief Guest for encouraging NIFA scientists for their role in crop productivity enhancement.

Detailed visit of the farmers and other dignitaries to NIFA experimental farm, high vegetables tunnels, mushroom facility and other relevant laboratories in the institute was conducted. The farmers took keen interest while having access to crop varieties/technologies developed by NIFA scientists and highly appreciated the farmer's focused research endeavors. Representatives from the progressive farming community i.e., Mr. Fazli Elahi, Mr. Baz Muhammad Khan, Mr. Faridullah and Mr. Faqir Said expressed their views. They paid tributes for the achievements / association with NIFA for resolving their agricultural problems on sustainable basis.

The Chief guest KP Minister for Agriculture, Sardar Ikramullah Khan Gandapur in his address highly acknowledged and appreciated the research efforts of NIFA scientists for the farming community of the province. He addressed the farmer's problems and invited them in his good office for formal meeting to seek possible solutions and extending the utmost help by the KP government. The chief guest announced and promised to provide sufficient land free of cost to PAEC for establishing an Agriculture Research Institute at D. I. Khan. The proposed location is utmost important for PAEC to boost the productivity of all crops in three provinces i.e., KP, Balochistan and Punjab along with tribal belt.

Earlier, Dr Aurang Zeb Director NIFA, apart from his welcome address briefed the participating guests regarding the significant achievements of the institute for agricultural development in the country and in particular for KP. At the end Mr. Abdul Jabbar Khan, Deputy Director NIFA presented vote of thanks to Chief Guest, PAEC dignitaries, farmers and NIFA employees for making the event successful.



Speakers addressing the audience on Farmer's Day 2017 at NIFA, Peshawar

Enhancement of Quality Culture in compliance with IAEA Safety Standard and ISO 9001: 2015 QMS Standard

Directorate of Quality Assurance (DQA) is determined to promote Quality Culture in PAEC and striving to develop the approach in all employees that “everyone is responsible for quality in his/her domain”. A quality focused culture creates a healthy work environment and leads to satisfy all interested parties, along with compliance of fundamental safety objective.

In order to cope with changing needs of Quality and to upgrade the knowledge of PAEC professionals, DQA has been conducting “Implementation of ISO 9001:2015 QMS & Internal auditing” and “Quality Assurance Level-1”, courses. These courses are meant to train PAEC manpower to develop, implement and maintain the required Management System effectively. In the training program “Implementation of ISO 9001:2015 QMS & Internal Auditing” the changes brought by ISO in 2015 version of the Standard have been addressed in detail for their understanding and

implementation. In addition, internal auditing is also briefed to enhance the skills and knowledge of participants to assess their developed management system.

Since the inception of the two training programs in mid of 2016, DQA has successfully conducted fifteen (15) programs on “Implementation of ISO 9001:2015 QMS & Internal Auditing” for twenty three (23) PAEC establishments and eleven (11) QA Level-1 programs for thirty four (34) PAEC mainly located in Islamabad, Chashma, Khushab, Peshawar, Faisalabad, Lahore, Gujranwala and Abbottabad. More than seven hundred and eighty (780) PAEC professionals including, Engineers, Scientists and Doctors have been trained in these programs.

In the feedback from participants, these courses are appreciated and found useful for them, as well as for establishing and strengthening the Management System of their establishments. More such courses have been planned to be conducted in the future by DQA to train maximum professionals of PAEC.

International Collaboration

Chairman's visit abroad

★ Mr. Muhammad Naeem, Chairman, PAEC led Pakistan delegation to participation in Meeting of IAEA Board of Governors from held in Vienna, Austria 06-10 March, 2017.

Member's visit abroad

★ Syed Yusuf Raza, Member (Power) and Mr. Mazhar Hussain Zaki, Member (Finance), Pakistan Atomic Energy Commission (PAEC) proceeded to China from 16-24 February, 2017 for official Assignment.

★ Mr. Mazhar Hussain Zaki, Member (Finance), PAEC HQ visited USA from 17-26 March, 2017 for Training Course on "Driving Government Performance: Leadership Strategies that Produce Results".

Assignments of PAEC Experts Abroad

★ Dr. Inamul Haq, PE, PIEAS undertook assignment acting as an Expert Meeting of International Network for Nuclear Security Training and Support Centres (NSSC) at IAEA, Vienna (Austria) from 20-24 February, 2017.

★ Mr. Mohammad Sohail Sarwar, DCS, Manager (SAAD), DNPER undertook assignment as Expert for IAEA Consultancy Meeting to Develop the Safety Report on Implementation of Severe Accident Management Programmes for NPPs at IAEA HQ., Vienna, Austria from 28 February -02 March, 2017.

★ The following three officers participated in the IAEA Seventh Review Meeting (7RM) of the Convention on Nuclear Safety held from 27 March to 07 April 2017 in Vienna, Austria:- Mr. Sami-ud-Din Ahmad, DCE, DNS (DOS), Mr. N.U.K. Afridi, Manager (Tech) Co-Director (PC & M), Engineering office and Mr. Hassan Abbas, DCE, K-1.

Visit of IAEA Experts to Pakistan

★ Mr. Graham Michael Smith (British), Director GMS Abingdon Ltd, Mr. Perko Janez (Slovenian) and Dr. Andrey Vladimirovich Guskov (Russian), IAEA Official visited PAEC Rest House, Islamabad for conducting Expert Mission for Waste Management Division, DGNR, Islamabad from 13-17 February, 2017 under IAEA TC Project PAK/9/039 “Strengthening of Infrastructure for Development and Safety Assessment of Radioactive Waste Disposal Facilities” (Phase-III).

★ Mr. Jozef Misak, Vice President for Strategy of UJV Rez, a.s. (Czech Republic), Mr. Milorad Dusic (Slovenia) and Mr. Sorin Holostencu (Romania) visited KANUPP, Karachi from 20-24 March, 2017 for Review of the Post-Fukushima actions undertaken for Expert Mission (EM-159) under IAEA TC Project PAK/9/042.

Visit of Foreigners to Pakistan

★ Following five (05) Foreigners (Chinese) visited NIAB / NIBGE, Faisalabad from 27-28 February, 2017 for "Scientific Cooperation and Collaboration"; Prof. Dr. Ji-Hong Liu, Prof. Dr. Shuang Peng, Prof. Dr. Chunjie Qi, Prof. Dr. Zhiyong Pan, Ms. Yi Yang.

★ Mr. Kenneth James Masters (UK National) from IAEA is visiting PIEAS, from 27 February to 11 March, 2017 for installation of equipment for developing Nuclear Security Lab.

★ Ms. Zainab Afshan Sheikh (Danish National), PhD Scholar at UCPH: and her husband Mr. Farhan Shakir Kharal, visited NIBGE, from 01 March to 30 April, 2017 to Conduct a part of her PhD Research and field sampling trips with NIBGE team to interview donors to address ethical aspects of these studies.

★ The Six (06) members team visited C 2, Chashma Site, Pakistan from 26 March, 2017 to 01 April, 2017 for C-2 Follow-up Peer Review (FUPR) (including travel time); Mr. Katsuhiko Iwaki, Team Leader, Japan, Mr. Yoshikazu Tsuchihashi, Reviewer, Japan, Mr. Kanji Kinoshita, Reviewer, Japan, Mr. Kwang Hoon Lee, Observer, Korea, Mr. Hak Jin Kim, Site Rep, Korea and Mr. Syed Nudrat Zulqarnain, Coordinator (PAEC Liaison Engineer at WANO - TC), Pakistan.

★ The following three (03) WANO team members visited PAEC HQ, Islamabad from 28-30 March, 2017 for C-4 Pre- Startup Peer Review (PSUR) Exit Meeting; Mr. Jean-Michel Marcel Laverdure, Team Leader, French, Mr. Gaetan Leon Joseph Le Corvec, Director General, French and Mr. Ingemar Engkvist, WANO PC Director, Swedish.

Appointments Abroad

★ Mr. Nadeem Arshad, DCE, C-3/4, Kundian appointed as Programme Manager at WANO, Hong Kong Office. He proceeded to Hong Kong for making accommodation arrangement from 18-25 February, 2017 and then will join his new assignment by the end of March, 2017.

Hosting of Workshop

★ IAEA/PNRA hosted Workshop on “Probabilistic Seismic Hazard Analysis (PSHA)”, from 20-24 February, 2017. Six participants from PAEC participated in the subject workshop.

New Building of MINAR inaugurated by Chairman PAEC

Chairman PAEC, Mr. Muhammad Naeem. HI, SI performed the ground-breaking of the new enhanced facilities building at MINAR on 29th March 2017. This building is part of the Rs.896million PC1 that is currently being executed and includes a LINAC, SPECT-CT, CT, CT-Simulator MR, Dexa etc. The enhanced facilities building will not only house many of the new equipment but will also have space for expanding the indoor services.

At this occasion Director MINAR Dr. Durr-e-Sabih gave a presentation on the patient trends and emphasized the affordable and in many cases free services being provided by MINAR. Over 75% of cancer patients are being treated free at MINAR.

DG WASO, Mr. Shahid Iqbal gave a summary of the Chairman's vision of hospital expansion programs and asserted that the current level of investment in medical facilities have never been achieved earlier.

Member Science Dr. Javed Akhtar spoke of the medical and agricultural achievements and exhorted the staff to follow the culture discipline and hard work in their lives.

Finally the Chairman in his address gave an overview of the PAEC's program, emphasizing on the great achievements of the PAEC hospitals and agricultural centres, how the people of the country are being served by these centres. He also spoke about the ambitious power generation program programme and shared the goal of producing 50,000MW by 2050.

In the end, he reassured the audience the defense of the country is in very good hands. The chairman performed the ground breaking with a specially crafted shovel that has now been saved for display in the new building.

A final event of the evening was the planting of a commemorative by the Chairman.



Member Science, PAEC addressing on the occasion of groundbreaking ceremony



Chairman and other dignitaries praying after unveiling the plaque

Groundbreaking for Construction of Shielded Area for Radiotherapy at AEMC Hospital GINUM

The groundbreaking ceremony for construction of shielded area for radiotherapy is inaugurated by Member Science Pakistan Atomic Energy Commission on April 6, 2017. The ceremony was attended by Dr. Fayyaz Ahmed, Director Medical Sciences, Mr. Zahid Ali, Director Project Coordination, Mr. Shahid Iqbal, DG WASO, Mr. Sarbuland Ali Khan, Former-DG WASO, Dr. Imtiaz Ahmed Randhawa, Former-Director GINUM, Khawaja Zarrar Kaleem, President CPWS, and esteemed donors and philanthropists from Gujranwala.

The Gujranwala Institute of nuclear medicine and Radiotherapy (GINUM) was established on 01-10-2010 and is first of its kind in the region for diagnosis & treatment of Cancer. In first phase focus was on diagnostic imaging facilities for cancer patients. In phase-II, which has been approved recently by Govt. of Pakistan, complete radiotherapy facility and wards will be constructed.

The honourable Chairman Pakistan Atomic Energy Commission Mr. Muhammad Naeem visited Atomic Energy Cancer Hospital GINUM Cancer Hospital on 27-08-2016 and promised to start Radiotherapy facility at GINUM at the earliest. In this regard worthy chairman has arranged funds for installation of Co-60 Machine at GINUM.

The program started by Groundbreaking event at site followed by a ceremony at GINUM Auditorium. After the recitation of Holy Quran, welcome address was given by Dr. Sohail Murad, Director GINUM.The chief guest Dr. S.M. Javed Akhtar, Member Science gave a speech and mentioned that PAEC's contribution in medical and health field includes 18 PAEC Cancer Hospitals, spread all over the country and few others in pipeline. He said that It is honor for PAEC that Cancer hospitals are providing modern diagnostic & therapeutic facilities to people in the fields of Nuclear Medicine and Radiotherapy. It is worth mentioning



Member Science and others after the unveiling of plaque at GINUM

that more than 8, 00,000 patients, visited PAEC cancer hospitals last year which is 80% of total cancer burden in Pakistan. He also appreciated the generous efforts of philanthropists for service of the mankind who are contributing through Cancer Patients Welfare Society. Vote of thanks given by Mr. Syed Raza Haider, Sr. Scientist. Local community and CPWS members appreciated the PAEC authorities for providing these facilities in Gujranwala division.

Two-Day Refresher Course on Fundamentals of Analytical Chemistry

A two-day refresher course on "Fundamentals of Analytical Chemistry" was organized by Quality Core Group (QCG) at PIEAS, Islamabad from March 21-22, 2017. The honorable Chairman PAEC, Mr. Muhammad Naeem, H.I., S.I., graced the occasion as Chief Guest with Rector PIEAS, Members and other dignitaries in attendance.

QCG was formed in February 03, 2016 under the auspices of worthy Chairman, consisting of members from Fuel Cycle and Materials setups.

Chairman PAEC gave valuable insights in his thought provoking inaugural address. He advised the chemists to reacquaint themselves with the knowledge of chemistry from nascent stage to the expert level. He further advised to share the knowledge and expertise through training on instruments available at different sites of PAEC and through technical workshops by broadening the scope and also taking other PAEC organizations into the fold.

Earlier, in his welcome address, Member (Fuel Cycle) expressed his gratitude to the worthy Chairman and other dignitaries for making it to the occasion. He outlined the core activities of the QCG such as Inter-Laboratory comparison, reference material production, instrument records and expertise, training of manpower and comparative study of quality assurance standards.

About 26 participants from across the Member (Fuel Cycle) and Member (Material) setups attended the course. The course was based on fundamental topics like analytical measurements, standards and calibration, data handling, sample management protocol, selection of methods, safety in analytical labs and some analytical techniques. Ten



Member Fuel Cycle presenting commemorative shield to the Chairman

lectures were delivered by SMEs (Subject Matter Experts) followed by table-top exercises. Afterwards, at the end of each day, there were discussions with technical experts. Adequate resource material was provided to the participants in the form of booklet of presentations and a soft copy of the same along with relevant literature.

The event was concluded by Dr. Nasrullah Khan, DG Projects and Dr. Nasir Majeed Mirza, Rector, PIEAS. DG Projects highlighted various outcomes of course activity and thanked the speakers, participants, organizers and PIEAS for a successful event and stressed the need for improving on practical aspects of the table-top exercises. The rector PIEAS appreciated the course activity and expressed his commitment and desire to provide the forum for further future activities at PIEAS.



Group photo of the participants with Chairman PAEC, Member Fuel Cycle and other officials

PAEC Cancer Hospitals Observe World Cancer Day

World Cancer Day is usually celebrated throughout world to emphasis importance of Cancer prevention, timely early detection and management. This may help to counter myths regarding cancer management that delays diagnosis and ultimate outcome.

Pakistan Atomic Energy Commission (PAEC) through 18 cancer hospitals in the country, is fighting against this deadly disease since 1960 when first medical centre, Atomic Energy Medical Centre Karachi (AEMC) was established and continues the vision to control cancers by establishment of state of art cancer hospitals throughout country.

AEMC Karachi celebrated this day by organizing Sports day to emphasize the importance of Clean Environment, Healthy Food And Exercise in Cancer Prevention.

All 18 PAEC cancer Hospitals celebrated this day with the spirit of fighting against cancer. Cancer Prevention is one of the mandates of PAEC. All centers take active part in different cancer awareness programmes.

In his speech, the chief guest chairman PAEC, Muhammad Naeem appreciated the objective of this event and praised the efforts of the workers for the enthusiasm, not only for treatment but also to work for cancer prevention.

World Cancer Day Seminar was organized by Atomic Energy Cancer Hospital KIRAN, Karachi on 11th February 2017. The main objective of the seminar was to spread the awareness and knowledge among the general public regarding cancer.

Honorable Chief Minister Sindh, Syed Murad Ali Shah was the chief guest of the event, accompanied by Dr. Sikandar Mandhro, Health Minister, Sindh. Mr. Muhammad Naeem, Chairman PAEC along with Dr. Syed Muhammad Javed Akhtar, Member (Sciences), PAEC welcomed chief guest on behalf of the commission. The chief guest was taken to various departments at KIRAN. Director KIRAN presented before the Chief Minister the current status of cancer treatment in Sindh and the working environment and the facilities available at KIRAN.

A briefing was given to him highlighting the role of PAEC in providing cancer treatment through its 18 Atomic Energy Cancer Hospitals. Chairman PAEC informed that over 80% cancer patients in Pakistan visit these medical centres and



World cancer day walk at NIMRA

quality care services are being provided to all either free of cost or at highly subsidized rates. He said that currently five of these cancer hospitals are operating in Sindh namely AEMC and KIRAN at Karachi, NIMRA at Jamshoro, NORIN at Nawabshah and LINAR at Larkana. During the meeting Chief Minister agreed to extend support in upgrading the nuclear medical centres of PAEC located in Sindh.

Addressing the audience, Chairman Pakistan Atomic Energy Commission Mr. Muhammad Naeem, said that PAEC's contribution in human health includes multiple activities for both cancerous and non-cancerous patients. He highlighted the role of PAEC in energy and agriculture sectors.

Syed Murad Ali Shah said that the KIRAN Hospital was founded by the then Prime Minister Shaheed Mohtarma Benazir Bhutto in 1993 and it started functioning in 2001. He also said that “I feel inner pain when I listen about cancer; because, I have lost my parents both father and mother due to cancer”. He further said that “I know how it turns people orphans, deprive them of their near and dear ones”. Syed Murad Ali Shah vowed to support all the cancer hospitals, particularly PAEC cancer Hospitals in the shape of providing funds and necessary machinery and equipment. So that the best possible cancer treatment to people of this province is assured. He said that spreading awareness is a better and cheaper option and due attention should be paid to this. So that people could change their lifestyle, food habits and adopts healthy practice in their day to day life. The chief guest also visited in-door patient ward and distributed fruit baskets to admitted patients.



Chief Minister Sindh, Chairman PAEC, Member Science PAEC and other officials at KIRAN, Karachi

Similar seminar on cancer awareness was held in Atomic Energy Cancer Hospital, NORI, Islamabad on 4th February. Dr. Tariq Fazal Chaudhry, Minister CADD was the chief guest. In his address he said "Measures should be taken to prevent cancer and to detect it at an early stage". He further said that the Government is committed to uplift the health care and provide the best possible treatment facilities to all patients. The number of cancer cases is expected to increase by 70% in next 20 years thus necessitating the need to devise and implement national cancer prevention policy on an urgent basis. He appreciated the fact that through its Atomic Energy Cancer Hospitals all over the country, Pakistan Atomic Energy Commission is lessening the miseries of more than 80% of cancer patients irrespective of age, financial status of patients and stage of the disease. He promised to help NORI in its expansion and upgradation. He admired the services of Oncology department of NORI in cancer awareness and treatment and stressed that media should enhance its role in creating cancer awareness.

Member Science PAEC Dr. S. M. Javed Akhtar highlighted the role of Pakistan Atomic Energy Commission in the fight against cancer. He said PAEC through its 18 dedicated cancer hospitals spread in all the four provinces of Pakistan is engaged in providing diagnostic and treatment facilities. PAEC takes pride in treating a large majority of suffering humanity not only from Pakistan but also from other countries. Besides providing treatment to already diagnosed patients, our hospitals are also offering screening services for early detection of the disease and hence timely treatment which is prerequisite for cancer control.

Keeping up the tradition, Atomic Energy Cancer Hospital (AECH) NORI Islamabad organized public awareness seminar on World Cancer Day to alleviate myths and misconceptions about cancer and to persuade masses for early diagnosis if prevention fails.

One of the objectives of the event was to show solidarity with all those who have suffered from cancer. The event was attended by a large number of participants from different walks of life including dignitaries, teachers, students,



A view of World Cancer Day celebrated at AEMC, Karachi

nurses, paramedical staff, patients and their relatives. Federal Secretary Ministry of National Health Services, Regulation and Coordination (NHS & RC) Mohammad Ayub Sheikh was the guest of honor. He congratulated Director AECH NORI and Oncology Department for putting up such an informative and successful program for the awareness of general public and such activities should continue throughout the year. He distributed gifts among pediatric cancer survivors of NORI who were called as "Bahadur Warriors empowered by Oncology Department NORI".

Chairman Pakistan Green Task Force Dr Jamal Nasir, Chairman Pakistan Bait-ul-Maal Barrister Abid Waheed Sheikh graced the occasion by their presence.

Moreover, Nuclear Institute of Medicine & Radiotherapy (NIMRA), and Cancer Patient's Welfare Society (CPWS), Jamshoro in collaboration of Liaquat University of Medical & Health Sciences (LUMH) Jamshoro has arranged a "Cancer Awareness Walk" on World Cancer Day 3rd February 2017, for Public Awareness, from LUMHS Main Campus to NIMRA, Jamshoro.

Prof. Dr. Fateh Muhammad, Vice chancellor University of Sindh Jamshoro was Chief Guest, Prof. Dr. Muneer Ahmed Junejo, Pro-VC LUMHS, Jamshoro was "Guest of Honor" and a large number of general public participated in this walk.

World Cancer Day was also observed at DINAR, INOR, and other Atomic Energy Cancer Hospitals.



Awareness walk with State Minister CADD Dr. Tariq Fazal and Member Science & Power (PAEC) on World Cancer Day

Edited and produced by Shahid Riaz Khan, Director, Scientific Information and Public Relations,
Pakistan Atomic Energy Commission P.O. Box No 1114, Islamabad, e-mails:sipr@paec.gov.pk & newsforpublication@gmail.com