



Dayalbagh Educational Institute (Deemed University)

DEI news

Special Issue 2015 No. 1

DST-PAC Meet

The 10th DST Water Technology Initiative PAC Meeting was held at the Institute on Oct. 17-18, 2014.

Prof. Anand Mohan, Registrar of the Institute and Chairman the PAC was also supported by Prof. A. Majumder, Dr. K M Paknikar, Er. Lalit Mohan Sharma, Prof. A B Gupta, Dr. (Mrs.) K. Vijayalakshmi, Dr. S K Gupta, Dr. Bhavanath Jha, Dr. Ramani Iyer, and Dr. (Mrs.) Purnima Jalihal. The DST was represented by Dr. D. R. Prasada Raju and Dr. Neelima Alam who were assisted by Ms. Indira Nair and Ms. Domti.

The Inaugural Session on Oct. 17, 2014 was presided over by Prof. P. K. Kalra, Director of the Institute. Its highlight was the presentation

by Dr. D. R. Prasada Raju on the Water Technology Initiative of the DST. The function was followed by plantation 16 saplings. The PAC considered 12 fresh proposals and reviewed 2 ongoing projects.

The Expert members of the PAC went around Dayalbagh and witness various activities in promoting green measures, like solar power in residence and institutions, solar heating in Bhandar Ghar and DEI Hostels, field activities of the residents of Dayalbagh and students of DEI, etc. Following the visit to Dayalbagh, the members of the PAC were taken to the Agricultural fields at Sikandarpur, where they had an audience with Most Gracious Huzur.



DEI Signs an MoC with Indian Oil Corp. Ltd.

DEI witnessed a long awaited rewarding outcome of the over fifteen years of research work in the field of generation of Hydrogen when IOCL, after careful observation, agreed to help in taking the research results forward. On Oct. 10, 2014, a Memorandum of Collaboration was signed between DEI and IOCL R&D Centre, Faridabad in order to jointly develop a pilot plant of 10 litre/hour capacity of Hydrogen production using solar power.

The signing ceremony was organized at the Quantum & Nano Centre, DEI where the MoC was signed by Shri B.P. Das, Executive Director, IOCL and Prof. P.K. Kalra, Director, DEI and was witnessed by Shri S.S. Raghav, GM (AE & Solar) and Prof. SahabDass, Head, Dept. of Chemistry and Dean, Faculty of Science along with several other distinguished guests and research scholars. This has indeed added tremendous luster to the name of DEI that is known for its quality education and socially useful research work.





Visits by Foreign Delegates

Youth Delegation From Korea Visits DEI

A twenty-member Youth delegation from Korea visited DEI as a part of Youth Programme under the Ministry of Sports on Sept. 19, 2014. The delegates were overwhelmed by observing the highly spiritual academic environment of the Institute. They were particularly impressed by the Solar Power System, a unique feature of DEI, and were keen to understand about new initiatives in this field.



Celebrations : Special Events

Pledge for Cleanliness

Keeping in line with the 'Swachh Bharat Abhiyan', a nation-wide cleanliness campaign started at the behest of the Honourable Prime Minister, a Pledge-taking Ceremony and Cleaning Drive was organized on Oct. 2, 2014 at the Institute. Although the Oath ceremony was organized under the aegis of



National Service Scheme, but besides the officials and student volunteers of NSS, most of the members of DEI community including Director Prof. P.K. Kalra, Registrar Prof. Anand Mohan, Deans of Faculties, Heads of Departments, and a large number of Teaching and Non-teaching staff also actively took part in the campaign. Dr. Ashok Kumar Shrotri from NSS Regional Centre, Lucknow was also present to witness the programme.

Values and Quality Day Celebrations at DEI

The DEI has won a reputation for being a path-maker and a beacon in every sphere of life. The Institute celebrated the occasion of Diwali as a 'Values and Quality Day' in a unique way by providing a platform to the students of different Faculties to showcase their talents in oratorical and cultural spheres. The Theme for the event was the Importance of Values and Quality in Education. A large number of staff members and students assembled at the Campus to encourage the participants and join hands in paving a way for a better future.



National Service Scheme

Under National Service Scheme various events were organized :

1. International Literacy Day : International Literacy Day was observed on Sept. 8, 2014. On this occasion NSS volunteers of the Institute took active part in Skit Competition, Poem (Composition and Recitation) Competition on Literacy related issues.

2. NSS Day : NSS day was observed on Sept. 24, 2014 to mark



the foundation of National Service Scheme to sensitize youth of the nation about nation building exercises.

3. Medical Camp : Four Medical camps were organized by the NSS unit of the Institute on Sept. 7 & 28 and Oct. 5 & 26. A team of doctors and specialists offered their services owing to which about 1000 villagers were benefitted.

4. Expert Talk of Shri Shailja Kant Mishra : Shri Shailja Kant

Mishra, Ex. DGP (Uttar Pradesh) and Member National Advisory Board NSS delivered an expert talk on 'Social Responsibility' on Oct. 9, 2014. He addressed a gathering of about 200 NSS volunteers and motivated them to take up challenges of society with intent of service and dedication.



5. Visit of Shri Rajeev Gupta : On Oct. 9, 2014, Shri Rajeev Gupta, Secretary, Ministry of Skill Development, Entrepreneurship, Youth Affairs and Sports, Govt. of India, observed NSS activities organized in the Institute. He also visited central facilities of DEI and appreciated the work being carried out at the Institute.



6. National Unity Day : National Unity Day was observed on Oct. 31, 2014 on the Birth Anniversary of Sardar Vallabh Bhai Patel. On this occasion NSS volunteers took active part in various activities, such as "Run for Unity", "Oath Ceremony" and Skit Competition on "National Unity and Political Intervention".



Besides the above-mentioned programmes, various other programmes and competitions were organized to mark the following occasions:

- World Toilet Day (Nov.19, 2014)
- International Integration Week (Nov. 19-25, 2014)

- World AIDS Day (Dec.1, 2014)
- International Women's Day (March 8, 2015)

Seven Day NSS Camp : A Seven Day NSS Special Camp in the Institute was organized from Dec. 23-29, 2014 with the theme "Youth for Cleanliness". Shri Vidhu Kashyap, IRPS, Chairman, Human Resource Reforms Committee, Railway Board (Retd.) was the Chief Guest of the Inaugural Function.

NSS volunteers rendered services at Nagla Jageshwar, Nagla Haveli, Lashkerpur, Vidyanagar, Nagla Boori, Nagla padi, Durga nagar, Devi Nagar, Saran Ashram Hospital, Basera etc.

A Blood Donation Camp was organized with the help of Samarpan Blood Bank, Agra on Dec. 28, 2014 in which teachers and volunteers donated 90 units of blood.



The Valedictory Function was held on Dec. 29, 2014. Shri, Anoop Srivastava, IPS, IG, Railway Protection Special Force, Railway Board graced this Occasion.

From Dec. 7, 2014 (111th Camp), the NSS unit of the Institute added new dimensions to the camp. These, apart from Free Medical and Hole in the Wall Programme, also included Children Recreation Centre, Centre for Spoken English, Chaupal, Centre for Education and Career Counseling, and Rural Assistance Centre. During December, two Free Medical and Rural Assistance Camps were organized on Dec. 7 & 21, 2014. A large number of villagers including men, women, youth and children benefitted from the camp.





Special Conferences, Workshops, Meetings & Achievements

DEI Two-Thirds Threshold Workshop (1981-2014) for the Landmark Event DEI@50 (Year 2031)

With the objective of sharing educational progress towards DEI Vision-2031, via discussing DEI Educational Policy Initiatives of Innovation, Quality and Values in education, a One-day Special Workshop was organized at the Quantum Nano System Centre and Centre for Consciousness Studies, DEI on Nov. 1, 2014. Earlier, six 'Tracks' were set to discuss the various dimensions of education at DEI, where discussion was done through email for about 8 weeks and finally, as a follow-up, a Round- Table Discussion was held between the group members of the six Tracks covering various facets of education in DEI during the Workshop.



The discussion was followed by Plenary Talks delivered by eminent personalities such as, Prof. Ashok Vohra, Delhi University, Prof. Kiran Seth, IIT Delhi, Prof. M.P. Parnameswaran, Fellow, Kerala Sasthra Sahithya Parishad (KSSP), Kerala, Prof. Bijoy H. Boruah, IIT Delhi, Prof. S. Swaminathan, former Prof. IIT Delhi, Prof. T. Karunakaran, former Director, MGIRI, Wardha, Prof. S.S. Prabhu, IIT Bangalore and Prof. R.S. Nirjar, Former Chairman, AICTE.

In between these Plenary Talks, Prof. P.K. Kalra, Director, DEI, delivered a Key Note Talk, through which he presented the DEI Model of Education. This Talk was followed by the brief presentations of the six Tracks.

During the Valedictory Session Shri. F.C. Kohli, Founder CEO, TCS, and the Guest of Honour, gave his valuable remarks, followed by the Valedictory Address by Prof. D.P. Agrawal, Former Chairman, Union Public Service Commission.

The day ended with a Panel Discussion attended by some of the invited speakers along with Director, DEI, to discuss the ICT-based Vocational and Entrepreneurial Initiatives in select Remote,

Backward and Tribal Communities of India as Growth Models.

QANSAS 2014

International School on Quantum and Nano Computing Systems and Applications : The next edition of International School on Quantum and Nano Computing Systems (QANSAS 2014) was organized from Nov. 26-30, 2014 at the Nano Centre, DEI with 24 invited speakers from top academic and research institutes including University of Waterloo, University of California at Berkeley; University of California at Los Angeles; Mt. San Antonio College, California; IIT Delhi, IIT Kanpur, JNU Delhi, IMSc Chennai, ISI Kolkata, IISER Kolkata, IIT BHU, TIFR Mumbai, and DEI, Dayalbagh.

A special forum on 'Consciousness : Integrating



Eastern and Western Perspectives' was organized on Nov. 26, 2014. The Vision Talk was delivered by Revered Prof. P.S. Satsangi Sahab, Chairman, Advisory Committee on Education, Dayalbagh Educational Institutions entitled "Satyam – Shivam – Sundaram Revisited in the Perspective of Grand Macro / Micro Cosmology". Plenary Talks were delivered by Prof. Mark Juergensmeyer, University of California at Santa Barbara, USA entitled "Thinking Globally About Global Consciousness"; Prof. David Christopher Lane, Mt. San Antonio College, USA entitled "The Oceanic Metaphor: Meaning Equivalence (M.E.), Probability Theory, and The Virtual Simulation Hypothesis of Consciousness" and Prof. Andrea Diem Lane, Mt. San Antonio College, USA entitled "The Cerebral Mirage : Understanding the Deceptive Nature of Consciousness". Later in the evening, a Panel Discussion moderated by Prof. Mark Juergensmeyer and Prof. P. Sriramamurti was held.

The Inaugural Talk on November 27 was delivered by Prof. Leonard Mlodinow, Caltech, entitled "What Modern Neuroscience and Psychology Teach us about the Role of your



Unconscious Mind in Determining your Feelings, Decisions, and Behavior”. The Valedictory Talk on Nov. 30 was delivered by Prof. Mani Lal Bhaumik, University of California at Los Angeles, entitled “Our Place in the Cosmos”. Another Panel

Discussion on “Consciousness, Decoherence and Measurement Problem in Quantum Theory” moderated by Prof. Mani Lal Bhaumik and Shri. Prem Prashant was held in the Valedictory Function.

Special Events: Various Faculties

Faculty of Arts

Annual English Drama Festival, 2014

The Annual English Drama Festival organized by the Department of English Studies, DEI, was held from Nov. 7-9, 2014 at the Convocation Hall Complex. Theatre lovers across the different parts of the city thronged to enjoy this three-days delightful treat for drama fans.



The plays of DEI Prem Vidyalaya and Faculty of Social Sciences, DEI, were adjudged the ‘Best Production’ at the school and college levels respectively. In fact, each play could win prizes in different categories. The prizes were given away by the chief Guest Mrs. Manisha Trighatia, IAS, Vice-Chairman, Agra Development Authority.

Apart from the dignified presence of Director DEI, Registrar DEI and some other officials of DEI and Dayalbagh Sabha, this year the organizers were highly enthralled to witness the Gracious presence of Most Revered Prof. P.S. Satsangi Sahab, Chairman, Advisory Committee on Education, Dayalbagh Educational Institutions, on one of the days of the festival.

Home Science Department organized a one day workshop on curriculum Development of B.Voc-Food Processing and Preservation Programme on Sept. 27, 2014.



An exhibition-cum-sale was organised by Department of Home Science on Oct. 22, 2014. The Exhibition was inaugurated and graced by Smt. Sangita Bhatnagar, wife of Commissioner, Agra Division. Different furnishing articles like bed sheets and cushion covers made by students using hand embroidery, painting, block printing, screen printing and patch work were exhibited. Decorative pouches made by students were available for sale.

Students’ Canteen managed by Dept. of Home Science was inaugurated by Shri Rajiv Gupta, Secretary, Ministry of Skill Development, Youth affairs, Sports, Govt. of India on Oct. 9, 2014. The Canteen has been functioning since then on regular basis offering healthy and hygienic food items at reasonable prices. The canteen is open for students during the recess time (1.50- 2.15 pm).

A one day workshop to fine tune the curriculum of B.Voc (Bachelor of Vocation) Apparel Manufacturing was conducted in Home Science Department of DEI on Nov. 15, 2014.

A National Workshop - “Gayaki of Agra Gharaana” was organized by the Music Department from Nov. 17-19, 2014. Renowned artist of Agra Gharana, Prof. Yash Paul was the chief Resource Person.

National Workshop on “Karnatak & Uttar Bhartiya Taal Paddhati” was organized by the Department of Music from November 2014. Renowned Mridangam Artiste Dr. Satguru Saran was the Resource Person.

A National Seminar – “Riyaz in Music” was organized by the Music Department on Feb. 6-7, 2014.

Portrait demonstration by an eminent artist Prof. Zargar Zahoor, Head, Department of Applied Arts, Faculty of Fine Arts, Jamia Millia Islamia university,



New Delhi was held on Sept. 13, 2014 in the Department of Drawing and Painting under the project entitled UGC PG “e- Pathshala” in Visual Arts.



Department of Drawing and Painting had organized “SCULPTURE CAMP 2014, a National Workshop on Sculpture sponsored by UGC, (Dec. 22-30, 2014)”, which was inaugurated by Prof. Vasudev Viswas, Apeejay Collage, Amritsar and Shri M.K.Banjary (J.J. School of Arts) Shri Gag ji Mokpal (Jamnagar) from Gujarat participated as the Resource Persons.

Faculty of Commerce

A “One day national workshop on Contemporary Areas and Methods of Research in Accounting, Finance and Taxation” was organized by Accountancy and Law Department of Commerce faculty on Dec. 21, 2014.



A “One day national workshop on Accountancy and Law Curriculum in Changing Scenario” was organised by Department of Accountancy and Law Faculty of Commerce on Feb. 15, 2015.

A special Lecture was organised for B.Com students on the Topic, “Insurance” Shri Tarun Thadani, General Manager Insurance, Deepak Fertilizers, Pune, was the Speaker.

Faculty of Education

Shri Bajarang Bhushan organised a Ten- Day Yoga Camp from Sept. 8-18, 2014 in Faculty of Education for B.Ed. (male) students.

Pupil Teachers of the faculty organized various competitions at Shree Shailraj Digambar Jain Girls’ Inter College, Agra, Oct. 15-20, 2014. The programme was concluded with a workshop on “Problem Solving Technique for In-service Teacher and Pre-service Teacher”. The organizers were Shubha Maheshwari and Anjana Verma.

A five-day Scouting–Guiding Camp was organized in Education Faculty from Dec. 22-27, 2014. The Camp was inaugurated by Mrs. Saroj



Prashant, Social Activist. It included competitions on various cultural activities. The B.Ed. and PSTE students along with the faculty staff, went for hiking to Jamuna Pump where they cooked food on brick stoves. The Valedictory Function was chaired by Major Gen.(Retd.)N. P. S. Bal. The camp was convened by Dr. G.P. Satsangi, Dr P. S.Tyagi and Dr. Arti Singh.



A Three-day Workshop on the theme ‘Cultural Education and Role of CCRT’ sponsored by Centre for Cultural Resources and Training (CCRT) under the aegis of Ministry of Culture, Government of India, was organized at the Faculty of Education, from Dec. 29-31, 2014, for the in-service teachers of Government and Govt. aided schools. Chief Guest Smt. Sneh Bijlani, Treasurer, DEI, inaugurated the Workshop with her speech on ‘Cultural Education in DEI’. A three- day exhibition of the productions and publications of CCRT was also organized. Training related to various handy-craft work was provided to the participants by the local artists. Dr. Savita Srivastava, District Resource Person, DRP, convened the Workshop and Prof. N.P.S. Chandel acted as its Co-convenor. About 40 school teachers participated in the Workshop.



Faculty of Engineering

Curriculum Workshop

Curriculum Workshop in Civil Engineering was held on Aug. 8, 2014 at D.E.I. Faculty of Engineering. Experts from renowned Institutions and Universities as also from the corporate field held detailed deliberations and made recommendations related to the curriculum of Civil Engineering Prof. K. Hans Raj was Convener of the Workshop.

Curriculum Workshop in Architecture

Specialization of Civil Engineering was held on Sept. 13, 2014 Faculty of Engineering in which Experts from renowned Institutions and Organizations and practicing architects of the country were invited to discuss and suggest ways to make Architecture as an important component of the curriculum of Civil Engineering.

Faculty of Science

The Department of Chemistry has been sanctioned UGC-SAP (DRS Phase-II) Programme with financial outlay of Rs. 70 Lacs for a period of 5 years (2013-2018). First Advisory Committee Meeting of the programme was held on Sept. 8, 2014 in the presence of Expert Member nominated by the UGC, Prof. BR Mehta, Department of Physics, IIT Delhi. The review Committee was satisfied with the progress of the project and overall graded the performance to be "EXCELLENT". Prof Mehta, later in the day also delivered a talk on the topic "*Controllable Growth of Nano Structures*" to Post Graduate students, Research Scholars and Staff.

About 40 Post-graduate students and Research Scholars under the supervision of five Faculty Members of Dept. of Chemistry went on Oct. 8, 2014, to Delhi, on an Educational Tour. The team visited Inter University Accelerator Centre(IUAC) and International Centre for Genetic Biotechnology(ICGEB).The students got to see the working of 15 MeV Pelletron at IUAC. Later, the team also visited an industry, Intertech Pvt. Ltd., located at Gurgaon, Haryana which is operating from different countries across the world. The students



Students at the Inter University Accelerator Centre, New Delhi

learnt the intricacies of working in industries and the role that chemistry plays in such operations.

Prof. Lina Nilsson, Innovation Director, Blum Centre for Developing Economics, University of California -Berkeley, USA and Co-founder of Tekla Labs, USA, visited the Department of Zoology on Dec. 15-16, 2014. and interacted with Faculty and the students over various aspects of innovative designing in research arena and also demonstrated how inexpensive labs could be set up with local materials. Prof. Nilsson also delivered an open talk on 'Innovation and Research.



The Department of Physics and Computer Science organized a Physics Curriculum Redesign workshop on Dec. 19 and 20, 2014.

Prof. Debashish Chowdhury (IIT, Kanpur) and Prof. Apoorva Patel (IISc, Bangalore) were the two External Experts. Mr. Debanjan Chowdhury (Graduate Student in Physics, Harvard University) also attended the Workshop on the second day.

The Experts suggested several changes in the existing curriculum. Many of such suggestions were incorporated in the syllabus after due discussions with the Faculty of the Department.

Students' Visits

Arat Pratyaksh Kalra, completed a summer studentship at the University of Alberta, Edmonton, Canada from May, 2014 to August 2014 under the supervision of Dr. Jack Tuszynski. He worked on the inverse relationship between Alzheimer's disease and cancer and also explored the possibility of inhibiting the spread of cancer using medium frequency alternating electric fields. \$1400 CAD per month was given as stipend during this studentship. He co-authored a research article entitled "Biological wires, communication systems, and implications for disease" in the Elsevier Journal *Biosystems* (available online, Nov. 4, 2014).

Ms. B. Binathi, was selected with 4500 Swiss Franks as stipended for internship under the



prestigious CERN Openlab Summer Student Programme 2014. She worked at the IT Databases group at CERN on the project titled “*Integration of the IT General Notification Infrastructure into IT Database tools*”, from June-August, 2014. During the programme, she visited various renowned Centres of advanced scientific experimentation facilities, She has been invited to continue her work from India as an external user for a period of one year.

Projects Sanctioned

DST, New Delhi has sanctioned the following projects/fellowships for a term of 3 years each :

Dr. Anita Lakhani (PI) and Prof. K.Maharaj Kumari (Co-PI). Gas-Particle Partitioning of Polyaromatic Hydrocarbons (PAHs) and Nitro-PAHs at a Traffic and Rural Site in Agra (Rs. 38.5 lacs).

Dr. Aparna Satsangi received Women Scientist Scheme A PDF Fellowship, Chemical Characterization of PM_{2.5} at a Rural Site of Agra, (Rs. 22.6 Lacs).

Technical College

New Facilities Generated for Measurements of Invisible Particles

MWR (Multiwavelength Radiometer): MWR measures aerosol optical depth (AOD) at 10 wavelengths in the ambient atmosphere. MWR derives AOD from measurements of direct solar irradiance, using a set of calibration constants for each wavelength. The obtained AODs at total of 10 wavelengths can be utilized to retrieve the wavelength exponent, which is an index of aerosol size distribution.

Aethalometer: This instrument simultaneously samples and measures the mass concentration of black carbon particles in the air. It gives real time particle concentration and measures light absorption by suspended aerosol particles at seven wavelengths,

from 370 nm (UV) to 950 nm (IR). It assists in identifying the primary components.

A workshop was organized on Sept. 22, 2014 to celebrate Brain Year. Eminent scholars and Scientists from all over the world attended the Workshop and shared their experiences. Dr. J.C.Tan, Global Protect Manager from A.D. Instrument Australia, gave presentation to use Data Acquisition System, Power Lab., Lab. Chart Software to evaluate E.C.G., E.E.G., E.M.G. and E.O.G. digitally for activity of Brain and difference part of Body to derive precise cause of illness.

While inaugurating the Workshop, Padamshri Dr. D K Hazra advised everybody to regulate High BP, Diabetics and problems relating to liver through effective use of Yoga and Homeopathy. Dr. J K Arora, Organizing Secretary of the work shop, elaborated about the workshop which was attended by about 100 Eminent scientists and scholars. Sh. B B Rao, Principal DEI Technical College and Sh. VP Malhotra were also present in the Workshop.



Prof. Prem Kumar Kalra, Director, DEI proposed to hold such workshops in future for the benefit of the mankind and expressed his good wishes for the success of the workshop.

Prem Vidyalaya

Sports Day was celebrated on 22 Oct. 2014, Dr. Saroj Prashant inaugurated the programme. Bhuwaneshwari Gautam of class XIIA was declared Senior Sports Champion.

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Obituaries

We are intensely grieved to report the sad demise of Dr. Raj Kumari Kalra on Oct. 25, 2014. Born on March 11, 1964, She joined the Department of Pedagogical Science, Faculty of Education in July, 1994. Dr. (Km.) Raj Kumari Kalra rendered her sincere service for 24 years to the Institute. She was a sincere, devoted and diligent teacher. She extended her fullest cooperation with all her abilities to discharge duties towards the fulfillment of the mission of the Institute. We pray in the Lotus Feet of the Supreme Father to shower Mercy on the departed soul and grant solace to the bereaved family.