



संक्षेप

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CSIR-IIP FOUNDATION DAY & DR BHIMRAO AMBEDKAR JAYANTI, APRIL 14, 2012

The Institute celebrated its 52nd Foundation Day on April 14, 2012. On this occasion, the foundation stone for a new building of the Kendriya Vidyalaya, CSIR-IIP, Dehradun, was laid by Dr M O Garg, Director. The main attraction of the function was the CSIR-IIP Foundation Day Lecture delivered by Mr Sudhir Vasudeva, Chairman & Managing Director, ONGC. Mr Vasudeva later inaugurated the Modernized Emission Measurement Facility Laboratory in the campus, too.

Delivering the lecture, he said that the need of the day is to develop energy-efficient and environment-friendly technologies which are globally competitive. He stressed on the need to develop bio-chemical processes as these are known to be less energy-intensive and to adopt simulation and modelling techniques effectively.

A word from the Director...

It was an honour to welcome Shri Sudhir Vasudeva, Chairman & Managing Director, Oil & Natural Gas Corporation Limited, as Chief Guest on our Foundation Day. Technology Day has a special significance for CSIR-IIP and it was our privilege that Dr R K Malhotra, Director (R&D), Indian Oil, visited us as Chief Guest on that day. After a gap of more than 10 years, the Scientific Advisory Committee of Ministry of Petroleum & Natural Gas met at CSIR-IIP.



A landmark celebration was the signing of the agreement with the Kendriya Vidyalaya Sangathan for transferring of land to Kendriya Vidyalaya, CSIR-IIP for construction of a new building. This has been our dream for over 10 years. We continued to win the first prize for the use of Hindi and have maintained a leadership position.

The Institute continued to make an all-round progress in publishing papers in high impact factor journals, development of new technologies as well as carrying out projects involving strong commercial applications. A large number of our scientists have attended scientific & technical conferences both in India and abroad.

Our continued efforts to commercialize our technologies within India as well as abroad have attracted several clients and we would be announcing several such collaborations in the near future.

I thank the scientists and the staff of the Institute and our well-wishers for our continued march to progress.

• Dr M O Garg



Mr Sudhir Vasudeva lights the inaugural lamp

Talking about the phenomenon of 'Brain-Drain', Mr Vasudeva said that we could have prevented it. This trend, born in the fifties and sixties, is alive and kicking even today. As many as 12% scientists & 38% doctors in the USA are Indians, and in NASA alone, 36% or almost 4 out of 10 scientists are Indians. Further,



Dr Garg lays the foundation stone for a new KV-IIP building as the KVS & KV-IIP officials felicitate

34% employees at Microsoft, 28% at IBM, 17% at Intel and 13% at Xerox are Indians. Even today, Indians comprise the second highest batch of foreign students in the US universities, most of whom prefer to stay back. There is a need to reverse the process.

Mr Vasudeva said that at present India's R & D spend is merely 0.9% of its GDP. In terms of numbers in US \$ adjusted for PPP, it amounts to 36.1 billion. Compared to the top three nations, i.e., USA, China and Japan with figures of US \$ 405.3, 153.7 and 144.1 respectively, the contrast becomes very stark. While this investment has to increase, it is important to determine where these additional investments have to be made to place us in a global leadership role. His message to the scientists was : *"Dream—Envision—Realize"*.

Dr Garg informed the audience that realizing the finite availability of fossil fuels, research has been started in the areas of alternative fuels including bio-fuels, bio-jet fuels, waste plastics-to-petroleum products etc.

Earlier Mr Vasudeva, Dr Garg & others paid their tributes to Dr Bhim Rao Ambedkar on his *Jayanti* which falls on 14th April every year coinciding with the CSIR-IIP Foundation Day.



Dr Garg & Mr Vasudeva paying respects to Dr Ambedkar

NATIONAL TECHNOLOGY DAY CELEBRATIONS, MAY 11, 2012

"Technology focus is sharper today as it goes on changing continuously. Hence innovation is essential to keep pace with R&D. Many organizations have been seen to have perished due to lack of innovation. As this has been declared as a 'Decade of Innovation' by our Hon'ble Prime Minister, we have to focus on innovation in our R&D organizations." Such were the thoughts expressed by Dr R K Malhotra, Director (R&D), Indian Oil Corporation Limited (IOCL), speaking as the Chief Guest on the occasion of the National Technology Day at the Institute.

Dr Malhotra stressed upon the need to have visionary leaders for R&D. *"We have to pick up from the threads of basic research and make it a marketable product,"* he said. Innovation in his opinion included, in its ambit, innovation in the way of thinking & working also. Dr Malhotra stressed upon the pursuit of alternative sources of energy as oil & gas will still continue to supply a major part of it. These alternative sources include biomass, agro-based, solar, gasification-, thermal, algae & gas hydrates which need more focus.

Prior to this, Dr M O Garg, Director, said that the relevance of National Technology Day was not limited to the significance of the nuclear tests by India at Pokharan in 1998, but that it reminds us that *"Technology is Science at Work"*. It brings into focus the shift from the production & sale of a product to the sale of knowledge.



Dr R K Malhotra initiating the National Technology Day programme

Dr Malhotra also gave away prizes to the winners of a Poster Exhibition, viz Ms Ankushi Bansal, JRF & Mr Shankha Shubhra Acharya, JRF, organized earlier in the day. On the occasion of the National Technology Day, Dr M O Garg, Director, CSIR-IIP, also gave a separate lecture on *"What Does Technology Mean!"*

SCIENTIFIC ADVISORY COMMITTEE (SAC) MEET, JUNE 28-29, 2012

The 71st Meeting of the Scientific Advisory Committee (SAC) of the Ministry of Petroleum & Natural Gas (MoP&NG) on

Hydrocarbons was organized in CSIR-IIP between, June 28-29, 2012.

The deliberations included discussions on, and approval of, the revised SAC Charter; discussion on the areas of R&D and new technologies for continuous improvement of the hydrocarbon sector, and discussion on *Indian innovations*.



Mr Arun Balakrishnan, Chairman, SAC (centre), presides over the SAC meeting

The meeting was attended by Mr Arun Balakrishnan, Chairman, SAC; Mr L N Gupta, JS, MoP&NG; Dr R K Malhotra, Director, IOCL (R&D); Mr B Basu; Mr R K Ghosh, Director (Ref), IOCL; Mr B K Datta, Director (Ref), BPCL; Mr K Murali, Director (Ref), HPCL; Mr S Venkaratamana, MD, CPCL; Mr B D Ghosh, ED, CHT; Prof Shantanu Roy, IIT-Delhi; Mr P S Viswanathan, Head (R&D), BPCL; Mr G Sri Ganesh, ED (R&D), HPCL; Dr S Banik, Mr Jagdish Singh & Mr A S Pathak from the CHT; Mr R P Verma & Dr N V Choudary from the HPCL; Mr Shantanu Das, Mr Bharat Newalkar, Mr V Ravi Kumar & Mr Padmanabhan from the BPCL; Dr R N Maity, EIL; Dr Srinivas, BITS; Dr Ponnani & Prof M S Babu, Gitam University; Mr B N Prabhu and Mr Anil Bhardwaj, ONGC; Dr A S K Sinha, IT, Bhubaneswar; Dr Sanjukta Subudhi, TERI, Delhi; Mr M V Lall, Chief Geologist, DGH & Mr S K Nema, Plazma.

The SAC members also affirmed their endorsement to support and develop indigenous technologies for inclusive growth of the nation and the oil industry by signing a pledge.



An image of the pledge

The on-going activities of the Institute were showcased in a poster presentation by various research groups working in the Institute. A newly built facility for bio-jet fuels (Pilot Plant) was inaugurated by Mr L N Gupta, Joint Secretary, MoP&NG.



Showcasing the Institute's activities

RESEARCH ACTIVITIES

Sponsored Projects Taken Up

- Test constituents of petrol
- Sample evaluation studies for bench mark pricing of crude oil
- Process simulation and design of soaker drum internals for the visbreaking unit at the IOCL-Mathura Refinery
- Comparative testing and analysis of fresh and degraded engine oil used in MI-17 helicopters
- Study of deposit characteristics on two numbers of motor cycle engine components
- Testing of 4 samples for LDO and Furnace oil
- Evaluation of 7 samples from SSP, Chandigarh
- Corrosion inhibitor performance evaluation studies

Sponsored Projects Completed

- Synthesis of room temperature ionic liquids and to study their applications for extraction of sulphur, nitrogen and aromatic compounds from petroleum feedstocks
- Scale-up studies for conversion of waste plastics and low polymer wax to value-added hydrocarbons
- Pinch technology study at AVU and DCU of the Digboi Refinery
- Studies on clarified slurry oil (CSO) and its conversion into petroleum pitch precursor for advanced carbon materials
- Direct production of bio-diesel from non-edible oil seed by reactive extraction
- FZG fear scuffing performance evaluation of lubricating oil
- Evaluation of Servofyress HFDU 68 ES for FZG test

RESEARCH OUTPUT

Papers Published

- A comprehensive life cycle assessment (LCA) of *Jatropha* bio-diesel production in India, *Sunil Kumar, Jasvinder Singh, S M Nanoti and M O Garg*, Bio-resource Technology, 110, 723-729, Apr 2012
- Single-step catalytic liquid-phase hydro-conversion of DCPD into high-energy density fuel exo-THDCPD, *M G Sibi, Bhawan Singh, Rohit Kumar, C Pendem and Anil K Sinha*, Green Chemistry, 14(4), 976-983, April 2012
- Alternate feedstock options for petro-chemicals: A Road

Map, *M O Garg, S K Ganguly and S Sen*, Hydrocarbon Processing, April 2012

- A temperature- and salt-tolerant L-glutaminase from the Gangotri region of the Uttarakhand Himalayas: enzyme purification and characterization, *Lokendra Kumar, Balvinder Singh, D K Adhikari, Joydeep Mukherjee and Debashish Ghosh*, Appl Biochem Biotechnol, 166 (7), 1723–1735, April 2012
- A scanning electron microscope-based new method for determining the degree of substitution of sodium carboxymethyl cellulose, *Raj Kumar Singh and O P Khatri*, Journal of Microscopy, 246(1), 43-52, April 2012
- Catalytic performance of nano-crystalline H-ZSM-5 in ethanol to gasoline (ETG), *N Viswanadham, Sandeep K Saxena, Jitendra Kumar, Peta Srinivasulu and Devaki Nandan*, Fuel, 95 (1), 298-304, May 2012
- Thio-urea dioxide in water as a recyclable catalyst for the synthesis of structurally diverse dihydropyridol [2,3-d]pyrimidine-2,4-diones, *Sanny Verma and Suman L Jain*, Tetrahedron Letters, 53 (21), 2595-2600, May 2012
- Metal acetylacetonates as highly-efficient and cost-effective catalysts for the synthesis of cyclic carbonates from CO₂ and epoxides, *Subodh Kumar, Suman L Jain and Bir Sain*, Catalysis Letters, 142(5), 615-618, May 2012
- Comparison of structural properties of pitches prepared from petroleum refinery/petro-chemical residues using NMR spectroscopy, *Manoj Srivastava, Manoj Kumar, U C Agrawal, and M O Garg*, Open Petroleum Engineering Journal, 5, 14-20, May 2012
- Catalytic performance of nano-crystalline H-ZSM-5 in ethanol to gasoline (ETG) : blending optimization of Hempel distilled bio-oil with commercial diesel, *Arakshita Majhi, Y K Sharma and D V Naik*, Fuel, 96, 264-269, June 2012
- 3-D mesoporous titanasilicate support for highly- effective hydrodesulphurization catalysts, *R K Sharma, B S Rana, Deepak Verma, Rohit Kumar, Rashmi Tiwari, M K Jha and A K Sinha*, Microporous and Mesoporous Materials, 155, 177-185, June 2012
- A thermo-alkaliphilic halo-tolerant esterase from *Rhodococcus* sp. LKE-028 (MTCC 5562): enzyme purification and characterization, *Lokendra Kumar, Balvinder Singh, D K Adhikari, Joydeep Mukherjee and Debashish Ghosh*, Process Bio-chemistry, 47(6), 983-991, June 2012
- High surface area sol-gel nano-silica as a novel drug carrier substrate for sustained drug release, *Padmaja Parameswaran Nampi, Vinitha Sudha Mohan, A K Sinha and Hari Krishna Varma*, Materials Research Bulletin, 47(6), 1379-1384, June 2012
- The kinetics of hydro-desulphurization of diesel: pore diffusion aspects, *S K Ganguly*, Pet. Sci. Technol., 30(12), 1187-1194, June 2012
- A novel thermo-stable xylanase of *Paenibacillus macerans* IIPSP3 isolated from termite gut, *Pratibha Dheeran, N Nandhagopal, Sachin Kumar, Y K Jaiswal and D K Adhikari*, J of Ind Microbiology & Biotech, 39(6), 851-860, June 2012
- Self-alignment of gold nano-particles through the control of particle-substrate and particle-particle interactions,

Hiroyuki Sugimura, Jeong-Hyeon Yang, Shou Uchida, Takahiro Higashino, Om Prakash Khatri, Takashi Ichii and Kuniaki Murase, Procedia Engineering, Open Access Journal (Proc. of IUMRS Int.I Conf in Asia 2011), 36, 2012, 374-381, 2012

Patent(s) Sealed Abroad

- A composition and process for lubricating oils for two-stroke gasoline engine, *Arun Kumar Singh, Naval Kishore Pandey and Ashok Kumar Gupta*, China, Patent No. ZL200580052271.0, dt. 25.04.2012
- A process for production of ethanol from starch, *DK Adhikari, Tsering Stobdan, Ravindra Pal Singh and Ashok Kumar Gupta*, UK, Patent No. GB2460983, dt. 02.05.2012

Patent(s) Sealed in India

- A process for metal-working fluid from heavy alkylate, *A K Singh, O N Anand and A K Gupta*, Patent No. 251864, dt. 12.04.2012
- A composition of insulating fluid and process for the preparation thereof, *A K Singh, Naval Kishore Pandey and A K Gupta*, Patent No. 253025, dt. 15.06.2012

TRAINING PROGRAMMES ORGANIZED

Programmes on Petroleum Refining Technology

- Programme for the Chemical Engineers of IOCL, New Delhi, March 19 – May 4, 2012
- Programme for the Chemical Engineers of BPCL-Kochi Refinery, May 14 – June 1, 2012



Faculty & trainees at the training programme during May 14 – June 1, 2012

SERVING THE INDUSTRY

S&T Services

- Testing of pre-COP emissions for M/s Biral Power Sol. Ltd., Dehradun
- Testing of homogeneity and miscibility test for M/s BPCL, Mumbai
- Testing of gross calorific value for M/s RSPL, Haridwar
- Emission testing of M/s Birla Power Sol. Ltd., Dehradun
- FTIR analysis of organic matter for M/s ONGC, Dehradun
- Testing of diesel for M/s Mahindra & Mahindra, Haridwar
- Analysis of certain test parameters for the CSIR-CSIO, Chennai
- Balmerol Protomac Hydralube 68 test for FRHF characteristics for M/s Balmer Lawrie Co. Ltd., Kolkata.
- Testing of paraffin wax sample for M/s Shri Kumar

- Enterprises, Coimbatore
- Sample analysis of naphtha for UOP Honeywell Company, Gurgaon
- Compatibility test for homogeneity and miscibility for the BPCL, Mumbai

EXCHANGE OF KNOWLEDGE

Papers Presented in Conferences/Seminars

Graphene 2012, Brussels, Belgium, April 10-13, 2012

- De-oxygenation of graphene oxide in water: green and elegant approach, *O P Khatri, Shivani Choudhary and Harshal P Mungse*

The 24th Biennial Organic Reactions Catalysis Society Conference, Westin Annapolis, MD, USA, April 15-19, 2012

- Starch immobilized Ni-acetylacetonate catalyzed dimethyl carbonate promoted synthesis of cyclic carbonates via cycloaddition of epoxides with carbon dioxide, *Suman L Jain, Subodh Kumar and Bir Sain*

103 AOCs Annual Meeting & Expo, California, USA, April 29 - May 2, 2012

- Reactive Extraction for bio-diesel production using solid green catalyst, *Savita Kaul, Jyoti Porwal, Dinesh Bangwal, Rajaram Bal and MO Garg*
- Development of bio-grease for girth gears, *Savita Kaul, Ponnekanti Nagendramma, RPS Bisht and MR Tyagi*

STLE 2012, 67th Annual Meeting & Exhibition of the Society of Tribologists and Lubrication Engineers, St. Louis, Missouri, USA, May 6-10, 2012

- Environment-friendly/bio-degradable fluids, *Savita Kaul, Ponnekanti Nagendramma and G D Thakre*
- Performance evaluation of journal bearings used in sugar mills applying the Taguchi method, *S M Muzakkir, Harsh Hirani and G D Thakre*

International Mexican Congress on Chemical Reaction Engineering (IMCCRE 2012), Ixtapa-Zihuatanejo, Guerrero, Mexico, June 10-15, 2012

- Chemo-selective catalytic conversion of glycerol as a bio-renewable source for oxygenated additive for the diesel fuel, *N Viswanadham, Sandeep K Saxena, Devaki Nandan, P Sreenivasulu, Basant Kumar and MO Garg*

International Refining and Petro-chemical Conference (IRPC), Mico – Milano Congressi, Milan, Italy, June 12-14, 2012

- Transportation fuels and petro-chemicals from waste polyolefins, *Sanat Kumar, H U Khan, Manisha Sahai, Ajay Kumar, SM Nanoti and MO Garg*
- Production of virgin oil from used oil—an innovative eco-friendly technology, *U C Agarwal, Manoj Kumar, Manoj Srivastava, SM Nanoti and MO Garg*

Colloquia and Talks

- Mr Sandip Biswas, Scientist, 'Development of Regenerative Process for SO₂ Removal from SRU Tail Gas Streams', April 4, 2012
- Dr Y K Sharma, Senior Principal Scientist, Dr Dr Manoj Srivastava, Principal Scientist, Dr P Nagendramma, Technician, Mr Manoj Thapliyal, Technical Officer, Mr Anand

Singh, Sr Technical Officer, 'Proceedings of the 9th International Symposium on Fuels & Lubricants (ISFL)' (held at New Delhi on March 5 - 7, 2012), April 19, 2012

- Mr L Robindro, Senior Scientist, 'Sustainable E-mobility using Renewable Energies – A Concept Towards Hybrid Electric Vehicle (HEV) Technology', May 10, 2012
- Dr M O Garg, Director, 'What does technology mean!' - May 11, 2012
- Dr Anshu Nanoti, Senior Principal Scientist, Dr Manoj Srivastava, Principal Scientist, Dr Deepti Agrawal, Scientist and Mr Deeptarka Dasgupta, Scientist, 'Proceedings of the International Conference on Refining Challenges – Way Forward' (April 16-17, 2012) and 'Proceedings of the 3rd International Symposium on Bio-fuels and Bio-energy (April 19-20, 2012)', May 17, 2012
- Mr Ajit Soundankar, Application Engineer, 'Introduction to Gas Chromatography and Applications', May 29, 2012

MoU's/AGREEMENTS SIGNED

Within India

- With the Kendriya Vidyalaya Sangathan for transfer of 5 acres of the CSIR-IIP's land to the KV-IIP



MoU with the KVS : Dr Garg exchanges documents with Mr R B Singh, Deputy Commissioner of the KVS. Others present are (L-R) : Dr Charu Sharma, KV & Mr V K Kaushika, CoA, CSIR-IIP

- With BPCL, Mumbai for developmental activity on characterization scale-up and commercialization of new ammonical water-soluble fixed-bed sweetening catalyst for gasoline/ kerosene/ATF



MoU with M/s BPCL. Mr P S Viswanthan, Dy GM (R&D), BPCL & Mr B M Shukla, Head, RPBD, CSIR-IIP exchange documents. Others (L-R) Dr S M Nanoti, Dr D T Gokak, Sr Manager, BPCL, Dr Bir Sain, Dr Gautam Das & Dr A K Chatterjee

- With the IOCL, Faridabad for promotion of education, research and innovation and to provide a model for academia-industry partnership for directing Research & Development on projects relevant to the industry, having high prospects of commercialization



MoU with the IOCL. Dr Garg exchanges documents with Dr R K Malhotra, Director (R&D), IOCL. Others (L-R): Dr S S V Ramakumar, IOCL, Dr D C Pandey & Mr B M Shukla

MoU's Abroad

- With the University of Alicante at Alicante, Spain on scientific collaboration for mutual benefit in carrying out Research & Development work
- With the Institute of Materials and Environmental Chemistry (IMEC), CRC, Hungarian Academy of Sciences, Hungary, to utilize mutual R&D facilities and expertise for scientific, collaborative R&D work and training of scientific manpower amongst researchers of CSIR/CSIR-IIP and IMEC in the area of renewable energy and bio-fuels

DISTINGUISHED VISITORS

- Mr K Gunasekar, Director (Technical & Projects) and Mr K Seshan Varatharajan, Manager (QA, R&D), Farabi Petrochemicals Company, KSA, April 4, 2012
- Mr Mahesh Marve, Senior Vice President, RIL, April 6, 2012
- Mr R Krishnamurthy, DGM and Mr B Sairam, Chief Manager, CPCL, April 10, 2012
- Mr M K Padia, Executive Director, Mathura Refinery, April 13, 2012
- Mr S Vasudeva, CMD, ONGC, as Chief Guest, CSIR-IIP Foundation Day, April 14, 2012
- Mr Upendra Bokare, Director (T), Paramount Ltd., Vadodara, April 24, 2012
- Mr Avinash Dixit, Commissioner, Kendriya Vidyalaya Sangathan & Principal, KV-IIP, in connection with the construction of the Kendriya Vidyalaya building at the CSIR-IIP, May 4, 2012
- Dr Sanket Goel, Associate Vice President (R&D), Mr Deepak Rai, Research Scientist and Mr Gurunadh V S S Velidi, Doctoral Research Fellow from UPES and a delegation consisting of Dr Sebastian M Watia, Dr Julius M Mwabora and Mr Wafula James from the University of Nairobi, Kenya, May 4, 2012

- Mr Debashish Dey, Managing Director, Yew Petro-products Pvt. Ltd., Dinajpur (WB), May 4, 2012
- Mr Ajay Khanuja, Managing Director, Ranol Lubricants Pvt Ltd, Dhar, MP, May 10, 2012
- Mr Nitin R Gokarn, Joint Secretary, Ministry of Road Transport & Highways, New Delhi, to attend the first meeting of the Scientific & Technical Advisory Committee on Automotive Fuels and Lubricants, May 14, 2012
- Mr N Krishna Kumar, Director, Eco-care Bio-lube India Pvt Ltd, Coimbatore, May 14, 2012.
- Mr Neeraj Tiwari, Jubilant, May 16, 2012
- Mr P K Pal, Executive Director; Mr M V Ravi Someswarudu, GM; Mr Parvesh Chugh, CM and Mr Nand Kumar, Sr Mgr, GAIL, May 28, 2012
- Dr D M Kale, Dr Prabhu & Dr Anil Bhardwaj, ONGC Energy Centre, June 6, 2012
- Mr S Natrajan, Sr Manager (Development), CPCL, June 21, 2012.
- Mr K N Deepak, Managing Director; Mr G S Baveja, VP (Business Development), NEXTGEN Oil Gas Pvt Ltd, Mumbai, June 27, 2012

INTERNATIONAL VISITS

- Dr Savita Kaul, Senior Scientist, visited the USA to present papers at the 103 AOCs Annual Meeting & Expo and 67th Annual Meeting of Society of Tribologists and Lubrication Engineers at Long Beach, California, She held discussions at the University of Missouri and the Illinois University, April 29 – May 9, 2012
- Dr M O Garg, Director and Dr Sanat Kumar, Senior Scientist, visited Milan, Italy to attend the Third Annual International Refining and Petro-chemical Conference (IRPC – 2012), June 12-14, 2012. Dr Sanat Kumar presented a paper while Dr M O Garg, Director, chaired a session at the conference.

HRD/AWARENESS EVENTS

Programmes at the HRDC (CSIR), Ghaziabad

- Mr G C Bahuguna, Sr Technical Officer; Mr M S Negi & Mr Rajeev Panwar, Technicians, Training Programme on Competency Development of Group-II Personnel, April 11-14, 2012
- Rohit Kumar and Ms Rashmi, Technical Assistants, Orientation Training Programme for Technical Group III Personnel, June 25 - 29, 2012

Other Programmes

- Mr Deeptarka Dasgupta, Scientist, Introduction to Systems and Synthetic Biology for Scientists and Engineers, IIT-Bombay, April 30 - May 3, 2012
- Mr Umesh Kumar, Mr Subham Paul, Scientists and Ms Pooja Yadav, Technical Assistant, 7th Summer School on Petroleum Refining & Petro-chemicals, organized by the Petrotech Society, IIPM, Gurgaon, June 4-8, 2012

EXPOSURE OF STUDENTS TO OUR SCIENTIFIC INTELLECT & INFRASTRUCTURE

Visits of students/different groups of students/cadets from the following institutions/colleges:

- Shivalik College of Engineering, Dehradun, April 11, 2012
- Archaeological Survey of India Science Laboratory, Dehradun along with faculty members, May 2, 2012
- Indian School of Mines, Dhanbad, May 24, 2012

PARTICIPATION IN CONFERENCES/ SEMINARS/ WORKSHOPS

- Dr Manoj Srivastava, Principal Scientist, 'International Conference on Refining Challenges – Way Forward' organized by the Petrofed and the World Petroleum Council, April 16-17, 2012
- Ms Deepti Agarwal and Mr Deeptarka Dasgupta, Scientists, '3rd International Symposium on Bio-fuels and Bio-energy', organized by the Petrofed, New Delhi, April 19-20, 2012
- Dr Lalita Bakaya, RMO, '1st International Infertility & OBG Conference 2012' organized by the Gynaecological & Obstetrical Society of Dehradun, April 19-22, 2012
- Dr S M Nanoti, Dr D K Adhikari, Dr Alok Chatterjee, Chief Scientists; Dr S K Sharma, Dr S S Ray, Senior Principal Scientists; Dr Savita Kaul, Dr Anil Sinha, Dr Manoj Srivastava, Dr P Vijayanand, Principal Scientists; Dr Suman Lata Jain, Dr Samir Maity, Dr Sanat Kumar, Dr T Bhaskar, Dr Rajaram Bal and Dr O P Khatri, Senior Scientists, 'Prof CNR Rao Lecture', Wadia Institute of Himalayan Geology, Dehradun, May 17, 2012

CSIR-IIPians AS ORATORS & MODERATORS

- A lecture series on 'Residence Time Distribution' was delivered by Mr S K Ganguly, Principal Scientist and PGRPE Co-ordinator at the CSIR-IIP to the undergraduate students of the Department of Chemical Engineering at the BITS Pilani-Goa Campus through video conferencing. The series was delivered in 2 units of 1 hour duration each on 23rd April & 25th April 2012. The audience comprised of 52 undergraduate students.
- Dr M O Garg, Director, delivered a lecture in the session on 'Extraction Technology – Applications in Refining Technology and Pinch Analysis' of the 'Summer School Programme on Petroleum Refining & Petro-chemicals' at the Indian Oil Institute of Petroleum Management (IIPM), Gurgaon, June 5, 2012
- Dr M O Garg, Director, chaired a session at the 'International Refining and Petro-chemicals Conference (IRPC) 2012' at Milan, Italy, June 13, 2012. He also presented a paper entitled 'Produce Virgin Oil from Used Lube Oil – An Innovative Eco-Friendly Technology'

ANTI-TERRORISM DAY, MAY 21, 2012

- May 21, the death anniversary of the former Prime Minister,

Mr Rajiv Gandhi, who became a victim of an act of terrorism, is observed as Anti-Terrorism Day. An Anti-Terrorism Pledge was administered on the staff on this day.

IMPORTANT MEETINGS

- The meeting of the Lab-Level Task Force Committee was held on April 30, 2012 to review the progress of the ERP implementation in the CSIR-IIP under the Chairmanship of Dr M O Garg, Director. Others who attended the meeting were Mr V K Kaushika, CoA; Mr U C Agrawal, Dr S M Nanoti, Mr B M Shukla, Dr S K Sharma, Mr Suresh Pant, Mr V K Kukreti, Mr Prasoon Kumar and Mr Mukesh Kumar Gairola
- The Six-monthly Internal Quality Audit as per the ISO mandate was held between May 3-4, 2012

HEALTH-CAMPS

- A camp for Vaccination Against Typhoid was organized by the CSIR-IIP Medical and Health-Care Centre, April 23, 2012.

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• 37ohavkarfj d fgnh oKkfud I ँकS[Bh] 20 तुज 2012

I ँFkku ds jktHkk"kk vuqkx }kjk vk; kstr bl =ekfI d I ँकS[Bh ea MKO jktdekj fl g us' l kFM; e dckdDI h eFky I sygkst eaSEM EDX ij vk/kkfjr ifrLFkku i fMxh ds fu/kkZ .k dh , d ubZ fof/k*(MKO mesk dekj us 'Oksks mRi g d% ekfyd xqk , oa vuq z; kx*(I qh iuk ; kno us 'vif'k'V ty I s cdtkby , Ydkgkly dh i q% kflr*(MKO nhlr vxok us ^t b I DI fud vEy mRi knu* rFkk Jh eR; q; dekj 'kpy us' j Lorh unh% , d Hku&oKkfud I oqk.k* fo" k; kai j cLrq; ; kanha

• 'जक्तहककक fgnh fof'k'V 0; k[; kueky&12ok; i qi'] 29 तुज 2012

'जक्तहककक fgnh fof'k'V 0; k[; kueky* ds 12oa 0; k[; ku dk mn?kkVu d jrsqg Jh fot; dekj dks'kd] i zkkI u fu; a-d usdgt fd bu 0; k[; kuka dsvk; kst u I sl ँFkku us jktHkk"kk dk; kO; u ds {ks-eavi uh fof'k'V i gpku cukbzgSA vkt ge vf/kdka k i=kpkj] fVli .k ys[ku vkfn dk; Z[ky d j fgnh ead j usyxsga

dk; De dk I pkyu d jrsqg cHkjh] jktHkk"kk vuqkx MKO fnu sk pinz pekyk us dgk fd vupkn Kku&foKku dk I rq vqS Kku dh vfhko; fDr dk ek; e ga Hkjr; Hk"kvkaea, d&nI jsl subV; i kus dsfy, Hh vupkn i ki fxd ga

ed; vfrfk i ko d" .k dekj xklokeh] i z; kr Hk"kk&oKkfud] fnYyh us 'vupkn vqS Hk"kk&foKku* fo" k; ij viuk fo'Ukki wkZ vqS I kjxflr 0; k[; ku fn; kA i ko xklokeh us fgnh ds I nhkz ea I kfo/kkfud mi calka/kkj k 343&351% dh pplz d jrsqg crk; k fd fgnh ds rhu fof'k'V I nhkz g&t uinh;] jk"Vh; vqS varjzVh; A t uinh; I nhkz eafgnh ns k ds nl fgnh&Hk"kh jkT; ka ea iz Dr ga jk"Vh; I nhkz eafgnh ds nksLo: i g&jk"VHk"kk o jktHkk"ka t gka



jk'tHkk'kk fof'k"V 0; k[; krk i k0 d".k d'ekj xkLokh

jk'VHkk'kk I k'kdfrd prukj I kekftd&l k'kdfrd igpku vls I a dZ Hkk'kk ds: i eans'k dsfofHku fgLI kaeavi usof'k"V Lo: i kae' tS s nD[kuh fgnh ds: i eai; qR gS oghajktHkk'kk ds: i ea; g I jdkj o turk dschp I a dZ&Hkk'kk ds: i eai; qR gA varjZVh; I anHkka'ea t'gk; , d vls fgnh ekj'kl] fOth] I ghuke vkfn ns kka'ea Hkj roa'kh yk'ka dh Hkk'kk ds: i ea 50&70 ifr'kr yk'ka }kjk viuh I kekftd&l k'kdfrd igpku ds: i eai; kx dh tkrh gS ogharv jh vls fgnh vi us varjZVh; I anHkka'ea vU; ns kka'ea v/; ; u dh Hkk'kk ds : i eagsvls 150 ns kka'ea i <kbZ tkrh gA i k0 xkLokh us i z kkl fud] oKkfud] I p'kj] okf.kT; tS s {k=kaeai; qR gkusokyh fgnh dsfof'k"V Lo: i kadh ppkZdjrsqg dgk fd ; g Hkk'kk dk 'iz qDr* %register% i {k gSfd , d 'kcn ds vxy&vyx I anHkka'ea vxy&vyx vFkZ gkrs gA 'iz qDr* Hkk'kk dh , d fo'ksk 'kSyh gkrs gS tS s I kekftd 'kSyh] I j'pukRed 'kSyh vkfnA i k0 xkLokh us j'q'kkidr fd; k fd igys vu'pkn ek= /kfeZd i qrdka vkfn ds gkrs FkS ml ds ckn dyk {k= vFkZ-dfor] dgkuh] mi U; kI vkfn ds vu'pkn gq vls vc oKkfud i qrdka vkfn ds Hkh vu'pkn gksjsgaf tI dsfy, fof'k"V 'kcnkoyh dk fodkl fd; k tkrk gA

I LFku&i f'okj ds l ekpj

¼d½ I LFku&i f'okj ea of)

ubZ fu; qDr; k;

oKkfud&l eng iv ¼2½

- MKWhe's k d'ekj 09-04-2012
 - MKWv'clj ckM'kykZ 01-06-2012
 - MKW'ku'; ke BDd]j] ofj "B rduhdh vf/kdkjh ¼2½ ¼v'kj , e vksZ 04-06-2012
- gkfn'd vfHkku'nu!

¼k½ i nkt'ufR; k;

ofj "B c/kku oKkfud I seq[; oKkfud

- MKW'kb ds'kekZ 01-02-2011
 - MKW'hi d VMu ¼ d'kuoRr½ 01-02-2011
- ofj "B vk' kfyfi d I s'uth I fpo
- Jh c'rk i fl g'pk'ku 15-05-2012
- c/kkb; k!

¼x½ I LFku&i f'okj I s fonkbZ

vf/kof'k'k i j I ok&fuofRr

30 v'c'Sy] 2012

- MKW , u xkLokh] eq[; oKkfud
 - MKW'eghzi ky] eq[; oKkfud
- 31 eb]Z 2012
- Jh , ds, xy] ofj "B c/kku oKkfud

HkkoHkhuh fonkbZ

¼x½ I ok ea foLrkj

MKW Mh ds vf/kdkjh] eq[; oKkfud dks oS'kSvi ds i = Ia 4&38@16@2011&i hMh fnukad 19-04-2012 ds vu'q kj vf/kof'k'k i j I d'kuoRr dh vi uh frf'k vFkZ-fnukad 30-4-2012 ds mi j'kr vxy s nks'o'kkadh vof/k rd I ok ea foLrkj fn; k x; k gA

c/kkb; k!

TRAINING CALENDAR FOR THE YEAR 2012-13 – AUGUST 2012 ONWARDS (TENTATIVE)

Title of Programme	Organization to be benefitted	Duration	Planned Dates
Petroleum Refining Technology	IOCL, New Delhi	7 weeks	August 13 – September 29, 2012
Vehicular Pollution	MRTH, New Delhi	1 week	September 10– 14, 2012
Analysis of Petroleum & Petroleum Products	Different Refineries	2 weeks	October 2012
Petroleum Refining Technology	Different Refineries	3 weeks	October 1- 19, 2012
Petroleum Refining Technology	IOCL, New Delhi	7 weeks	November 26 – January 11, 2013
Laboratory Practicals	NTPC, NOIDA	2 weeks	December 24 – January 4, 2013
Laboratory Practicals	NTPC, NOIDA	2 weeks	January 7-18, 2013
Vehicular Pollution	MRTH, New Delhi	1 week	January 14-18, 2013
Advance Programme on 'Petroleum Refining Technology & Related Aspects '	Different refineries	1 week	February 2013
Automotive & Industrial Lubricants	User industries	3 days	February 2013

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 Phone No. : +91-135-2660205, Fax : +91-135-2660098, E-mail: director@iip.res.in, Website : www.iip.res.in
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