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CSIR - IIP NEWSLETTER



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An in-house bulletin of CSIR - INDIAN INSTITUTE OF PETROLEUM, Dehradun

CSIR FOUNDATION DAY, SEPTEMBER 27, 2012

The Institute celebrated 70 successful years of the Council of Scientific & Industrial Research (CSIR) on 27th September under the theme "CSIR@70". Established in 1942, the Council, with its 38 laboratories and 39 field stations spread all across the country, manned by around 8000 scientists and engineers and 10,000 technical support personnel, provides globally competitive R&D technologies and assistance practically in all socio-economic and



Mr R S Butola initiating the Foundation Day proceedings. Others on the podium: Dr Y K Sharma, Dr R K Malhotra, Mr V K Kaushika, Dr M O Garg and Ms Sheetal Bandhu

strategic sectors from aerospace to agriculture and from chemicals to mines, minerals and materials. CSIR-Indian Institute of Petroleum, being one of the premier constituent laboratories of CSIR, carries out research and development for downstream sector of the hydrocarbon industry.

CSIR is driving and delivering S&T innovation, as also creating prosperity for the people while protecting the planet. Seventy successful years of CSIR have generated knowledge, created value, strengthened research capabilities, nurtured and groomed world-class talent and actively fostered synergies in Indian research through S&T leadership. In the decade of innovation (2000-2010), CSIR is all set to emerge as an excellent S&T global leader by pursuing nation-centric, knowledge-intensive, innovation-driven, globally bench-marked, inclusion-focussed, values and ethos-based service to the nation.

CSIR-IIP, one of the prestigious laboratories under the umbrella of the CSIR, has contributed tremendously to the development of the hydrocarbon industry. Several technologies have been developed and commercialised, as a result of which every

A word from the Director...

Following the meeting of the Scientific Advisory Committee of the Ministry of Petroleum & Natural Gas, we at CSIR-IIP have also hosted the meetings of the Standing Committee on Implementation of Emission Legislation as well as of Central Motor Vehicle Rules – Technical Standing Committee in this quarter. Thus, CSIR-IIP can boast of having hosted two national-level meetings now : one for the hydrocarbon and the other for the automotive sector.



CSIR completed 70 glorious years of its contributions to the development of the nation on 26th September, 2012. Mr R S Butola, Chairman and Managing Director, Indian Oil Corporation Ltd. and Dr R K Malhotra, Director, R&D (IOCL), joined us in celebrating this event to make it a memorable one. Our Research Council met for its 30th meeting and reviewed the progress of research in the Institute.

The Institute continues to make all-round progress in terms of research activities, presentations in national conferences as well as publications in esteemed journals, filing & sealing of patents and signing of agreements with national and international organizations.

It is a matter of great sorrow and grief that our beloved former Minister for Science & Technology and Earth Sciences and Vice President, CSIR, Shri Vilasrao Deshmukh, is no more. During his tenure, he made outstanding contributions to CSIR including his stellar role in creating AcSIR. We still fondly remember his visit to the Institute on 1st November, 2011.

May the noble soul rest in peace.

• Dr M O Garg

refinery has either a technology or a product developed by CSIR-IIP in use. The Institute is also providing active support to the oil industry in providing necessary skills by designing and organising high-level training courses. It is a matter of great pride for the Institute that most of the senior persons in the oil industry have undergone training here.

The CSIR Foundation Day function was held in the Dr Lovraj Kumar Auditorium. Mr R S Butola, Chairman & Managing Director, IOCL, was the Chief Guest while Dr R K Malhotra, Director (R&D), IOCL, was the Guest of Honour. Dr M O Garg Director, CSIR-IIP, welcomed the guests and apprised the audience how the pace of



The Chief Guest flanked by the other dignitaries

industrialization had found a boost through the 38 laboratories and 39 field stations of the CSIR. He spoke about the role played by the CSIR and CSIR-IIP in the development of the country.

Addressing a gathering of all the employees comprising the Institute's retirees, research-fellows, pool-officers, trainees, project staff etc., Mr Butola stressed on the need to implement long-term strategies to ensure fuel supply in future. Energy is important for the development of the nation, especially cheap and sustainable energy. Research on alternate sources of energy, e.g. solar, bio-, non-conventional and nuclear, is the need of the hour to ensure energy supply equal to its demand. Fuel supply in the future is a constant global concern. Traditional sources of energy have been reduced to a limit. The main reason behind this is the insufficiency of storage of crude oil. It is necessary to develop alternate sources of energy and the CSIR-Indian Institute of Petroleum can take effective action in this direction by developing new technologies, he said.



Mr Butola speaking out his mind

Dr R K Malhotra, in his address, underlined the need to speed up research activities for technological development. He pointed out that India ranks third as a carbon-emitting nation after the USA and China. In this light, long-term strategies for future supply need to be worked upon. He also suggested that the experts from the IOCL and the CSIR-IIP could team up to conduct research in petro sector. Technologies addressing the need to deal with heavy, acidic and high sulphur content crude oil need to be developed, he said.

Dr Y K Sharma, Chief Scientist, IIP, and Chairman, Celebration Committee, also spoke about the aims of the CSIR.

Honouring the Employees

On this occasion, the CSIR-IIP employees who superannuated in the preceding year since the last CSIR Foundation Day, as well as those having completed 25 years of service, were honoured with a shawl and a memento.

CSIR Studentship

As per CSIR tradition, children of the employees of the Institute, viz. Master Akshay Nanoti s/o Dr Anshu Nanoti, Senior Principal

Scientist and Dr S M Nanoti, Chief Scientist, and Master Akshay Gupta, s/o Dr J K Gupta, Principal Scientist (Retd.), were awarded with the CSIR Studentship. This is awarded to the children of the employees of the CSIR or its national laboratories/institutes scoring 90% or above in three science subjects in class 12th Board examination of the just concluded academic year. Mr Butola gave away cheques (₹ 3,000/- each) to these students.

The function was conducted by Dr Dinesh Chamola, Sr. Hindi Officer, while the vote of thanks was given by Mr V K Kaushika, Controller of Administration.

Green Operation

'CSIR@70' also envisioned a 'Green Operation' for the CSIR's national laboratories and institutes beginning on its 70th Foundation Day. This was observed with a plantation drive at the CSIR-IIP. The CSIR has now adopted the maintenance & sustenance of the eco-system along with the maintenance of greenery as its target along with science & technology.

Sports Event

Carrom competition was also organized in view of the 70th CSIR Foundation Day celebrations. Details are elsewhere in this issue.

Inauguration of the Modernized Knowledge Resource Centre (KRC)

The Chief Guest also inaugurated the newly refurbished and modernized Knowledge Resource Centre (KRC) of the Institute on this occasion.



Mr Butola unveils the inaugural plaque of the Knowledge Resource Centre

SCOE and CMVR-TSC MEETINGS

CSIR-IIP hosted meetings of the Standing Committee on implementation of Emission Legislation (SCOE) and meeting of the Central Motor Vehicle Rules-Technical Standing Committee (CMVR-TSC) on July 9, 2012.

Around 60 participants from various Ministries, ARAI, Members of the Society of Indian Automobile Manufacturers (SIAM), Emissions Control Manufacturers' Association (ECMA) and other industry experts attended both the meetings. These meetings were convened by Mr Srinivas and Mrs Rashmi Urdhwarshesha,

Automotive Research Association of India (ARAI), Pune. Some of the agenda points deliberated upon in the meeting of the Standing Committee on Emission Legislations (SCOE) were: rules for replacement of catalytic converters, introduction of audit systems for PUC centres, hydrogen and hydrogen CNG (HCNG) as an automotive fuel, discussion on consultation documents for Fuel Efficiency Norms to be prepared by the Bureau of Energy Efficiency (BEE), applicability of diesel engine emission norms for engines not covered under the CMVR/MoEF certification, updating of Indian Driving Cycle (IDC) for two- and three-wheelers, etc.



Members of SCOE and CMVR-TSC pose together

RESEARCH COUNCIL MEETING

The 38th Research Council Meeting, on August 30-31, 2012 was chaired by Prof D V Khakhar, IIT-Mumbai, and attended by Mr Anand Kumar, PETROTECH, New Delhi; Prof I M Mishra, IIT-Roorkee; Mr P Padmanabhan, BPCL, Mumbai and Mr Pramod Kumbhar, VP, Praj Industries.



Prof D V Khakhar (second from right) presides over the RC meeting; Dr M O Garg sits next to him

RESEARCH ACTIVITIES

Sponsored Projects Taken Up

- Testing of ISO HV-68 and VG-32 oils to carry out physico-chemical analysis of Turbine Governor (HV 68) and Bearing (VG 32)
- Studies of fresh and used oil samples SU30-MKI
- Studies on value addition of NGL through production of Rubber Solvent
- Development of catalyst for production of Syngas from CO₂ and methane
- Technology development for adsorbed natural gas
- Development and commercialization of new ammoniacal water-soluble fixed-bed sweetening catalyst

- Procedure of laboratory analysis for supportive data generation on CSIR-IIP? EIL? NRL SO₂ recovery process to prepare BDEP
- Crude preheat maximization study for CDU-I and II of HPCL (V)
- Detailed technical evaluation of Guwahati Refinery – Residual Crude Oil (RCO) for production of paraffin & microcrystalline waxes
- Lubricity testing on a diesel sample
- Evaluation of FRHF samples
- Evaluation of fuel economy and emissions on diesel and gasoline passenger cars using a special lubricant formulation and fuel additive
- Study on deposit characteristics of two motorcycle engine components
- Comparative testing and analysis of Russian and Indian hypoid oil in M18/ MI17 IV Helicopter
- Evaluation of liquid hydrocarbon samples
- Evaluation study of Mangala crude
- Studies of wash oil samples (hydrocarbons)
- Testing of fuel sample derived from waste plastic

Sponsored Projects Completed

- Preliminary evaluation of Py-Oil of M/s UOP

RESEARCH OUTPUT

Papers Published

- A search for eco-friendly detergent/dispersant additives for vegetable oil-based lubricants, *A K Singh and Raj Kumar Singh*, Journal of Surfactants and Detergents, 15(4), 399-409, July 2012
- Evaluation of *Chlorella minutissima* oil for biodiesel production, *Savita Kaul, Rahul Jain, Sivakumar Konthala, Dinesh Bangwal, Neeraj Atray and Basant Kumar*, Journal of ASTM International, 9(5), JAI104322, 6 pp, May 2012
- Optimization of biodiesel production by response surface methodology and genetic algorithm, *Richa Singhal, Prateek Seth, Dinesh Bangwal and Savita Kaul*, Journal of ASTM International, 9(5), JAI104328, 7 pp, May 2012
- Synthesis and electro-chemical, optical, and thermal properties of polycarbosilanes with silylene-vinylene-phenylene-vinylene backbones and triphenylamine or carbazole unit-containing side chains, *Hiroshi Yamashita, Yoshitada Suzuki, Tumula Venkateshwar Rao and Yuko Uchimar*, Journal of Organo-metallic Chemistry, 710, 59-60, July 2012
- UV-induced covalent assembly of gold nanoparticles in linear patterns on oxide-free silicon surface, *O P Khatri, T Ichii, K Murase and Sugimura*, Journal of Material Chemistry, 22, 16546-16551, August 2012
- Copper (II) trans-bis-(glycinato): an efficient heterogeneous catalyst for cross-coupling of phenols with aryl halides, *Sanny Verma, Neeraj Kumar and Suman L Jain*, Tetrahedron Letters, 53(35), 4665-4668, August 2012
- Multiple Oxo-Vanadium Schiff base containing cyclotriphosphazene as a robust heterogeneous catalyst for

regioselective oxidation of naphthols and phenols to quinines, *Praveen K Khatri and Suman L Jain*, *Catalysis Letters*, 142(8), 1020-1025, 2012

- Biopolymer templated porous TiO₂: an efficient catalyst for conversion of unutilized sugars derived from hemicelluloses, *Sudipta De, Saikat Dutta, Astam K Patra, Bharat S Rana, Anil K Sinha, Basudeb Saha and Asim Bhaumik*, *Applied Catalysis A: General*, 435-436, 197-203, September 2012
- The instability of storage of middle distillate fuels: a review, *YK Sharma*, *Petroleum Science and Technology*, 30(17), 1839-1850, September 2012
- Covalent assembly of silver nanoparticles on hydrogen terminated silicon surface, *O P Khatri, Takashi Ichii, Kuniaki Murase, Masayuki Kanehara, Toshiharu Teranishi and Hiroyuki Sugimura*, *Journal of Colloid and Interface Science*, 382, 22-27, September 2012
- Effective catalytic conversion of cellulose into high yields of methyl glucosides over sulphonated carbon-based catalyst, *Sambha Dora, Thallada Bhaskar, Rawel Singh, D V Naik and D K Adhikari*, *Bioresource Technology*, 120, 318-321, September 2012
- Room-temperature selective oxidation of cyclohexane over Cu-nanoclusters supported on nanocrystalline Cr₂O₃, *Bipul Sarkar, Pragati Prajapati, Rahul Tiwari, Ritesh Tiwari, Shilpi Ghosh, Shankha Shubhra Acharyya, Chandrashekar Pendem, Rajib Kumar Singha, L N Sivakumar Konthala, Jagdish Kumar, Takehiko Sasaki and Rajaram Bal*, *Green Chemistry*, 14(9), 2600-2606, September 2012
- Combined thiourea dioxide-water: an effective reusable catalyst for the synthesis of polyhydroquinolines via Hantzsch multicomponent coupling, *Neeraj Kumar, Sanny Verma and Suman L Jain*, *Chemistry Letters*, 41(9), 920-922, September 2012
- TiO₂-ZrO₂ binary oxides for effective hydrodesulphurization catalysts, *Rahul Tiwari, B S Rana, R Kumar and A K Sinha*, *Open Catalysis Journal*(Bentham Science Publishers Ltd), 5, 39-49, September 2012

Patent(s) Sealed Abroad

- A process for preparation of P-toluic acid by liquid phase oxidation of P-xylene in water, *M P Saxena, A K Gupta, S K Sharma, D P Bangwal and Krishan Kumar*, *Japan*, Patent No. 2008-503684, dt. 21.06.2012
- A composition and process for insulating fluid, *A K Singh, N K Pandey and A K Gupta*, *China*, Patent No. CN101326592B, dt. 04.07.2012
- A process for preparation of P-toluic acid by liquid phase oxidation of P-xylene in water, *M P Saxena, A K Gupta, S K Sharma, D P Bangwal and Krishan Kumar*, *China*, Patent No. ZL200580049287.6, dt. 11.07.2012
- A process for preparation of P-toluic acid by liquid phase oxidation of P-xylene in water, *M P Saxena, A K Gupta, S K Sharma, D P Bangwal and Krishan Kumar*, *Taiwan*, Patent No. 1368607, dt. 21.07.2012
- Strain and a novel process for ethanol production from

lignocellulosic biomass at high temperature, *D K Adhikari, Sachin Kumar, C D Sharma and Deep Chand*, *USA*, Patent No. 8,268,600 B2, dt. 18.09.2012

Patent(s) Sealed in India

- Process for oxidative desulphurization of liquid hydrocarbon fuels by using carboxylic acid-alkali metal peroxoborate as oxidation system, *Bir Sain, T V Rao, B R Nautiyal, S M Nanoti, Y K Sharma, M O Garg and A K Gupta*, *Application No. 253487*, dt. 25.07.2012

Patent(s) Filed Abroad

- A process for conversion of bioethanol into gasoline, *N Viswanadham and Sandeep K Saxena*, *USA*, *Application No. 13/619608*, dt. 14.09.2012
- Sulfonated carbon silica composite material and a process for the preparation thereof, *N Viswanadham and Devaki Nandan*, *USA*, *Application No. 13/623775*, 20.09.2012
- An improved process for selective hydroxylation of benzene to phenol with molecular oxygen (air) over solid catalysts, *Rajaram Bal, Shankha Shubhra Acharyya, Shilpi Ghosh, Bipul Sarkar, K S Rawat and Chandrashekar Pendem*, *USA*, *Application No. 13/623653*, dt. 20.09.2012
- An improved process for preparation of Cu-Cr oxides for selective oxidation reactions, *Rajaram Bal, Bipul Sarkar, Shankha Shubhra Acharyya, Shilpi Ghosh, Chandrashekar Pendem and Jagdish Kumar*, *USA*, *Application No. 13/623618*, dt. 20.09.2012

Patent(s) Filed in India

- Consolidated bio-processing of lignocellulosic biomass for L-lactic acid production, *D K Adhikari, Jayati Trivedi and Deepti Agrawal*, *Application No. 0115NF2012*, dt. 16.07.2012
- A novel process for the synthesis of hierarchical mesoporous silica, *N Viswanadham and Devaki Nandan*, *Application No. 0055NF2012*, dt. 23.08.2012
- A catalytic process to convert renewable feedstock into aromatics rich aviation fuel, *A K Sinha, Mohit Anand, Saleem Akthar Farooqui, Rakesh Kumar, R K Joshi, Rohit Kumar, B S Rana and Deepak Verma*, *Application No. 3039Del2012*, dt. 28.09.2012
- A process for upgradation of spent lubricating oil and its distillate, *M O Garg, Manoj Kumar, Manoj Srivastava, Sunil Kumar and S M Nanoti*, *Application No. 3040Del2012*, dt. 28.09.2012

TRAINING PROGRAMMES ORGANIZED

Programmes on Petroleum Refining Technology

- Programme for Chemical Engineers of the IOCL, New Delhi, August 13 – September 28, 2012

Other Training Programmes

- Training programme on 'Operation and Maintenance of CFR Engines' for Executives of Different Refineries, July 23-August 3, 2012



Faculty and trainees of the programme dated July 23-August 3, 2012

SERVING THE INDUSTRY

S&T Services

- Investigation of oil sample using FTIR technique for M/s Yamaha Motor Pvt. Ltd., NOIDA
- Testing of FRHF sample for M/s Fuch Lubricant (India) Pvt. Ltd., Kolkata

EXCHANGE OF KNOWLEDGE

Papers Presented in Conferences/Seminars

CAT4BIO International Conference on Advances in Catalysis for Biomass Valorization, Thessalonki, Greece, July 8-11, 2012

- Energy-efficient process for algae valorization, *Richa Singhal, Dinesh Bangwal, Manan Dave, Jani Jagat M, Shradha Singhal, Savita Kaul and DK Adhikari*

2nd Indo-French Symposium on Catalysis for Sustainable and Environmental Chemistry, Lille University, France, July 11 - 13, 2012

- Process for *Jatropha* oil conversion to diesel and kerosene, *Rohit Kumar, B S Rana, R Kumar, RK Joshi and AK Sinha*

17th Refinery Technology Meet (RTM), Bangalore, July 18-20, 2012

- Design of a solvent recovery section of a grassroots deoiling unit based on physical insights, *Sunil Kumar, SM Nanoti and MO Garg*
- Commercialization of indigenously developed "Advanced Soaker Visbreaking Technology" at HPCL Vizag Refinery, *MO Garg, UC Agarwal, Deepak Tandon, Satya Niketan Yadav, YK Sharma, Sunil Kumar, SM Nanoti, S Handa, Suma Mathew, S Bharathan, M Jagannadha Rao and Iman Ghosh Dastidar*
- Use of low-level heat to increase crude preheat: an application of advanced pinch concepts, *MO Garg, Sunil Kumar and SM Nanoti*
- Process optimization of a conventional Lube Extraction Unit, *MO Garg, UC Agarwal, SM Nanoti, Manoj Srivastava and Manoj Kumar (CSIR-IIP), M Konde, D S Laud, M Joshi & Garima Singh (HPCL Mumbai Refinery)*
- Renewable aviation fuels using hierarchical nanostructured catalysts, *R Kumar, B S Rana, R Kumar, RK Joshi and AK Sinha*
- Renewable Energy from Biogas, *Anshu Nanoti, Soumen Dasgupta, Aarti Arya, Swapnil Divekar, Nilesch Gode, Amar N Goswami and MO Garg*
- Successful international collaboration leading to development of green technologies, *Anshu Nanoti, Soumen Dasgupta, Aarti Arya, Swapnil Divekar, A N Goswami and MO Garg*

Sixteenth National Congress on Corrosion Control, organized by the National Corrosion Council of India (NCCI), Kolkata, August 23-25, 2012

- Petroleum Naphthenic acidic corrosion, *R C Saxena and A K Chatterjee*

39th Leeds-Lyon Symposium on Tribology, Leeds, UK, September 4-7, 2012

- Mathematical modelling of piston ring linear tribosystem, *G D Thakre and MR Tyagi*

International Conference on Chemical Constellation: Cheminar-2012 (CCC-2012), Dr BR Ambedkar NIT, Jalandhar, September 10-12, 2012

- Converting corn cobic waste biomass into methylcellulose: a thickener, *Raj Kumar Singh*

Oil Spill India 2012-International Conference & Exhibition, organized a by iTEN Media Pvt. Ltd, Goa, September 13-15, 2012

- Microbial oil spill management in sea, *DK Adhikari*

Colloquia and Talks

- Dr Savita Kaul, Principal Scientist, 'Talk on the visit to the USA to attend
 - the 103 AOCs Annual Meeting & Expo,
 - 67th Annual Meeting of the Society of Tribologists and Lubrication Engineers (STLE),
 - visits to the Illinois and Missouri, Universities
- Mr Vipin Amoli, JRF, CSIR-IIP, 'Solid-State Dye- Sensitized Solar Cell', August 3, 2012
- Mr Wolfgang Betz, Marketing Director, M/s Physical Electronics, USA, 'New XPS Techniques', August 6, 2012
- Dr Ramani Sankaranarayan and Dr Geeta Vaidyanathan, CTx Green, Odisha, 'Village-level Biodiesel (VLB) Boot-Strapping Village Development', August 8, 2012
- Mr Angus Tsang, Asia Pacific Channel Manager, Bruker AXS Pte Ltd., Singapore, 'Latest Development in AFM Technologies for Nanoscale Characterization', August 22, 2012

MoU's/AGREEMENTS SIGNED

MoU's/Agreements Signed Abroad or with Foreign Concerns

- With the University of Missouri, USA for academic collaboration



Prof Robert Duncan of the University of Missouri, USA, exchanges Documents with Dr M O Garg

DISTINGUISHED VISITORS

- Mr M R G Rao & Mr Vikas Naval, Reliance Industries Ltd. and Mr Tanmay Taraphdar, Mr Sharath N Babu and M Praveen Mulkalwar, TECHNIP India Ltd., July 12, 2012
- Dr R S Hastak, OS & Director and Dr S Roy Choudhury, Scientist, NMRL, Ambarnath, Mumbai, July 17, 2012
- A delegation headed by Prof Robert Duncan and consisting of Prof Annette Sobel, Dr Kattesh V Katti and Dr Shibu Jose, from the University of Missouri, Columbia, USA, July 23-25, 2012
- Mr N D Tiwari, Ex-Chief Minister, Uttarakhand, July 26, 2012
- Mr A K Tyagi, Director (Com.), Mr S K Sharma, GM, Mr Shambhu Sharan, DGM and Mr G V Walimbe, MECON Ltd., July 28, 2012
- Mr Parvesh Chug and Ms Renu Sinha, GAIL, July 30-31, 2012
- Dr Ramani Sankaranarayanan, Lead Process Engineer & President and Dr Geeta Vaidyanathan, Team Leader, Community Initiatives, CTx Green VLB Resources Centre, Odisha, August 7, 2012
- Mr Shankar Sharan, CE (P), Marketing, Mr P K Jain, GM (Chemical) and Mr Yash Malik, Chief, Marketing, ONGC, August 31, 2012
- Mr Indranil Chakraborty, Deputy Director, Directorate General of Civil Aviation, New Delhi, September 14, 2012
- Mr Ghosh and Mr Mukherjee, IOCL, September 22, 2012

INTERNATIONAL VISITS

- Dr Suman L Jain, Senior Scientist, to Pukyong National University, S Korea for discussions and carrying out experimental work under an Indo-Korean project funded by the NRF, Korea and DST, July 9-18, 2012
- Dr A K Sinha, Principal Scientist, to France to present an invited paper at the 'Second Bilateral Indo-French Symposium on Catalysis for Sustainable and Environmental Chemistry' in Lille, France under the auspices of the CSIR-NCL and the UCCS, France, July 11-14, 2012
- Mr Swapnil Divekar, Scientist, to SINTEF, Norway, under the 'Indo-Norway Project on CO₂ Recovery from Power Plants,' sponsored by the MFA, Norway, September 1-30, 2012

HRD/AWARENESS EVENTS

Programmes at the HRDC (CSIR), Ghaziabad

- Mrs Geeta Chhetri and Ms Kusum, Sr Stenographers, 'Professional Skills Development Programme for PS's/ PA's/ Stenographers,' July 11-13, 2012

Other Programmes

- Mrs Poonam Gupta, Principal Scientist and Mr R K Chauhan, Senior Technical Officer, 'ISO9001:2008 Series QMS Auditor/ Lead Auditor Training Course', organized by the DNV, New Delhi, August 27-31, 2012

EXPOSURE OF STUDENTS TO OUR SCIENTIFIC INTELLECT & INFRASTRUCTURE

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

- Babasaheb Bhimrao Ambedkar University, Lucknow, July 26, 2012
- Rashtriya Indian Military Academy (RIMC), Dehradun, July 31, 2012
- Sant Kabeer Academy, Dehradun, August 24, 2012
- Deenbandhu Chhottu Ram University of Science & Technology, Murthal, Sonapat, September 28, 2012

PARTICIPATION IN CONFERENCES/ SEMINARS/ WORKSHOPS

- Dr M O Garg, Director; Mr U C Agarwal and Dr Deepak Tandon, Chief Scientists; Mr Prasenjit Ghosh and Mr Sunil Kumar, Scientists; Mr Swapnil Divekar, Junior Scientist, Mr B S Rana and Mr Nilesh Gode, '17th Refinery Technology Meet (RTM),' Bangalore organized by CHT, July 18-20, 2012
- Dr D K Adhikari, Chief Scientist, 'Oil Spill India 2012 International Conference & Exhibition,' sponsored by iTEN Media Pvt. Ltd., Goa, September 13-15, 2012

HEALTH-CAMPS

- A Free Blood Sugar Camp was organized to assess glycosylated haemoglobin in diabetic patients at the CSIR-IIP Healthcare Centre, August 29, 2012

IMPORTANT MEETINGS

- The 5th Periodic Audit of DNV was carried out for 'Development of Products & Processes & Evaluation and Testing of Petroleum & Its Products'. Lead Auditor was Dr Sanjeeva Singh, July 13, 2012

PGRPE ACTIVITIES

- Imparting expert advice

Mr Sudip K Ganguly, Principal Scientist & Co-ordinator, PGRPE, acted as one of the experts to telephonically answer questions on petroleum engineering studies posed by prospective students during a live TV programme on the 'Sahara Samay' TV Channel on July 27, 2012 at 3:30 p.m.

- Award of MTech Degree

The dissertations of the M Tech course in respect of the following students of the PGRPE 2010 batch were evaluated by the Thesis Committee consisting of Dr Raja Ram Bal, Dr Anil K Sinha, Dr D K Adhikari, Dr SK Singal, Mr SK Ganguly (PGRPE Co-ordinator), Dr S Tripathi (Thesis Coordinator) and Dr M O Garg, Director, CSIR-IIP:

- Mr Shashank Suman, Mr Neelam Naidu, Ms Jayati Trivedi and Ms Madhvi Gera.

These students were awarded M Tech Degree by the AcSIR on 26th September during a Convocation Ceremony held at the Vigyan Bhavan, New Delhi.

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INDEPENDENCE DAY CELEBRATIONS

The 66th Independence Day of the country was celebrated on August 15, 2012. Dr M O Garg, Director hoisted the Tricolour on this occasion. Essay and Drawing Competitions were organized for the children of the staff members on this occasion.

IN PICTURES: VISHWAKARMA POOJA, SEPTEMBER 17, 2012

Vishwakarma Pooja was organized on Spetember 17, 2012, followed by a community lunch.



Dr Garg accepts the salute on the Independence Day



Dr M O Garg offers Pooja



Some glimpses of the community lunch

राजभाषा-संबंधी गतिविधियां

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l l Fku ea vk; k}tr fd, tkus okys fgnh dk; Zela dhs pplZ d}rs gq iks nqkZ i l kn x}r] tkfe; k fefy; k bLykfe; k fo' ofo | ky; j nyYh us; gkafgnh ds ifr fo' eku iæ dh l jk gk dhA iks x}r us vl; Hk"kkvka dh ryuk eafgnh dh vi }k; k de mez ds gkrs gq Hk" bl dh JSB mi yf{/; ka dh ckr dgh A bl ds cko t n ge ij vks fuos' kd vrhr dh Nk; k gkus ds dkj .k gh fgnh dh orEku "kkuuh; fLFkr gA 60 djkm+l svf/kd ykxkadh bl Hk"kk ds vuud : i gA ; g Hk"kk Hk}r dh Hk"kk'kd vks l kldfrd fofo/krk dk irhd gA fgnh fd l h , d fo' ksk jkT; vFkok t}fr dh Hk"kk ugha gA vi us mnkj }fj= ds dkj .k fgnh fo" o ds JSB re l kfgR; , oaHk}r h; Hk"kkvka ds l kfgR; dh vFHkO; fDr cuh gA fdar jkt uhr ds dkj .k fgnh tS h Hk"kk dk foj ksk gsk gA Hk"kk l l dfr dh okgd gsvks bl sfoLer d}us ds dkj .k l l dfr ds foHkku okgd tS sur; j jæep vkfn fgnh insk l sy}r gksg gA ge nh jkad Hk"kk l l dfr] [kku&i ku] igukos ds vi usn k dh Hk"kk vkfn l s JSB rj ekurs gA i ks x}r us v' p; l izdV fd; k fd Hk}r dks NkMej fo' o ea vl; dgha Hk" i k k f e d f' k f k ekr Hk"kk l sbrj Hk"kkvka eughan tkrh A dfBu 'kCnkoyh dk vjki fgnh ij gh yxr g} vasth ij ugha A i ks x}r us l jdkjh o vl; l l Fkku ka }kjk fd, 'tkus okys Hk"kk iz; Ruka dh vkykpk , oajpukRed l g; kx ds vFHko dks, d foMcu; k crk; kA ; jfi vuopk dh puksr; kar ksj gach gh A ge cgr&l kjh xykfe; ka ea th jgs g} ftudk i jk}k Hk"kk l s gk}k gA gea vi uh Hk"kk ea Kku&foKku fy [kuk o l h [kuk pkfg, rFkk l 'tukRedr dks vi ukuk pkfg,] ughars, d jk"V ds; i eagekj vkfRro l ekir gk}t, xkA vi usD; k[; ku ds vir eafgnh ds jkst xj dh Hk"kk cuul ækth , d izu ds mRrj eais x}r us fgnh dks"KM; æ l seDr d}rs gq ml dk vf/kdkj fn, tkus dh vko'; drk ij cy fn; kA



0; k[; ku nrs gq i ks Mh oh x}r

bl l s i oZ Mk- fnu sk pekyk] i Hk}j] jktHk"kk vuHkx us e[; vfrfFk dk i fjp; fn; k vks dgk fd fgnh cktkj] , drk o v [k}r r k dh Hk"kk gA vl; l Hk"kk"kk, aHk" Kku dh l fjr, agA ij vi uh Hk"kk dk l Eeku vko"; d gA ehfM; k Hk" l Qyrk ds fy, fgnh dk ek/; e vi uk jgk gA fgnh eafokku Hk" eiy : i l sfy [kk tkuk pkfg, A e[; vfrfFk dk Lokxr d}rs gq Jh fot; dækj dks' kd] iz kkl u fu; æ d us vk"kk 0; Dr dh fd bl 0; k[; ku l sl l Fku ea, d ubZ pruk dk mn; gkxkA vir"r" Jh l g}bnz dækj] iz kkl u vf/kdkj us l Hk" dk /ku; okn Kkfi r fd; kA

bl l s i oZ Mk- fnu sk pekyk] i Hk}j] jktHk"kk vuHkx us e[; vfrfFk dk i fjp; fn; k vks dgk fd fgnh cktkj] , drk o v [k}r r k dh Hk"kk gA vl; l Hk"kk"kk, aHk" Kku dh l fjr, agA ij vi uh Hk"kk dk l Eeku vko"; d gA ehfM; k Hk" l Qyrk ds fy, fgnh dk ek/; e vi uk jgk gA fgnh eafokku Hk" eiy : i l sfy [kk tkuk pkfg, A e[; vfrfFk dk Lokxr d}rs gq Jh fot; dækj dks' kd] iz kkl u fu; æ d us vk"kk 0; Dr dh fd bl 0; k[; ku l sl l Fku ea, d ubZ pruk dk mn; gkxkA vir"r" Jh l g}bnz dækj] iz kkl u vf/kdkj us l Hk" dk /ku; okn Kkfi r fd; kA

• fgnh ekj l eki u l ekjkg] 28 fl ræj] 2012

foHkku ifr; kfxrkvka o vl; vk; kst uka l s i fji wZ "fgnh ekj"&2012 dk l eki u i hD jru dækj i k}ls] v/; {k fgnh foHkx] eapZ fo' ofo | ky;] eapZ ds e[; vfrfFRo evk; k}tr , d HkO; l ekjkg ds l kFk gq kA i ks i k}ls usd gk fd ge , d Lora= o l a Hkqykdra= ds; i ea64 o"z jktHk"kk ds l kFk frk pps gA ; g nqk dh ckr gsf d ge fgnh dks d n} fo' ksk fnukard gh l hfer j [krsgA i ks i k}ls usfgnh dh jktHk"kk ds; i eal lfo/kkfud fLFkr vks bl l æk ea nf}k .k Hk}r eafgnh foj ksk vknksy dh pplZ d}rs gq vk' p; }æf fJr nq'k izdV fd; k fd vi uh {k=h; Hk"kk vFk}r rfey dks cpk, 'tkus dh vi }k}k ogkaxg ke cukus okyh fons kh Hk"kk vFk}r vasth dks gh cpkus dk vknksy gq kA ; g l e>k gh ughax; k fd gekjns k ds uk; dka us foHkku Hk"kk&Hk"kk {k=ka ds gkrs gq Hk" ; fn fgnh dk gh l a dZ Hk"kk] jktHk"kk ; k jktHk"kk ds; i eap; u fd; k Fk} rks vkf [kj D; ka \ mnkj hdj .k dk l = i kr

gkucsdscn nsk eavk, fons kh Vh oh pSuykaushkh i kj BHkd o"kkadsrjar ckn ; gka dh vko'; drk l e>rsqg ; g tku fy; k Fkk fd Hkjr eafgnh pSuy gh py l drsga vaxth bkyM eahk 100 o"wadsl a"kdscn gh jkt Hk"kk dk ntizi k l dh FkA fgnh dskh l e; yx l drk gS ij og vk, xh vo'; A i ts i kAs ustuhk"kk dh egrk ij vS Hk vfk d i dk'k Mkyrsq dgk fd vi usdky eal hdir dsgrs gg Hk cpa o egkohj usvi uh cr tu&tu rd igpkusdsfy, i kfy vS i kdr dk iz kx fd; kA xkokeh nyl hnl us l hdir dk fo}ku gksrsg Hk *jkepfjr



fgnh ekg l eki u ds mn?kkVu ds {k.k

ekul * turk dh Hk"kk eafy [kA i ts i kAs us l hFku ds l mhz ea oKkfudka dks l ekr djrsq dgk fd vaxth dh vi s k vi uh Hk"kk dksvi ukrsg oKkfud tks l kfgR; nsk og turk dk cMk fgr djuosyk gA

nksfnu i mZgh 26 fl ræj] 2012 dks Hkjr; i s/ky; e l hFku dh ekrl hFk "l h, l vkb vkj" ds l Fkki uk fnol l ekj kg eai zkkuea-h }kjk "nsk ea' ksk de gkud dh vli .kh ij ppkz djrsq i ts i kAs usdgk fd ; g bl dkj .k gsf d Hkjr ea' ksk vaxth ea gsrk gS vi uh Hk"kkvka eaugha i kS kfxdh ogh Hk"kk vi ukrh gS tglam dk fodkl gsrk gA

vuopn l eakh Hkdr; ka vS ml ds egro dh ppkz djrsq i ts i kAs usdgk fd vuopn usgeacgr dñ fn; k gS vl; Hk"kkvka dskku foKku o l kfgR; dks ge rd i gpk; k gA

i ts i kAs us oKkfudka dk vkgoku fd; k fd os 'kcnkoyh cuk, } bl grq v/; ki u& (s= l sl gk; rk y; 0; kogkfj d iz kx l sl h [kA foKku o i kS kfxdh ds l hFku Hk"kk dk j kLrk fn [k l drsga

Jh i kAs ds o; k[; ku ds i mZ l hFku dh vS l se[; vfrfk dk Lokx djrs gg MKW, l , e ukuk/h) dk; }kjh funskd us dgk fd fgnh l lrg] fgnh i [kokMk; k fgnh ekg tS sl ekj kg fo'k k mrl kg dsvol j gksrsgA

Lkekj kg dk l pkyu Mknus k pelyk ofj "B fgnh vf/kdjh usd; k vS dgk fd fgnh ekg l adYi kack i rhd gA ykd Hk"kk dh fojkl r dh /kuh fgnh eaKku&foKku dksvfhk; fDr ndj geavi uh 0; ki d o jk"Vh; l kp dk i fjp; nusuk pfg, A

e[; vfrfk us fgnh ekg dsvol j ij vk; kfr foHku i fr; kfxrvka ds fo'k vka r Fk l jdkjh dkedt eaew; i l sl okz/kd fgnh iz kx djuosyk depkj; kadks i j Ldr Hk fd; kA

vrr%Jh fot; depk dks'kd] iz kkl u fu; a-d us/kU; oln Kkfr djrsq dgk fd Jh i kAs ds o; k[; ku l sl hFku eatkxr vk, xh A

l hFku&i fjokj ds l ekpkj

1/2 l hFku&i fjokj eaof

ubz fu; fDr; k

rduhf'k; u 1/1 1/2

• Jh vkechj fl g

27-07-2012

- Jh ftrbznfl g 30-07-2012
- Jh oh l hylEj l u 31-07-2012
- Jh okyk fo'kky exuHkbbz 06-08-2012
- Jh xq tkrh th 07-08-2012
- Jh v'ouh depk 08-08-2012
- Jh vejni depk 09-08-2012
- Jh dkaysje sk dksy jke rduhdh l gk; d 13-08-2012
- Jh vli yk uk; Mw 06-08-2012
- Jh vf[kysk depk depz 06-08-2012
- Jh dl huk Mh i h y{eh depk 06-08-2012
- Jh eukst depk 07-08-2012
- ekd l kftn vgen 'kjhQ 08-08-2012
- Jh ftrbzn depk 16-08-2012
- Jh vfer depk 23-08-2012

gkfnz vfHkulnu!

LFkkukarj .k ij l hFku eavkxr

Jh l j bzn depk] c' k l fud vf/kdjh] l h, l vkbvkj & ubz fnYyh l } 14-09-2012

gkfnz vfHkulnu!

1/2 l hFku&i fjokj l sfonkbz

vf/kof'kkr i j l ok&fuofRr

31 tgykb] 2012

- Jh ; wdstk; l oky ofj "B c'kku oKkfud
- Jh euekgu depk] ofj "B rduhdh vf/kdjh 31 vxLr] 2012
- Jherh mfezyk l fnj; ky] vfHky[ki ky 30 fl rEj] 2012
- Jh l j bznmi k/; k;] ofj "B rduhdh vf/kdjh
- Jh vkj dsdij] futh l fpo
- Jh jkenj 'k fl g] ofj "B rduhdh vf/kdjh

HkkoHkuh fonkbz

l h, l vkbvkj & Hkki d al sLFkkukarfj r

- Jh i adt depk] vuHkx vf/kdjh] l h, l vkbvkj e[; ky;] ubz fnYyh dkS 30-07-2012
- Jh l rh'k depk] l eeg 1/2 d bnh; Hkou vuq dku l hFku] #Meh dkS 20-09-2012

'k k k d keuk, d

l h, l vkbvkj & Hkki d al sR; kx&i =

- dq __pk fl gky] oKkfud 24-08-2012

'k k k d keuk, d

असामयिक निधन पर हार्दिक शोक

• Jh ; w l h vxoky] e[; oKkfud 1/2 ok&foLrkj 1/2

tIe % 12-08-1951
 l hFku ea dk; }zg.k % 30-06-1977
 fu/ku % 09-09-2012
 bz oj fnoxr egkuHko dh vkrk dks 'kkfr cnu djsA



श्रद्धांजलि

Jh foykl jko nsk e[; k] i mZ dnh; ea-h] foKku , oa i kS] kfxdh rFk i Foh foKku



14 vxLr] 2012 dk fnu Jh foykl jko nsk e[; k] dsvl kef; d ngol ku dk l kkh jgA foKku , oai kS] kfxdh ea-h ds: i easoKkfud rFk vS] kfxd vuq dku i j "n-dsmi k/; {k dk i n Hk l qkkr dj ppsFA 26 ebl 1945 dkegk k"V jkt; dskrj ftysdskHkGxlo ea tlesLo Jh nsk e[; k] usjkt ufrd thou dh 'k vkr vi ustle&LFku ckhGxlo dh xte i pk; r dh l nL; rk l schA egkj k"V foKku l Hk dh l nL; rk vS] fQj ea-Ro dsmUknk; Roka dsk Hkkyrsq os 1999 eabl jkt; dse[; ea-h Hk cuA 2009 easojkt; l Hk dsl nL; ds: i eafuokpr gksj dizeai gpsvS mlghausdnh; l jdkj dh ufr; kack dk; Mlo; u dju seagRo i w; ksnku fn; kA tgykb] 2011 easofoKku , oai kS] kfxdh rFk i Foh foKku ea-h vS] l h, l vkbvkj ds i nsi mi k/; {k cuA bl h gS l ; r eamlgus1 uoej] 2011 dks l hFku dk bz oj fnoxr egkuHko dh vkrk dks 'kkfr cnu djsA