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NEWSLETTER

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**Farewell to Dr S K Joshi, Director General CSIR
and welcome to
Dr R A Mashelkar, new Director General CSIR**



Dr T S R Prasada Rao, Director, IIP welcoming Dr R A Mashelkar, new Director General, CSIR.

Both Dr S K Joshi, Director General, CSIR and Secretary to Govt. of India who is to retire on 30 June, 1995 and Dr R A Mashelkar, Director, NCL who is designated new Director General of CSIR were at the Indian Institute of Petroleum on 23 and 24 June, 1995 in connection with the meeting of CSIR Technology Advisory Board (Chemical Sciences).

Director and staff of IIP took this opportunity for organising a grand function to bid a touching and befitting farewell to Dr S K Joshi and to welcome and felicitate Dr R A Mashelkar. The function was organised in the Institute's auditorium and was attended by dignitaries like Prof R Kumar, Dr S Vardarajan, Prof B K Bachawat, Mr A P Chaudhary, Prof Govardhan Mehta, Prof K Vasudeva, Prof P Natrajan, Dr Anil C Ghosh, Dr K V Raghvan, Prof G V Subbarao, Dr C M Gupta, Prof V K Gaur, Prof U R Ghatak, Dr U T Bhalerao, a galaxy of scientists from outside organisations, invited guests and entire staff of the institute.

Speaking on the occasion Dr T S R Prasada Rao, Director, IIP highlighted the achievements of Dr S K

Joshi who very ably steered CSIR alongwith its 40 laboratories to great heights with excellent performance of international standards. He said that Dr Joshi met all the great challenges which CSIR faced especially after liberalisation with great patience and endurance. He thanked him for his great support to IIP during his tenure. He welcomed the appointment of Dr R A Mashelkar as the new Director General, CSIR whom he has closely known and admired his great dynamism and vision. He hoped that Dr Mashelkar will be able to get even better results.

Dr Raghunath Anant Mashelkar was born on 1 January, 1943 and is an internationally acclaimed chemical engineer. He did his B Chem Engg (1966) and Ph D (1969) from the University of Bombay, and then went to U.K. where he worked as a Leverhume Research Fellow during October, 1969 – September, 1970 and as a lecturer in chemical engineering during September, 1970 – November, 1976 at the University of Salford. He joined the National Chemical Laboratory (NCL), Pune, as Assistant Director in November, 1976 and rose to become the Director of this premier CSIR



Dr T S R Prasada Rao, Director, IIP bidding farewell to Dr S K Joshi, outgoing Director General, CSIR.

laboratory in June, 1989. Dr Mashelkar is recipient of a large number of prestigious awards and has delivered numerous invited lectures in India and abroad.

Prof R Kumar, Chairman, TAB (Chemical Sciences) also spoke on the occasion and appreciated Dr Joshi's performance and remarked that CSIR made great progress under his leadership. He expressed great hopes in Dr Mashelkar and said that future of CSIR is bright and safe in the hands of Dr Mashelkar.

Dr S K Joshi in his speech said that he has been able to lead CSIR because of cooperation of entire CSIR family. He appreciated the progress being made by IIP. He wished all success to Dr Mashelkar.

Dr R A Mashelkar, speaking on the occasion, said that CSIR has got a great potential with laboratories in all spheres of science and in all parts of the country. He hoped to make CSIR technologies globally acceptable. He said that IIP has been making great progress under the leadership of Dr T S R Prasada Rao and hoped that IIP will one day be known as International Institute of Petroleum instead of Indian Institute of Petroleum.

Earlier, representatives of IIP Ladies Social Welfare Organisation, IIP Staff Club, Research Scholars Club, IIP Scientific Workers Association, IIP Workers Association, IIP Salary Earners Society, IIP Cooperative Society and IIP Central School presented bouquets to both of them and spoke very high of them. IIP has got the distinction of being the first CSIR laboratory to bid



Dr S K Joshi speaking on the occasion of his farewell function.



Dr R A Mashelkar speaking on the occasion of his felicitation function.

farewell to Dr S K Joshi as well as to felicitate and welcome new Director

General of CSIR, Dr R A Mashelkar, by organising this grand function. □

SAVE OIL FOR NATION'S PROSPERITY

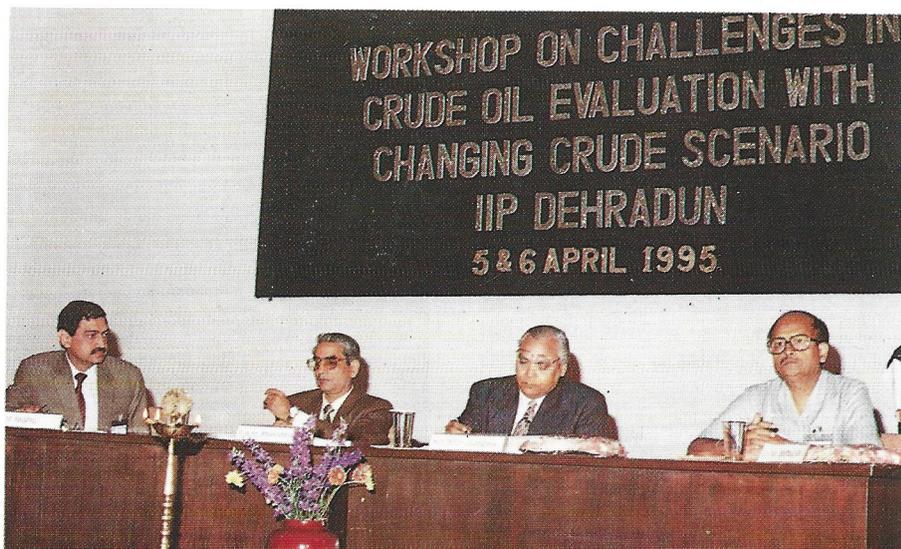
**WORKSHOP ON
CHALLENGES IN
CRUDE OIL EVALUATION
WITH CHANGING
CRUDE SCENARIO**

A two-day workshop on "Challenges in Crude Oil Evaluation with Changing Crude Scenario" was held on 5 and 6 April, 1995 at the Indian Institute of Petroleum. 110 delegates from all refineries of India, research and planning organisation in the petroleum sector from all parts of the country attended this workshop.

The workshop was inaugurated by **Shri Kuldeep Chandra**, OSD, KDMIPE, Dehradun and the keynote address was delivered by **Dr A K Bhatnagar**, Executive Director, Indian Oil Corporation R&D Centre, Faridabad. Inaugurating the workshop, Mr Kuldeep Chandra said that the evaluation of crude oil was an important requirement for crude oil products as well as for the end-user, the refiner. He said that crude oil assay could even help determine the viability of new field discoveries. He

further said that though there had been considerable advancements in the sphere of crude evaluation much was still required to be done and that characterisation of crude oil was an extremely difficult task as crude oils exhibited wide variations in composition and properties. Speaking on the occasion, **Dr T S R Prasada Rao**, Director, IIP and Chairman of the Organising Committee of the workshop said that the workshop has

been tailored to cover the crude scenario of the country, analytical developments in the area and requirements of the industry with changing product quality and specifications. Dr Prasada Rao stressed the need for organising such national meets to discuss the importance of crude oil evaluation which give a forum for experts from all over the country to exchange their knowledge, expertise and ideas to improve crude oil evaluation techniques. Dr Prasada Rao said that with the technological advancements, the requirements and scope of crude oil product evaluation was also gradually changing. A total of 18 invited lectures were delivered by experts from research, industry and planning organisations covering various aspects of crude oil evaluation viz. Indian crude scenario and crude processing, changes in product quality and product specifications in the light of environmental considerations, analytical developments in the area of crude oil and product analysis, implications in heavy crude processing and analytical challenges in analysing these crudes to help overcome the handling and processing difficulties. Computerisation in the management of analysis



Seated on the dais are Dr J M Nagpal, Dr T S R Prasada Rao, Mr Kuldeep Chandra and Dr A K Bhatnagar.



Shri Kuldeep Chandra, Dr A K Bhatnagar and Dr T S R Prasada Rao inaugurating the workshop on Challenges in Crude Oil Evaluation with changing crude scenario.

and analytical data was also highlighted.

A panel discussion was organised at the end of the workshop and the major recommendations which emerged were:

- Availability of crude data at minimum time and cost shall have a vital importance. Some central agencies like O.C.C. or C.H.T. should coordinate. A spectrum of indigenous and imported crude oils should be selected for which IIP could carry out the evaluation studies and make the data available.
- All refineries and R&D centres should come out to update the instrumental analysis facilities to meet the new challenges in heavy crude characterisation and changing product specifications.
- Besides acquiring valuable data through traditional crude evaluation procedures, there is a need to look deeper into the fractions for value addition to the streams so that profitability of the refineries could be increased.
- There is a need to look, in detail, into the chemistry of heavy crude oils to tackle various problems related with heavy crude handling and processing.
- A cooperative research program should be undertaken by refineries having FCC, hydro-cracking vis-breaking and other secondary conversion processes for predicting yield and quality to increase profitability of using the secondary conversion facility.

Research efforts being made by the IIP in the area of crude oil evaluation were highly appreciated

and applauded by the delegates. IIP has the most modern infrastructure and the facilities are being further updated through O.I.D.B. grant to meet future challenges in this area. □

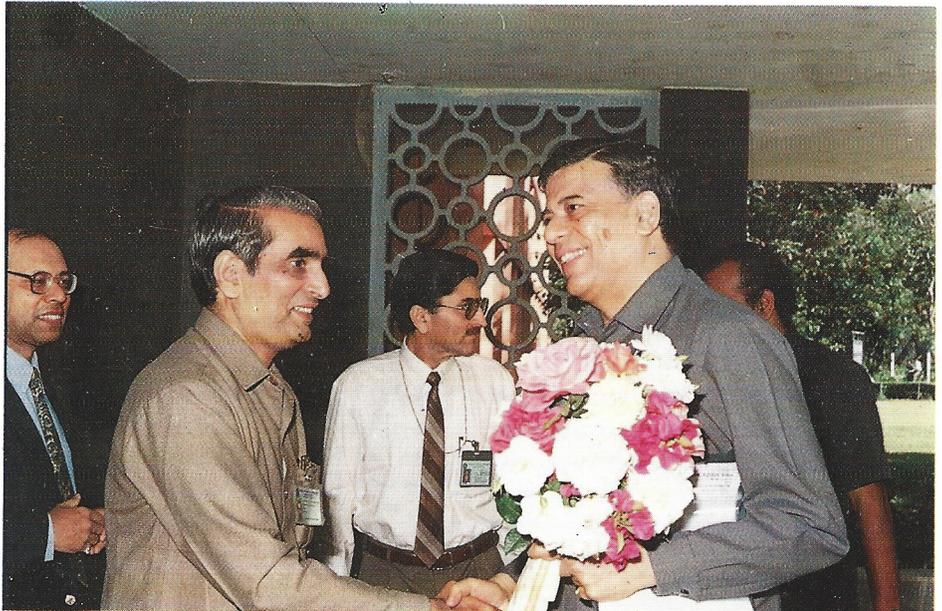
IIP CELEBRATES FOUNDATION DAY

The Indian Institute of Petroleum celebrated its Foundation Day on 22 April, 1995. **Dr Vijay Laxman Kelkar**, Secretary, Ministry of Petroleum and Natural Gas was the Chief Guest and delivered the Foundation Day Lecture on "Reforms of the Hydrocarbon Sector : Emerging Perspectives" at the Institute's auditorium which was attended by distinguished and eminent personalities of the oil industry, dignitaries from various organisations, invited guests and all staff of the institute.

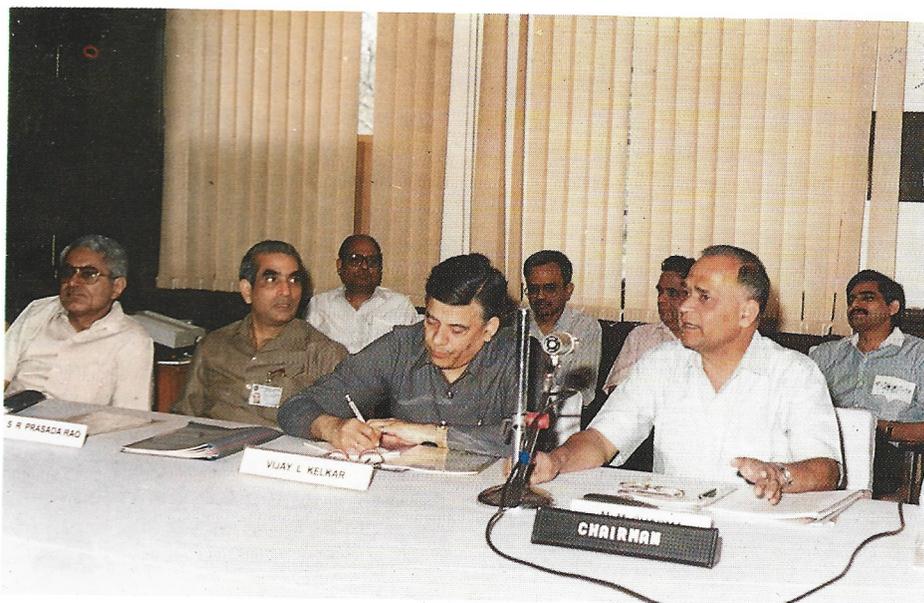
Speaking on the occasion, Dr Vijay L Kelkar outlined his perception

of the role of the hydrocarbon sector, the pressing reasons for the reforms and the content of its emerging reform process. Dr Kelkar said that since the introduction of new economic, fiscal and trade policy in 1991 by the Government, the first phase of the policy was on the right track and the rate of growth accelerated to 5%. The second phase will include the non-tradable sectors e.g. the telecommunications, transport, finance and energy sector. The third phase would cover the factors of production when privatisation will take place, he added.

Dr Kelkar suggested reforming the system of subsidies since the concept of subsidy has become unsustainable now. Citing the example of ONGC, he said that it was getting half of the international price for the oil they produced. Referring to pricing reforms in the oil sector, he said the reform of ONGC in terms of enhancing efficiency would be the key to the reform of the entire oil industry. The important factors to be tackled include core competence, more decentralisation,



Dr T S R Prasada Rao, Director, IIP welcoming Dr Vijay Laxman Kelkar, Secretary, Ministry of Petroleum and Natural Gas.



Prof M M Sharma, Dr Vijay L Kelkar, Dr T S R Prasada Rao, Director IIP, and Mr A P Chaudhary busy in the meeting of Scientific Advisory Committee of the Ministry of Petroleum and Natural Gas.

and management freedom. As to the Government policy on reforms, Dr Kelkar said the thrust would be on payment of international price and providing level playing field to national oil companies and promoting larger number of stakeholders in ONGC. In the down-stream sector, "We would introduce pricing reforms with a soft landing approach that allows every one to adjust."

Dr Kelkar said the consumption of hydrocarbons would go up from 8 percent to 10 percent per annum to ensure more dynamism of the Indian economy. Therefore it was time the hydrocarbon sector was put through adequate reforms and recognised as a front-line sector of the national economy.

Dr Kelkar said that total gains from the reforms in the hydrocarbon sector suggested recently could touch Rs 15,000 crores. The viability and shock of oil crisis for the industry could be tackled by such possible benefits.

Earlier, **Dr T S R Prasada Rao**, Director, IIP in his welcome address

said that the institute was gearing to meet the new challenges in view of the reforms of the hydrocarbon sector. He said Foundation Day was an occasion of reminding ourselves of the task of facing challenges in the oil sector. He expressed his happiness on the august presence of **Prof M M Sharma**, FNA, FRS, **Dr S Vardarajan**, former Director General, CSIR and **Shri R K Narang**, Chairman, Indian Oil Corporation on the occasion. He said that IIP Foundation Day lecture is prestigious one and previous Foundation Day lecturers included stalwarts like **Late Shri Lovraj Kumar** and **Dr Abid Hussain**. While narrating the contributions of IIP, he said that IIP developed several commercial technologies in the refining industry and they are in commercial operation in the country. He said that IIP had bagged three CSIR Best Technology Awards during the last five years. While introducing the Chief Guest, Dr Prasada Rao said that Dr Kelkar is a three-in-one personality since he is an engineer, economist and a bureaucrat.

Prof M M Sharma, Director,

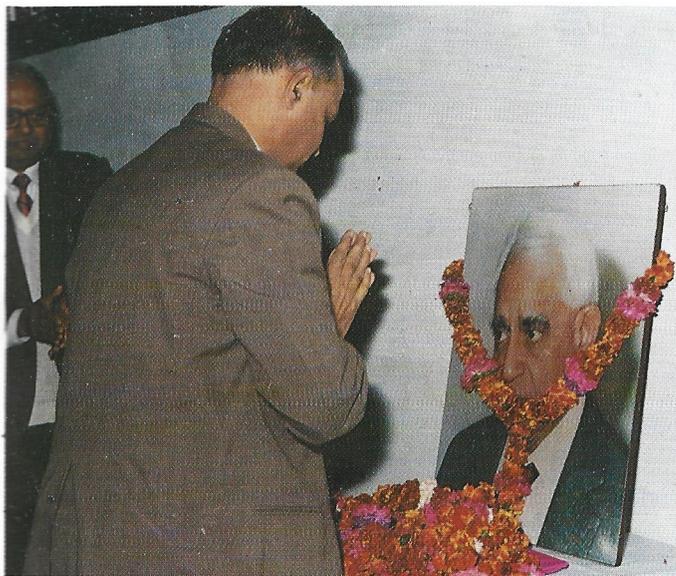
UDCT, Bombay, in his presidential remarks felicitated all the IIP employees on the Foundation Day and said it was a time to think of making the "foundations stronger" in the petroleum industry which aims to "produce more from less" materials. Prof Sharma said that our modern life style critically depends on the petroleum industry which the IIP serves. Prof Sharma emphasised the need of changing heavier fractions to more useful ones and of the changes in down stream processing. Prof Sharma said the oil industry needed unique catalysts, separation processes and engines to give a new thrust.

Dr S Vardarajan, former DG, CSIR also addressed the audience and remembered about his long association with IIP, Prof M M Sharma, Dr Vijay L Kelkar and Dr T S R Prasada Rao. He praised the wisdom of **Pt Jawahar Lal Nehru** and **Shri K D Malaviya** in creating IIP and ONGC. He also expressed his happiness that IIP has been making constant progress, has improved economically, has become more self-supporting and is one of the most modern laboratories in the petroleum sector. He also praised the contribution of IIP in imparting training to personnel from oil industry.

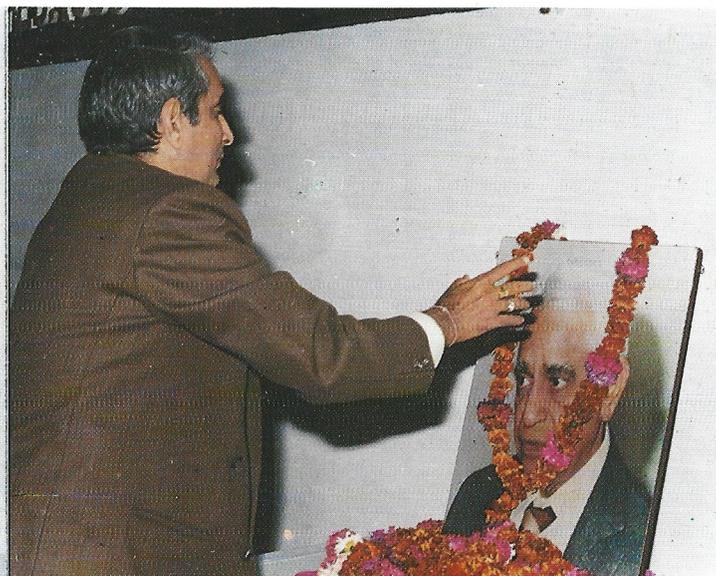
The proceedings of the function had begun with *Saraswati Vandana* by the children of IIP Central School.

Dr Vijay L Kelkar gave away the prizes and awards to the best scientists and best workers of the Institute which were announced by Director, IIP on the Republic Day of this year.

The proceedings were conducted by **Dr K S Jauhri** who also proposed a vote of thanks at the end.



Prof M M Sharma paying tributes to Late Shri Lovraj Kumar.



Dr T S R Prasada Rao paying tributes to Late Shri Lovraj Kumar.

FIRST LOVRAJ KUMAR MEMORIAL LECTURE AT IIP

Prof M M Sharma, FNA, FRS Director, University Department of Chemical Technology, Bombay delivered the **First Lovraj Kumar Memorial Lecture** at the Indian Institute of Petroleum, Dehradun on 4 February, 1995 on the occasion of first death anniversary of erstwhile Petroleum Secretary, **Shri Lovraj Kumar**, who was also Chairman of the Research Council of IIP. Prof Sharma delivered the lecture on the topic "The Changing Scenario in Petroleum Refining and Petrochemicals". The lecture was attended by a large number of scientists and citizens of Dehradun.

Prof M M Sharma mentioned that there was a growing realisation among Indian entrepreneurs that inspite of liberalisation, technology in the areas of refining and petrochemicals was less readily available than before and that it would have to be obtained from Indian sources. Prof

Sharma urged petroleum related institutes like IIP to meet the challenges posed by this technology crunch and come out with clean and safe solutions. Prof Sharma said that there are increasing variety of products which require urgent attention of scientists as technology is required not for substitution purpose but because they were simply not available and these are upcoming areas. He gave example of poly-acrylics, high quality packaging, barrier films etc. in which India's requirement was slated to be high. Such products utilised the entire range of refining byproducts and could be recycled too.

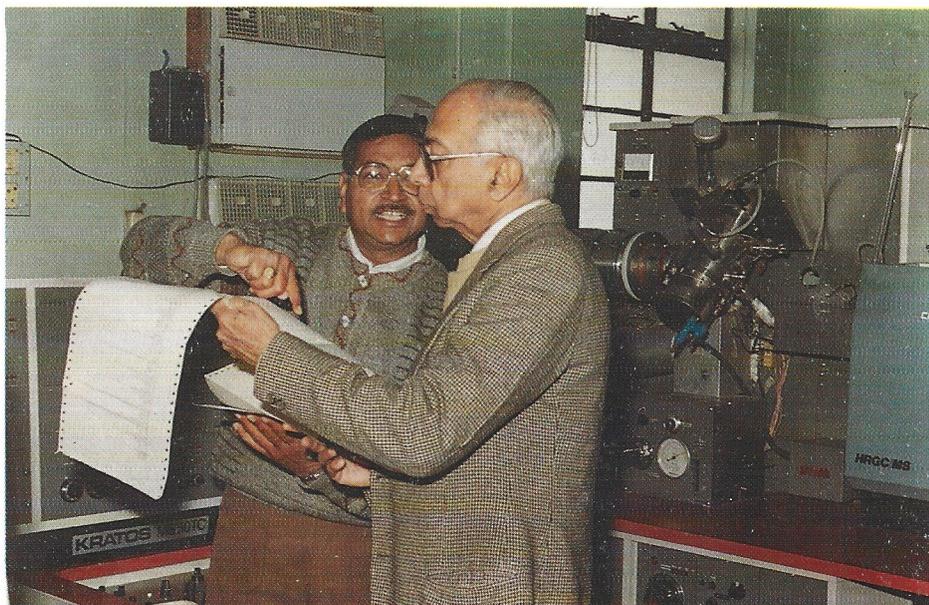
Expressing regret that refining and petrochemicals capacities available in India were nowhere according to world size, he urged the country to become a global player. He wanted the changed approach to be fundamental one and not a mere tinkering with the structure. In the light of the emerging scenarios, his suggestion was that the opportunities be grabbed in a comprehensive fashion. He gave the example of caprolactum plants, which could not be set up in a country like the USA as

the byproducts were not required there but were in great demand in India. In this context he recalled the forward-looking approach adopted by Late Sri Lovraj Kumar during his days at the helm when he took high risk decisions which paid off in bettering the conditions of common man. Prof Sharma spoke of the role played by synthetic substitutes that helped check the denudation of forests. He further said that as politicians and bureaucrats were impressed more by comparison than by scientific thinking, the performance of countries like China and Brazil were eye-openers. While China's production of polyethylene was close to 3 million tonnes, Brazil's per capita consumption of the product was five times that of India's. Commenting on India's potential he said that were even ten percent of the population to reach the purchasing power of developed countries, it would amount to more than that of the entire United Germany. Prof Sharma also drew the connection between meeting basic needs and the chemicals and petrochemicals industry, asserting that it was the most multi-cultural industry; he said it had led to happier and wealthier people. □

**CHAIRMAN
RESEARCH COUNCIL IIP
SHRI G V RAMAKRISHNA
VISITS IIP**

Shri G V Ramakrishna, Member, Planning Commission and Chairman, Research Council of IIP visited IIP for the first time after becoming Chairman, IIP Research Council on 14 February, 1995. He addressed the staff of IIP and also inaugurated the IIIrd Training Programme on Advances in Petroleum Refining Technology and Related Aspects at the Indian Institute of Petroleum.

Speaking on the occasion he expressed his happiness to be at IIP and commended the excellent contributions of the Institute to the petroleum industry under the able guidance of **Dr T S R Prasada Rao**, Director. He emphasised that there is a need to solve the problems in matching the refinery products, their quality standards, with market requirements. He said our quality standards should match international standards which are high. He said our efforts should be aimed at environmental protection, better lubricants for lesser wear and tear. Shri Ramakrishna appreciated the great service done by IIP in these areas and commended its achievements and the task done in taking these to the fields. He said that IIP has got a number of important research projects on the anvil and it has a major and key role to play in the areas of catalysts, hydroprocessing, hydrodesulfurisation and reforming. He said that the participants will greatly benefit at IIP and will have exposure to the high quality of work being carried out here. He said that petroleum industry is going to be a mixed sector with both public and private sector playing their respective roles. Lot of joint ventures in the



Shri G V Ramakrishna taking keen interest in analytical data by G.C.-M.S.

petroleum industry are on the anvil with not only foreign collaborators but also Indian partners. He said that with all this happening the future of the petroleum industry is very challenging.

Dr T S R Prasada Rao, Director, IIP, while welcoming Shri G V Ramakrishna and the participants of the programme, gave a brief introduction of the Chief Guest who has worked in various capacities like Secretary, Ministry of Industries; Advisor, Planning Commission; Chief Secretary, Andhra Pradesh; Secretary, Ministry of Petroleum and

Natural Gas; Advisor to Govt. of Tamil Nadu; Ambassador to Benelux; Chairman, SEBI; and now as Member, Planning Commission. Dr Prasada Rao expressed his thanks to Shri Ramakrishna for accepting the Chairmanship of Research Council of IIP as it has given us the privilege of getting his valuable leadership, advice and patronage.

Earlier, **Dr Himmat Singh**, Area Leader, Training Division, started the proceedings and welcomed Shri G V Ramakrishna and the participants. He also proposed the vote of thanks. □

**NATIONAL SAFETY DAY
AT IIP**

National Safety Day was observed at IIP on 4 March, 1995. In spite of this being a holiday more than 100 employees were present on the occasion. **Dr T S R Prasada Rao**, Director, IIP, hoisted the National

Safety Flag. This was followed by all the staff present taking the National Safety Pledge. Speaking on the occasion, Dr Prasada Rao strongly emphasised the need for safety and urged all the staff to follow safety procedures strictly to avoid accidents. The proceeding were convened by **Shri C N Bhargava**, Fire and Safety Officer. □

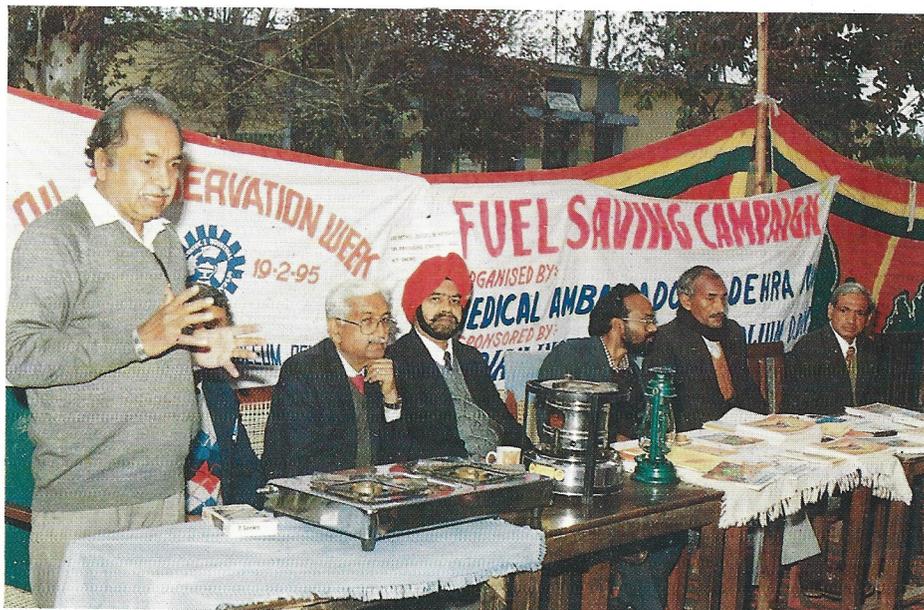
OIL CONSERVATION WEEK

Oil Conservation Week was observed all over the country from 13 to 19 February, 1995. The Indian Institute of Petroleum, Dehradun also organised variety of programmes. The main stress, this year, was on educating students and citizens of Dehradun and its surrounding areas on the importance of conservation of petroleum products through their efficient utilisation.

A week long activities were inaugurated in the Town Hall of Dehradun city by organising Student Meet on 13 February. The inauguration was done by **Dr V R Sista**, Dy Director, IIP. IIP scientists namely **Mr K K Gandhi**, Area Leader, Petroleum Products Conservation and Alternate Fuels; **Shri Y Kumar**, Group Leader, Technology Information Forecasting and Assessment and **Shri O N Anand**, Group Leader, Additives and Specialty Products, educated the students through their talks on the importance of conservation of petroleum products. About 250 students from various schools of Dehradun city participated in the Student Meet.

On 14 February, 1995 a team of IIP scientists, namely **Shri R K Sharma**, Engr EII, **Shri Laxmi Narayan**, **Shri Inder Pal Singh**, **Shri S K Malhotra**, **Shri Dinesh Kumar**, and other technical staff conducted exhaust emission tests on scooters and cars at ABNER Petrol Pump in the heart of Dehradun city from 11.30 a.m. to 3.30 p.m. There was a lot of enthusiasm among the owners of the vehicles and about 130 vehicle owners got their vehicles tested. IIP scientists also distributed PCRA literature and stickers on Oil Conservation to the owners of the vehicles on that day.

On 15 and 17 February, 1995, a



A team of IIP scientists on an educating campaign during Oil Conservation Week.

team of IIP Scientists namely **Shri K S Kambo**, **Shri H K Madan**, **Shri N R Gupta**, **Shri K M Agrawal**, **Shri P N Bhambi**, former Deputy Director and **Shri R K Sharma**, Engr EII visited Selakui and Vikas Nagar village blocks respectively and educated villagers, particularly women folks on conservation and proper utilization of LPG, kerosene and diesel fuels. PCRA's video films on fuel saving tips were also shown on the occasion and PCRA's pamphlets and stickers on oil conservation were distributed to the villagers.

A Quiz and Painting Competition

for school students on Oil Conservation was organised at IIP Campus on 16 February, 1995. About 10 schools participated in this competition. Prizes were awarded to winners and runners-up. Consolation prizes were also given to deserving entries. IIP scientists namely **Shri S K Malhotra**, **Dr M Abraham**, **Mr Gondal**, organised these competitions.

The week long activities were coordinated by **Shri R K Sharma**, with the help of scientists drawn from different sections and with the active cooperation of **Shri P V Dogra**, PRO, IIP. □

NATIONAL SCIENCE DAY AT IIP

National Science Day was observed at IIP on 28 February and 1 March, 1995. 28 February, 1995 was declared as "Open Day" and students from different schools of Dehradun

visited the laboratories of IIP. National Science Day lecture was delivered by **Dr Bhim S Pandhi** in IIP auditorium on 1 March, 1995. Dr Bhim S Pandhi (the National Vice Chairman of Academy of Medical Specialties) spoke on "Environment and Health". Dr Pandhi called upon the scientists to work out fool-proof ways and means to check pollution

and save the environment for prosperity. Dr Pandhi said that the future of humanity was facing danger due to ecological imbalance caused by exploitation of natural resources. Dr Pandhi said that 97% of the total water available in the world was unfit for drinking purposes because of the alkalinity in it, of the remaining 3%, 2% water was in ice caps, 1% water which was available for drinking was double the water requirements of the world. Dr Pandhi said that despite best efforts, pollution of water, air, and sound was on the increase. The situation was most alarming in developing countries. In India 98% of lead released in air was by gasoline.

Dr Pandhi, while talking about indoor air pollution, said that smoking was a major contributor to it and needs to be checked. He said that growing water and air pollution was posing a serious health hazard to the citizens of Doon valley. Dr Pandhi said pollution always has adverse effect on the health of an individual. Health and longevity were directly proportional to pollution. He said that pollution was responsible for countless physical, mental and psychological disorders.

Dr Pandhi said there was no dearth of laws to prevent environmental degradation but these were not being implemented properly. He said that the need of the hour was that all citizens join hands to keep the planet beautiful and free of pollution. Healthy environment was not only the need but also the birth-right of each individual.

REPUBLIC DAY CELEBRATIONS

Republic Day celebrations were held at IIP on 26 January, 1995 with **Dr T S R Prasada Rao**, Director, hoisting the National Flag and addressing the employees and their families. Dr Prasada Rao asked the IIP staff to explore their capabilities and analyse how to provide maximum support to the industry which has great expectation from IIP. He called upon IIP staff to maintain industry's trust in us. Speaking about the progress made by the Institute in last one year he informed that ECF of the Institute has increased by 11% and the value of sponsored projects by 92% over the previous year. He stressed the need for dedication and hard work in order to sustain the progress of the Institute. The security guards of the Institute gave an impressive March Past. Children of IIP Central School sang few action songs. There was a colourful display of Army Band. **Mrs Sujata Venkateshwari Prasada Rao** gave away prizes to the children. Dr T S R Prasada Rao announced the Best Scientists and Best Workers awards

of this year which are as follows:

1. Best Scientist (Basic Research)
 - Shri Rameshwar Prasad
2. Best Scientist (Applied Research)
 - Dr S P Srivastava
3. Best Scientist (General Management)
 - Dr S N Sharma
4. Best Scientist (Services)
 - Shri R K Bannerjee
5. Best Technical Officer
 - Shri J S Dutta
6. Best Secretary
 - Shri J B Bhatnagar
7. Best Workers Award (Scientific and Technical)
 - i) Shri Joga Singh
 - ii) Shri Inamul Haque
 - iii) Shri Pitambar Dutt
 - iv) Shri Mahesh Pal
 - v) Shri Amrit Lal
8. Best Workers (Administration)
 - i) Shri N S Rao
 - ii) Shri S C Gupta
 - iii) Shri R D Tamoli
9. Director's Special Award
 - Shri Suresh Kothari
10. Best Colloquim Award
 - Dr H U Khan
11. Best Laboratory
 - Biotechnology Laboratory



Best Scientist and Best Worker awardees with the Controller of Administration.


SAVE OIL

WORLD ENVIRONMENT DAY OBSERVED AT IIP

IIP observed the World Environment Day on 5 June, 1995. Padmshri Shri Avadesh Kaushal was the Chief Guest at the function organised at Institute's auditorium. Shri Kaushal said that pollution of the city from vehicles like Vikram, Tempo, trucks etc. is a matter of grave concern. He urged the scientists to come out with research to tackle the problem of pollution in Dehradun city. Painting Competition and debate on Environment were held in the Institute. Shri Avadesh Kaushal gave away the prizes to the winners of these contests. Shri Avadesh Kaushal also planted saplings at the Institute campus on this occasion.



Padmshri Shri Avadesh Kaushal speaking on the occasion of World Environment Day at IIP.

DR M G KRISHNA MEMORIAL LECTURE AT ANDHRA UNIVERSITY

Dr T S R Prasada Rao, Director, IIP, delivered the Dr M G Krishna Memorial Lecture at Andhra University on 13 April, 1995.

Speaking on "Present Scenarios on Petroleum Refinery and Its Future Challenges", Dr Prasada Rao said that India is far from attaining self-sufficiency in oil and he did not foresee such a possibility even by 2020 AD.

He said even a small rise in indigenous crude oil production made a significant impact on the country's budget as was reflected in recent times by the 0.5 million tonne (mt) rise achieved by the Oil and Natural Gas Commission (ONGC). Another

major strike such as the Bombay High, which contributed to 25% of the country's oil production, could significantly alter the situation, he felt.

Dr Rao said that India needed to additionally produce 54.8 mt of oil to be self-sufficient and measure upto rich and prosperous nations. India's oil production at present stood at 27.03 mt and refining output at 54.30 mt.

He predicted that India, by the turn of the century, would have a demand for 120 mtpa of oil as against a production capacity of 55 mtpa, leaving a deficit of 65 mtpa.

The country, however, was making a significant progress in the refining sector, having increased its performance from 31.80 mt in 1980-81 to 53.40 mt by 1993-94. Expanding the capacities had been responsible for the achievement.

Indian Oil Corporation contributed to 46 percent of the country's refining capacity, followed by Hindustan Petroleum Corporation Ltd. with 18.8 percent and Bharat Petroleum Corporation Ltd. with 11.2 percent.

He termed the working of the Indian refineries as 'very efficient'. The capacity utilisation had jumped from 81.96 percent in 1980-81 to 101.65 percent in 1993-94. He anticipated a 'tremendous growth' in India's refining capacity in the next 10 years given the ambitious plans of the private sector to enter the field. By 2000 AD, the refining capacity was expected to go up to 122.55 mt as against the existing 64 mt.

The IIP Director said India had also realised the need for product quality and its concern was reflected in the recent action of making it mandatory for vehicles in the metropolitan cities to adopt catalytic converters. India is improving its

specifications and has planned phasing out of lead and pruning the sulphur content in diesel to the barest minimum. Nearly Rs 3,000 crores is expected to be spent by the Indian refineries for hydrodesulphurisation of diesel.

Dr Rao said the future called for improvement in existing catalyst systems and invention of entirely new catalysts and processes in place of the existing ones. The area of catalysts provided a lot of challenges.

"In the Indian context we have to upgrade technology, develop process package along with catalysts and not just catalysts and need original innovation. Catalysts play a pivotal role in converting challenges into opportunities. New processes based on catalysts offer viable solutions. We must continue our R&D efforts," he said.

Referring to IIP, he said the Institute had made quite a significant impact on the Indian scenario by evolving indigenous technology. IIP also offered 30 to 40 percent of commercially-viable process technology for setting up of a new refinery.

Its other breakthroughs had been in light aromatic extraction, solvent dewaxing, delayed coking reforming catalyst, vis-breaking and naphtha pretreaters. Our technology has spread throughout the country and has found commercial success, he said. **Dr M Gopala Krishna Reddy**, Vice Chancellor, presided over the meeting. **Prof V B Sarma**, Principal, College of Engineering welcomed the gathering. **Prof B V Krishna Rao** introduced the speaker.

SEMINARS/CONFERENCES/ SYMPOSIA ATTENDED

- **Dr T S R Prasada Rao, Dr B S Rawat, Shri S K Jain, Shri R P Mehrotra, Dr Uma Shankar, Shri N Ray and Dr Y K Kuchhal** attended 1st International Petroleum Conference and exhibition *Petro-Tech 95* at Vigyan Bhawan, New Delhi from 9-12 January, 1995.
- **Dr B P Pundir** attended a workshop on CFR Testing Engine (Operation and Maintenance) organised by Gujarat Refinery on 20-21 January, 1995.
- **Shri N Ray** attended Indo-British seminar on "Catalysis in Energy and Environment" held at IICT, Hyderabad during 30-31 January, 1995.
- **Shri R S Gaharwar** attended the WAITRO International Seminar on "Human Resource: needs for change in R&D Institutes" held at India International Centre, New Delhi during 15-17 February, 1995.
- **Shri K K Gandhi** attended a one-day seminar at Vigyan Bhawan, New Delhi on 17 February, 1995 on "Environment Friendly Technologies in Transport Sector" organised by Damlar Benz, Germany.
- **Dr B P Pundir and Shri R P Mehrotra** participated in the International Seminar on "Catalytic Converter: Fresh Steps" at Bangalore on 20-21 February, 1995.
- **Shri S C Vishnoi, Dr S L S Sarowha, Miss S K Chopra, Shri R K Chauhan and Shri Siya Ram** attended Golden Jubilee Seminar on "New Horizons in Analytical Chemistry" held at IICT, Hyderabad during 23-24 February, 1995.
- **Dr S D Bhagat, Shri Basant Kumar and Shri G M Bahuguna** attended a symposium on "Applications in the Frontiers of IR, Raman and UV-VIS Spectroscopic Techniques" held at Suraj Kund, Haryana on 13 March, 1995.

MEETINGS

- 33rd meeting of Scientific Advisory Committee (SAC), of the Ministry of Petroleum and Natural Gas on Hydrocarbons was held at IIP on 21 and 22 April, 1995.
- Meeting of Technology Advisory Board (Chemical Sciences and Technology) was held at IIP on 23 and 24 June, 1995.

TRAINING PROGRAMMES ORGANISED

The following training programmes have been organised at IIP during the period January-June, 1995.

- Training programme on "Physico-Chemical Analysis for Fuels" was organised for chemists from Mangalore Refinery and Petrochemicals Ltd., Mangalore from 16 January to 10 February, 1995. A total of 6 persons including Manager (Lab) attended the programme. This was a practical oriented programme.
- Training programme on "Petroleum Refining Technology" for Chemical Engineers of different refineries from 13-24 February, 1995. There were 23 chemical engineers in total from refineries like Reliance Industries Ltd., Bombay; Cochin Refinery Ltd., Cochin; Bharat Petroleum Corporation Ltd., Bombay; Essar Oils Ltd., Bombay; and one participant from IIP, Dehradun attended the course. A total of 36 lectures were delivered during the programme.

Dr P K Mukhopadhaya, consultant, inaugurated the programme on 13 February and **Shri D K Palit**, ex-Director MRL, Madras was the Chief Guest at the valedictory function.

- IIIrd advance programme on "Petroleum Refining Technology and Related Aspects" was organised for GM/DGMs from 14-17 February, 1995. Total of 10 DGMs participated in the programme from different organisations like Reliance Petroleum Ltd., Bombay; Indian Oil Corporation Ltd.; Madras Refineries Ltd., Madras; and Cochin Refineries Ltd., Cochin.

The programme was inaugurated by **Shri G V Ramakrishna**, Member Planning and on valedictory function **Shri K K Malhotra**, President, Reliance Industries Ltd., Bombay was the Chief Guest.

- A three-day seminar-cum-workshop, on "Fixed Bed Catalytic Reactors" was organised from 28 February to 2 March, 1995. The lecturer of the programme was **Prof R S Mann**, Emeritus Scientist, Ottawa University, Canada.

- A three-day programme on "Emission Measurement of In-Service Vehicles for Pollution Control" has been organised.

Total of 22 officers participated in the programme from Central/State Environment and Pollution Control Boards and State Transport Departments listed below:

Pollution Control Boards (a) Central Pollution Control Board (i) Bangalore; (b) State Pollution Control Board (i) Karnataka State Pollution Control Board; (ii) Punjab Pollution Control Board; (iii) West Bengal Pollution Control Board; (iv) Rajasthan Pollution Control Board

Transport Departments (i) Govt. of National Capital Territory of Delhi; (ii) Transport Commissioner's Office, Trivandrum; (iii) Govt. of Maharashtra, Amravati and Ahmednagar; (iv) Office of the Transport Commissioner, Nagaland; (v) Transport Department, Madhya Pradesh; (vi) Chief Conservator of Forest, Arunachal Pradesh; (vii) Transport Department, Govt. of Goa, Goa; (viii) Transport Department, Bangalore

Environment Department (i) Environment Department, Haryana

- A one-week training programme on "Application of Fuels and Lubricants in Automotive and Industrial Machines" for sales executives of IBP Co. Ltd., New Delhi, from 17 April to 21 April, 1995. A total of 26 officers attended this programme. The programme was in the form of 21 technical presentations. The faculty for the programme was IIP working scientists in the respective areas.

Shri R K Narang, CMD of IOC who is also holding the charge of CMD of IBP Co. Ltd. and IOC Ltd. was the Chief Guest at the valedictory function.

- A two-week training programme on "Basics of Petroleum Refining Technology and Concepts of Fuel Refinery" for 19 engineers from Reliance Petroleum Ltd., Bombay was organised from 8-19 May, 1995. The programme had 26 technical presentations comprising of "Basics of Crude Oils, Products and Refining" and "Refining Processes" besides Lab and Pilot Plants visits.

- A two-week training programme on "Analysis of Specialty Oils by Chemical & Instrumental Techniques" for two officers from M/s Hindalco Industries Ltd., Renukoot was

organised from 29 May to 8 June, 1995. This was a practical orientation programme in the laboratories namely Micro Analysis, Standard Analysis, Crude Evaluation, GC, IR and Tribology.

- A two-week training programme from 26 June to 7 July, 1995 on "Petroleum Refining Technology" for Chemical Engineers from IOC (R&P Division), New Delhi, has been organised. A total of 19 participants of the programme were from Mathura and Gujarat Refineries of IOC Ltd. This was the first programme out of the two planned for IOC during this year.

Shri S C Bansal, GM-IMD, was the Chief Guest on the inaugural function. **Shri G R Sampat**, Executive Director, IOC Ltd. and **Shri Narang**, Chief Training Manager, IOC attended the inaugural function of the programme. **Mrs Geeta Dutta**, Training Manager, IOC, attended the valedictory function.

□

TRAINING PROGRAMMES ORGANISED FOR IIP STAFF

- A management training programme on "Managing the Future" was organised at IIP for IIP staff from 6 to 10 February, 1995. **Mr A V Venkateshwar Rao**, former Chief Engineer, Andhra Pradesh State Electricity Board and former Chairman, Allywn Ltd., Hyderabad and who is also a reputed management expert, conducted the course and it was attended by 75 persons.

- A training programme on "Essential Leadership Skills" was organised at IIP for IIP staff from 21

to 24 February, 1995. The course was conducted by **Mrs Renu Mattoo**, Director, Corporate Arms, and reputed management expert, and was attended by 20 senior scientists.

RESEARCH COUNCIL MEETINGS

- 13th meeting of the Research Council of IIP was held at Yojna Bhawan, New Delhi on 3 February, 1995.
- 14th meeting of the Research Council of IIP was held at IIP on 22 June, 1995.

DEMONSTRATION OF IIP TECHNOLOGY

- A demonstration of the IIP technology on sulfolane was held at IIP from 5 to 7 June, 1995. Representatives from various organisations of the oil industry were present.

COLLOQUIA

- **Dr Herman J Lovink** of AKZO NOBEL, Netherlands
"Relationship between Petroleum Refining and Petrochemicals", January 12, 1995.
"Reformulated Gasoline", January 13, 1995.
"Conversion needs in future : Market needs and process configuration", January 14, 1995.

- **Prof M Guisnet**, University Poitiers, France
"Fundamental description of coking de-activation and regeneration of zeolite catalysts", January 16, 1995.

- **Prof M Derewinski**, ICSC, Cracow, Poland
"Conversion of alcohols on ZSM-5 type Zeolite with reduced activity", January 27, 1995.

- **Mr N Ray**, Scientist, IIP
"Light Naphtha Aromatisation", March 23, 1995.

- **Dr K S Yajnik**, Director, C-MMACS, Bangalore
"Modelling and computing at C-MMACS", March 24, 1995.

- **Dr Lalji Dixit**, Scientist, IIP
"Structure and Acidity of Zeolites", May 30, 1995.

- **Dr D K Adhikari**, Scientist, IIP
"Biotechnology in Synthesis of Chemicals", June 15, 1995.

VISITORS FROM ABROAD

- **Prof H J Lovink** of AKZO NOBEL Catalysts, Netherlands visited IIP during 11 to 16 January, 1995.

- **Prof M Guisnet** and **Dr N S Gnep** visited IIP during 13 to 17 January, 1995.

- **Prof M Derewinsky** of ICSC, Cracow, Poland visited IIP during 25 to 31 January, 1995.

- A four member team from Kuwait Institute for Scientific Research visited IIP from 9 to 12 June, 1995.

DEPUTATIONS ABROAD

- **Dr M R Tyagi**, Engr E, went on deputation to Germany for 2 months starting 6 March, 1995 in Bilateral Exchange Programme with DAAD.

- **Mr Dinesh Kumar**, Engr C, went on deputation to Zimbabwe from 20 April to 1 May, 1995 to attend the final session of LEED.

- **Mr H K Madan**, Engr E, went on deputation to Portugal from 18 to 21 April, 1995 to attend European Conference on Industrial Furnaces and Boilers.

- **Mr G S Sen**, T.O-'A', went on deputation to Poland from 15 May to 14 July, 1995 in bilateral programme for study at ICSC, Cracow, Poland.

HONOURS/AWARDS

- **Dr T S R Prasada Rao**, Director has been nominated as member of CSIR Society and also as member of the Governing Body of CSIR.

RARE HONOURS FOR CHILDREN OF IIP STAFF

A Rare Honour

- **Mr Turaga Uday** a student of Chemistry Honours final year at the University of Delhi and son of **Dr T S R Prasada Rao**, Director, Indian Institute of Petroleum, was recently awarded the prestigious SPIC-



MACAY Fellowship for the year 1995. The Society for the Promotion of Indian Classical Music and Culture Amongst Youth (SPIC MACAY) every year carefully selects handful of students from all over India for their highly sought Fellowship programme. This Fellowship entails spending a month with renowned and celebrated people of eminence in the fields of music, culture, theatre, environment, religion, and social service.

Mr Turaga Uday spent a month with internationally renowned environmentalist **Smt Medha Patkar**, leader of the *Narmada Bachao Andolan*. Mr Uday spent the entire month of June 1995 touring highly inaccessible areas of the Narmada valley in west-central India, seeing first hand the plight of the project affected people, the work done by the NBA and understanding the entire issue. IIP Staff congratulates Mr Uday for this rare honour.

• **Km Tanu Srivastava**, a student of class XII (PCB group), daughter of **Dr Ashok Kumar**, Medical Officer-in-Charge of IIP Dispensary, has been elected "Head Girl" of St. Joseph's Academy, Dehradun, for the academic year 1995-96. She is, perhaps, the first student from IIP community to be elected to this prestigious post. Apart from having a good academic record, she has taken part in various kinds of extra-curricular activities, the most significant being Kathak dance, Tabla recitation and Painting. She has



appeared for "Prabhakar" examination in Kathak dance this year, and has given dance performances at various forums on different occasions. She has been fortunate enough to come in close personal contact with celebrities like **Mrs Kiran Bedi**, IPS, who visited St. Joseph's Academy recently. Km Tanu conducted the J L D'Suza declamation contest held at SJA, as Chairperson in which cine star **Mrs Ratna Pathak Shah** was one of the judges and **Mr Nasseruddin Shah** was the Chief Guest.

Tanu Srivastava is also Vice President of Interact Club (Baby Club of Rotary Club) of St. Joseph's Academy, Dehradun, this year.

IIP staff congratulates Km Tanu Srivastava on this prestigious appointment. □

AGREEMENTS AND MOUs

Following agreements and MOUs were signed during January to June, 1995:

A Technology Transferred/Licensed

1. "Naphtha Hydrotreater & Catalytic Reformer", Essar Oil Ltd., Madras on 8.2.95.
2. "Nutan Wick Stove", Ashoka Home Appliances Pvt. Ltd., Rajkot on 13.2.95. □

3. "Improved Hurricane Lantern", Ashoka Home Appliances Pvt. Ltd., Rajkot on 13.2.95.
4. "Nutan Wick Stove", Govani Industries Ltd., Indore on 7.2.95.
5. "Change-over from Sulpholane to NMP in Hexane Unit (NSU)", BPCL, Bombay on 24.4.95.
6. "IIP-AEC Process on Anti-oxidants", Tria Finechem Ltd., Bombay on 19.5.95.

B Sponsored Projects

1. Development of Technology for manufacture of long chain MFA for fuel oils and diesel oils (DSIR/TPL).
2. Development of process technology on recovery of naphthalene from light distillate cut (Graphite India Ltd., Bangalore).
3. Lube Base Stocks Characterization and additive response studies (MRL, Madras).
4. Pilot plant studies for separation of LAO from Coker distillates and sulphonation of alpha olefins to alpha olefins sulphonates (BRPL, Assam).
5. Parameter optimization of existing plant for continuous and batch chlorinating of Toluene (Daurala Sugar Works).
6. Development of technology for manufacture of long chain C₁₀-C₁₄ Secondary Alcohols by oxidation of C₁₀-C₁₄ N-Paraffins (DSIR/TPL).
7. "Diesel fuel quality : Requirements for meeting future emission standards" (CHT).
8. Development of Technology for improved Industrial N.G. Burner (GAIL/DSIR/ENCON). □

CONGRATULATIONS ON PROMOTION

Congratulations to the following officers on promotion:

1. Mr G N Kulsreshtha promoted to Scientist F
2. Mr R P Mehrotra promoted to Scientist F
3. Dr V K Bhatia promoted to Scientist F
4. Dr K S Jauhri promoted to Scientist F
5. Dr Himmat Singh promoted to Scientist F
6. Dr A K Gupta promoted to Scientist F
7. Dr P C Nautiyal promoted to Scientist F (posthumously)
8. Dr A Jayraman promoted to Scientist EII
9. Mr R N Roy promoted to Engineer EII
10. Mr A K Aigal promoted to Engineer EI
11. Mr S K Chhiber promoted to Scientist EI
12. Mr P V Dogra promoted to Scientist EI
13. Dr R B Gupta promoted to Scientist EI
14. Dr M K Khanna promoted to Scientist EI
15. Dr Mahendra Pal promoted to Scientist EI
16. Dr (Mrs) V Ramaswamy promoted to Scientist EI
17. Mr P B Semwal promoted to Scientist EI
18. Dr S N Sharma promoted to Scientist EI
19. Mr R L Sharma promoted to Scientist EI
20. Dr S P Srivastava promoted to Scientist EI
21. Mr A K Agarwal promoted to Scientist C
22. Mr Neeraj Athaiya promoted to Scientist C
23. Mr G B Tewari promoted to Scientist C
24. Mr Purshottam Das promoted to Tech. Officer C
25. Mr S C Gupta promoted to Tech. Officer C
26. Mr C N Bhargava promoted to Tech. Officer C
27. Mr P S Phull promoted to Tech. Officer C
28. Mr G N Madhwal promoted to Tech. Officer C
29. Mr H S Sewak promoted to Tech. Officer C
30. Mr V K Arora promoted to Tech. Officer A
31. Mr Paramjit Singh promoted to Technician Gr VII
32. Mr V P Mangain promoted to Technician Gr VII
33. Mr B S Negi promoted to Technician Gr VIII
34. Mr Man Singh promoted to Technician Gr VIII
35. Mr Amrit Lal promoted to Technician Gr VIII
36. Mr Ratan Mani promoted to Technician Gr VIII
37. Mr R K Sindhi promoted to Technician Gr VIII
38. Mr Pratap Singh promoted to Technician Gr VIII
39. Mr R N Maurya promoted to Technician Gr VIII
40. Mr B R Thapa promoted to Technician Gr VIII
41. Mr Tulsi Ram promoted to STA
42. Mr Sher Singh promoted to Technician Gr II
43. Mr Dhyam Singh promoted to Technician Gr II
44. Mr S P Mani promoted to Helper 'B'

RETIREMENTS

Farewell to following colleagues:

1. Mr S K Barua, Section Officer, who retired on 30 January, 1995
2. Mr S K Bansal, Information Officer EI, who retired on 30 March, 1995
3. Mr G N Kulsreshtha, Scientist F, who retired on 30 April, 1995
4. Mr N S Ramola, Security Officer, who retired on 30 June, 1995
5. Dr K M Sharan, Scientist EII, who retired on 30 June, 1995

CONDOLENCES

Heartfelt condolences on the sudden and untimely demise of :

Dr P C Nautiyal, Scientist F, 9 March, 1995

Mr S F Fish, Scientist EI, 21 April, 1995

Mr R K Bannerjee, Technical Officer 'C', 18 April, 1995

Mr Rafique Ahmed, Technician Gr VIII, 4 April, 1995

May God give their families the courage to bear the loss.

समापन समारोह में भारतीय पेट्रोलियम संस्थान के कार्यकारी निदेशक सुधीर सिंघल ने प्रतिभागियों को प्रमाण-पत्र प्रदान किए। संयोजक डॉ चमोला ने आभार व्यक्त किया। आयोजन में राजभाषा यूनिट

के सर्वश्री मुकेश चंद्र रतूड़ी, आर के कपूर, प्रताप सिंह चौहान, सुरेश वर्मा आदि का सक्रिय योगदान रहा। वैज्ञानिक एवं तकनीकी शब्दावली आयोग के सहयोग से यह आयोजन किया गया। □

भा पे सं स्टाफ क्लब द्वारा आयोजित कार्यक्रम

- भा पे सं स्टाफ क्लब के तत्वावधान में 26 जनवरी को गणतंत्र दिवस संस्थान के प्रांगण में बड़ी धूम-धाम से मनाया गया जिसमें भा पे सं केन्द्रीय विद्यालय के बालक-बालिकाओं ने अनेक

सांस्कृतिक कार्यक्रम प्रस्तुत किए। विद्यालय के बालकों एवं ईगल हंटर डिटेक्टिव्स के जवानों ने शानदार परेड का प्रदर्शन कर दर्शकों का मन मोह लिया।



श्रीमती सुजाता वेंकटेश्वरी प्रसाद राव आई आई पी सेन्ट्रल स्कूल के छात्रों को पुरस्कार वितरण करते हुए।

गणतंत्र दिवस के अवसर पर आई आई पी सेन्ट्रल स्कूल के विद्यार्थियों द्वारा प्रस्तुत सांस्कृतिक कार्यक्रम की एक झलक।



- जनवरी माह में ही श्री आदित्य राम शर्मा द्वारा संस्थान के प्रेक्षागृह में योग का प्रवचन भी क्लब द्वारा आयोजित किया गया।
- 9 फरवरी को विश्व विख्यात मिमिक्री सम्राट नीरूला वेणुमाधव जी द्वारा संस्थान के प्रेक्षागृह में मनमोहक कार्यक्रम प्रस्तुत किया गया।
- 9, 10 एवं 11 जनवरी को क्लब के सदस्यों एवं पारिवारिक जनों हेतु मसूरी में हिमपात देखने का आयोजन भी किया गया।
- होली मिलन के त्यौहार एवं रंगारंग कार्यक्रम ने जहाँ पुराने गिले-शिकवे भुलाए, वहीं आने वाले समय के लिए गले मिलकर एक दूसरे के प्रति सम्मान व प्रेम की भावना का प्रदर्शन भी किया गया।

- 27 से 30 अप्रैल के मध्य चौथा डॉ एम जी कृष्ण मेमोरियल ट्राफी ड्रुप्लीकेट ब्रिज टूर्नामेंट का आयोजन किया गया जिसके परिणाम निम्नवत रहे -

विजेता : केन्द्रीय सचिवालय, दिल्ली

उप विजेता : बी एच ई एल, हरिद्वार

इस टूर्नामेंट का उद्घाटन संस्थान के निदेशक डॉ टी एस आर प्रसाद राव द्वारा किया गया एवं पुरस्कार श्रीमती प्रसाद राव द्वारा दिए गए।



संस्थान के कर्मचारीगण श्रीमती एवं डॉ टी एस आर प्रसाद राव के साथ होली का आनन्द लेते हुए।

- 27 जून को संस्थान के परिसर में भा पे सं मेले का आयोजन किया गया जिसका उद्घाटन श्रीमती एस के जोशी द्वारा किया गया। इस अवसर पर संस्थान के निदेशक डॉ टी एस आर प्रसाद राव, प्रो एस के जोशी तत्कालीन महानिदेशक, वैज्ञानिक तथा औद्योगिक

अनुसंधान परिषद्, नई दिल्ली, डॉ आर ए माशेलकर, तब नामोदिदष्ट महानिदेशक, वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्, नई दिल्ली तथा कई जाने-माने वैज्ञानिक भी उपस्थित थे। रंगोली, बेवी शो एवं आतिशबाजी ने दर्शकों का मन मोह लिया।

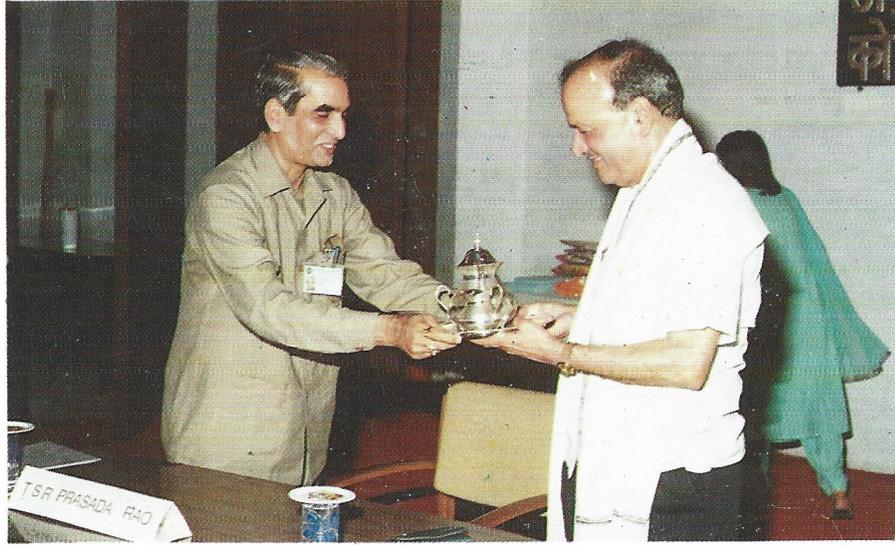
श्रीमती एस के जोशी आई आई पी मेला का उद्घाटन करते हुए। साथ हैं श्रीमती प्रसाद राव।



- इसी समय डिवीजनल टूर्नामेंट का आयोजन भी शुरू हुआ। इस वर्ष डिवीजनल टूर्नामेंट में निम्न प्रतियोगिताएं शामिल हैं -

क्रिकेट, बैडमिन्टन, रस्साकशी, कबड्डी, वॉलीबॉल, फुटबॉल, टेबिल टेनिस, चेस, ब्रिज एवं स्वीपा

अभिनंदन



डॉ टी एस आर प्रसाद राव, निदेशक आई आई पी, समस्त आई आई पी स्टाफ की ओर से डॉ एस के जोशी का अभिनंदन करते हुए।

देव भूमि में जन्म पाया श्रीकृष्ण जोशी नाम है
विश्व में विख्यात जो उत्कृष्ट जिनका काम है,

ज्ञान व विज्ञान का संगम हुआ जिस क्षेत्र में
वह अलौकिकता भरी थी बाल श्रीकृष्ण नेत्र में,

संघर्ष से वह व्यूह भेदा बन यशस्वी अभिमन्यु सा
पा लिया सब सहज ही, लक्ष्य जग गंतव्य का,

जीवन रहा अर्पण सदा ही ज्ञान को, विज्ञान को
बीतता हर रात दिन था, देश के अभिमान को,

धन्य है वह भूमि जिसने लाल ऐसा है जना
अवतरित होते रहें, ऐसे विलक्षण महामना,

व्यक्तित्व से जो सहज हैं जो सरल हृदय भाव से
नमन है श्रीकृष्ण जोशी! विद्वत्ता के भाव से,

संगठन (सी.एस.आइ.आर.) को ही नहीं, बल्कि गौरव देश को
विद्वत्ता के सूर्य पर, श्रीकृष्ण जोशी वेश को,

सूर्य ज्ञान-विज्ञान का, यह दिपदिपाता ही रहे
विश्व आलोकित करे, है यही बस कामना,

संघर्ष से दुःख झेलकर, जारी रखी नित साधना
हर क्षेत्र में पाई सफलता, सीखें सभी यह भावना,

स्वीकार हो लघु भेंट यह, पेट्रोलियम संस्थान की
पथ प्रदर्शक जीवन बनें, विजय हो सद्भाव की,

उपलब्धियों से भरपूर हो, सेवानिवृत्ति का काल ये
आरोग्यमय जीवन बने, सपरिवार सुख समृद्धि हो।

डॉ. दिनेश चमोला