



Octane Contours

(Newsletter of Rajiv Gandhi Institute of Petroleum Technology, Rae Bareli)

Special Issue

April 2012

From the Director's Desk



Another year has gone by and a time to once again reminiscence about all that was done during this time. This year's stories of some achievements, some struggles, some creativity, a host of academic endeavours and small stories of giving back to society are once again brought to you through this issue of "Octane Contours." I welcome you to catch a glimpse of the intense activity, growth lessons and excitement of an upcoming institution.

The next issue to be released later this year will give a glimpse of several laboratories that have been developed at RGPT to teach practical aspects to students. It is also planned to include in each future issue a technical article summarizing the latest developments in an aspect of the energy field. Suggestions on topics of interest are most welcome.

J. P. Gupta
Director, RGPT

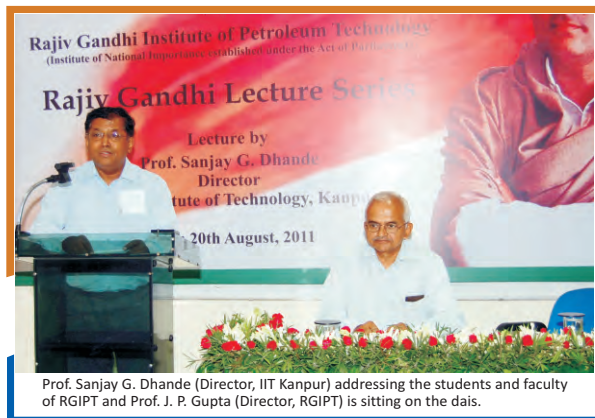
Inauguration of Centre for Environment, Health, Safety, Security & Sustainability

Centre for Environment, Health, Safety, Security & Sustainability (EHS3) was inaugurated at RGPT, Rae Bareli on 26th December 2011, by Prof. M. Sam Mannan (Regents Professor & Director, Mary Kay O'Connor Process Safety Center, Texas, USA). RGPT plans to offer various short courses, certificate courses, under graduate and post graduate programmes through this centre. Addressing the faculty and students of RGPT, Prof. Mannan said that today across the world oil exploration, production and refining companies are giving significant importance to environment, health, safety, security & sustainability. He greatly appreciated the setting up of EHS3 and suggested organizing annual conference on HSE, Security and Sustainability to create greater awareness about this important area.



Prof. M. Sam Mannan (Regents Professor & Director, Mary Kay O'Connor Process Safety Center, USA) speaking on the occasion of inauguration of EHS3 Centre.

Revisiting Education: The Need to Move Away from Oxbridge



Prof. Sanjay G. Dhande (Director, IIT Kanpur) addressing the students and faculty of RGPT and Prof. J. P. Gupta (Director, RGPT) is sitting on the dais.

Prof. Sanjay G. Dhande, Director IIT Kanpur, during the Rajiv Gandhi Lecture series (August 20, 2011) focused on the idea of multi-dimensional development of a person, when he spoke about the current Indian education system and the challenges facing it. He highlighted the inability of the Oxbridge (Oxford Cambridge) model of education in meeting the needs of the nation. According to him, in the current system, actual learning starts only after a person graduates. Most educational institutions fail to impart anything more than bookish knowledge to their students. Education has almost become rote based. A multi-dimensional lateral education system which emphasized the development of listening, reading, speaking and observation abilities rather than enhancing the wrinkles of the cerebrum could constitute a good education system according to

Prof. Dhande. He also highlighted the Q2 (Quality and Quantity) problem i.e. the increase in the number of colleges will not be beneficial to the country if it is not followed by an equal emphasis on quality. But eventually, it is in the hands of the educational institutions to ensure that high standards of academics are maintained.

Issues and Challenges of City Gas Distribution (CGD) Business in India

Department of Management Studies of RGIPT organized a one day Workshop on the "Issues and Challenges of City Gas Distribution (CGD) Business in India" on 29th October 2011. On this occasion, Shri S. K. Kudaisya (Managing Director, Sabarmati Gas Limited), Mrs. Sudha Mahalingam (Member- Distribution, PNGRB) and Shri Vijay Duggal (DGM- Commercial, BPCL) were present as key speakers. The deliberations in the workshop focused on the need to ensuring better customer service and enhancing safety in CGD. The Workshop concluded with a vote of thanks by Dr. S. K. Kar.



Illness to Wellness



The World Health Organization has stated that, 'Health is a state of complete physical, mental and social well-being, and not merely the absence of disease or infirmity.' Hence all of us should endeavour to achieve a state of wellness, for which awareness is a pre-requisite. Dr. Sunil Ullal and his team conducted an 'Illness to Wellness' workshop on August 27-28, 2011 for all the students, faculty members and staff of RGIPT. They talked about preventive medicine and a proactive approach to management of an individual's health. The students were inspired to improve the quality of their life through positive, day to day approach for a long, healthy and active life. Along with this, information was presented on a variety of subjects related to health, food and nutrition, exercise, self-care, medicine along with other various beneficial wellness tips.

Stress Management by Bhagwat Geeta

Stress has become the most talked about aspect of modern life today. Marcus Aurelius said "If you are distressed by anything external, the pain is not due to the thing itself, but to your estimate of it; and this you have the power to revoke at any moment." Hence stress can be managed by controlling the response of an individual. This was emphasized by Dr. G. K. Singh, in his lecture on 'Stress Management by Bhagwat Geeta', delivered on 9th August, 2011. Dr. Singh, Former Head Orthopedics, Chhatrapati Sahuji Maharaj Medical University, Lucknow is currently Director, AIIMS, Patna. He said that the Lord mentions the importance of action and insists that man should not focus on the result. In the modern times, too much emphasis on results is contributing to increasing levels of stress. He therefore extolled the students to work honestly and perform their actions in the spirit of an offering to GOD, leaving the results to His discretion. This will prevent one from coming under undue stress and will lead to greater satisfaction in the performance of one's tasks.



Protecting Intellectual Property Rights



A two-day workshop on 'Intellectual Property Rights' was organized at RGIPT on 25th-26th February, 2012 by Prof. Ashok Mittal, MHRD IPR Chair Professor, IIT Kanpur, and Shri Amit Shukla (IPR Lawyer). During the workshop Prof. Mittal introduced the concept of Intellectual Property and patents. He outlined the various laws that govern intellectual property in the world. Mr. Amit Shukla then conducted various exercises with students and faculty members on how to read a patent, fill a patent form and apply for patents. It was a great learning opportunity enriched by experience sharing by other faculty members.

Effective Teaching



Prof. Vijay Gupta delivering lecture on effective teaching.

Whenever there is any talk about effective teaching, there is an underlying belief that the dialogue will stress on the methods and pedagogy of taking a class, and thereby helping the students. However effective teaching is not essentially for the benefit of the student alone, though of course, he would be one of the beneficiaries; but the greatest benefit accrues to the teacher. A famous Latin proverb summarizes this aptly, 'By learning you will teach; by teaching you will understand.' Prof. Vijay Gupta, Director, G. D. Goenka World Institute, in his two day Workshop on Effective Teaching organized for all faculty members on 6th-7th August, 2011 stressed on this learning outcome. The workshop was focused on the following areas :

- Teaching & Learning Processes in Engineering
- Academic Objectives of an Engineering Programme and other similar topics
- Teaching of Engineering

Prof. Gupta emphasized the need for designing courses with clear cut learning outcomes in mind. He said that we need to put down in writing what the students are expected to learn from the course. Once learning outcomes are properly understood both by the teacher as well as by the student, the process of learning becomes more enjoyable and fruitful.

Software Training

Knowledge of latest software is an important necessity for effective learning. Hence, going beyond the mandate of individual courses, the institute has made vigorous efforts to train students in latest software.

- A two-day workshop on ANSYS software was organized for B. Tech. (Chemical Engineering), on October 22-23, 2011.
- CADD Centre (Lucknow) conducted a ten-days training programme on Auto CAD from 15th to 24th December, 2011. The knowledge of graphics is very important in engineering disciplines. From planning/ designing of industry to flowing of material, it has use in many areas. Dr. Susham Biswas, Shri Saurabh Shukla, Shri Deepak Asthana, Shri Anil Kumar Verma and Shri Aswini Kumar had participated in the training programme. Drawing and designing of 2D and 3D objects were covered in training with an orientation to industrial applications. Students have also been trained on other software such as Geo-EAS, Matlab, Maple, AutoCAD, Civil 3D, CMG: UT-Chem, IMEX.



RGIPT students during software training.

AWARDS

B-School Leadership Award

Rajiv Gandhi Institute of Petroleum Technology (RGIPT) earned accolades at the Innovative B-School Awards presented by DNA and Stars of the Industry group. The "B-School Leadership Award" was presented to the institute in recognition of its leadership, development, innovation and unique industry interface for its MBA programme at a ceremony held on 18th February, 2012 in Mumbai. Shri D. M. Reddy, President, Board of Governors, RGIPT and Executive Director, Bharat Petroleum Corporation Limited received the award on behalf of the institute. A couple of alumni of RGIPT were also present.

On this occasion, Shri Reddy spoke about RGIPT's vision of bridging the gap between the academic and corporate world. He emphasized how the curriculum had been designed to establish industry interaction at every stage thereby instilling practical know-how in the course which would help the students in the long run. He also communicated to the audience the institute's expansion plans at Siva Sagar, Assam.

PENS 2012 Award to RGIPT Student Chapter

Petrotech RGIPT Student chapter has won two awards in the Petrotech Annual Convention cum National Symposium (PENS2012) at ISM Dhanbad. There were two events where students from various student chapters had participated. First was Presentation on "Hydrocarbon and Beyond-Changing Landscape". Eight student chapters had participated in the competition. RGIPT student chapter won the second prize. Another competition was- Cairn Case Study. Eighteen teams participated in the case study competition and the RGIPT team won the third prize.



(From left to right): Neha Gupta, Rajat, Anurag Kr. Sinha, Nirjhor Chakraborty, Kumar Vaibhav, Dr. Satish Kr. Sinha (Faculty, RGIPT), Vasundhara and Shubham Gupta with PENS2012 prize.

SPE Student Chapter of the Month Award

SPE Student Chapter of Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Rae Bareilly has been given the "Student Chapter of the Month" award for the month of November 2011 by the Society of Petroleum Engineers (SPE) International. The RGIPT student chapter was given the award after careful consideration of event reports from over 200 fellow SPE Chapters from around the globe. The RGIPT Student Chapter in its socially responsible endeavours has started educating deprived children, in a nearby village. The chapter also worked towards spreading awareness among new generation about the importance of energy. It has also been engaged in various activities like organizing blood donation camps, poster and paper presentation competitions, career guidance workshops for schools in and around the city, as well as organizing lecturer session of industry experts, for gaining firsthand knowledge of operations of energy companies. The chapter aims at scaling new heights under the able guidance of Dr. Satish Kumar Sinha.

Best Teacher Award

The Best Teacher Award was conferred to the following faculty members :

Dr. Amit Ranjan for 2010-11 (2nd Semester)

Dr. U. Ojha for 2010-11 (1st Semester)

The awards were conferred to both the faculty members by Mr. D.M. Reddy, President, Board of Governors, RGIPT on August 27th, 2011, in a simple ceremony.

Dr. Satish Kumar Sinha has been named the Best Teacher for 2011-12 (1st Semester).



Dr. Amit Ranjan (Asst. Prof.) receiving award from Mr. D. M. Reddy, President RGIPT.



Dr. Uma Prasanna Ojha (Asst. Prof.) receiving award from Mr. D. M. Reddy

Students Achievements



Nilesh Kumar Jha (M. Tech. in Petroleum Engineering) secured 2nd position (MS Division) in the SPE-Sub Regional Paper Contest (India and Bangladesh) 2011, held at UPES, Dehradun on 10th-11th December 2011. He had presented paper on "Permeability Estimation through Alternating Conditional Expectation Algorithm and Geologic Modeling of the MB Sand Field, Cambay Basin, India".



Vaisakh S. Unni (B. Tech. 4th year) has been awarded with SPE STAR Scholarship by Society of Petroleum Engineers (SPE) International for his excellent academic performance and interest in petroleum engineering.

Scholarships

Chevron-Jeet Bindra Scholarship was awarded to seven B. Tech. students. Out of that, 5 students were from B. Tech. Petroleum Engineering and 2 students were from Chemical Engineering streams. RGIPT Scholarships were given to 25 B. Tech. and MBA students on the basis of their academic performance in the 2011-12 sessions. The ONGC Scholarship was awarded Mr. Varun Yadav of B. Tech. 4th year (Petroleum Engineering) for their meritorious academic performance.

Distinguished Lecture by Prof. S. B. Misra

Very rarely does one get the opportunity to come face to face with greatness. RGPT grabbed this opportunity when the institute played host to Prof. S. B. Misra and Mrs. Nirmala Misra, who have dedicated their entire lives for spreading education in a remote village near Lucknow. Prof. Misra is a geologist by training and discovered the oldest recorded of multi-cellular life on earth, which have been named after him as 'Fractofusus misrai', in Canada. However, his greatness lies not only in the unique academic work that he did, but in his courage to leave his academic career at its peak and return to his village to open a school for the children there. Known as the Bhartiya Grameen Vidyalaya, the school has brought education within the reach of poor villagers. No longer do children of this village tread miles to go to school. They are given quality education near their homes at no cost. The school does not charge any fees from children. Another heartening development has been the increase in enrollment of girls in the school. Prof. Misra has chronicled the journey of his life in a book titled 'Dream Chasing.' Listening to him the words of Booker T. Washington came to mind, "Success is to be measured not so much by the position that one has reached in life as by the obstacles which he has overcome".

Seminar Speakers

RGPT has also invited following industry experts for the guest lectures at RGPT to enrich the knowledge of the students :

- Mr. A. S. Mani, MABNAFT
- Dr. A. Datta-Gupta, Professor & LeSeur Chair in Reservoir Management, Texas A & M University USA
- Dr. Ashok K. Mittal, IIT Kanpur
- Prof. B. Chandra, IIT Delhi
- Mr. Bipin Vora, Honeywell
- Mr. Bishwajeet Roy, GM(HR), IOCL
- Mr. Chaman Lal, GM, KDMIPE, Dehradun
- Mr. Gautam Datta, IOCL
- Dr. Debashish Panda, Waseda University, Japan
- Prof. J.K. Gehlawat, Former Professor, IIT Kanpur
- Dr. Mohan Raja, Kings Saud University, S.Arabia
- Mr. Navpreet Singh, IIT Kanpur
- Dr. Prawal Sinha, IIT Kanpur
- Mr. Ranjeet Singh, Rae Bareilly
- Prof. Sam Mannan, Regents Professor & Director, Mary Kay O'Connor Process Safety Center, Texas, USA
- Mr. Swaraj Puri, Ex-Director General of Police, Government of M.P.
- Prof. Yang, President Yuntech University Taiwan
- Dr. Soma Dey, Asian Business School, Bhubaneswar

Research Collaboration



Dr. Uma Prasanna Ojha, Assistant Professor, RGPT has collaborated with Prof. Bridgette Budhlall, Assistant Professor, UMASS Lowell, USA on 'Development of new shape memory polymers for bio-medical application. He also collaborated with Dr. Ashootosh V. Ambade, National Chemical Laboratory, Pune on 'Preparation of cross-linked epoxy networks for gas storage application.'

Research Infrastructure at RGPT

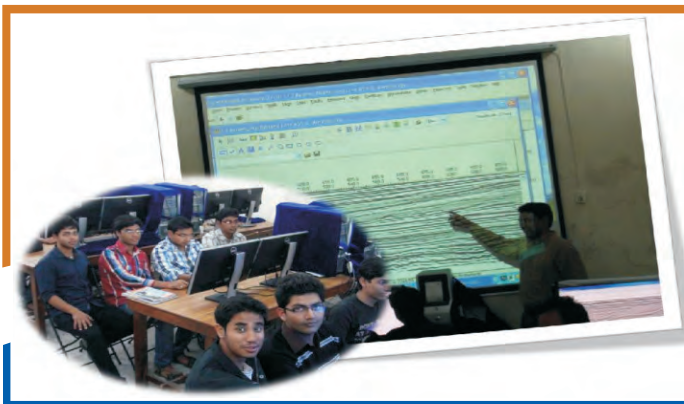
Chemical Engineering Laboratory



RGPT has procured latest equipment to set-up two Chemical Engineering Unit Operation Laboratories. The two laboratories cover most of the Chemical Engineering areas such as Reaction Engineering, Heat Transfer, Mass Transfer, Fluid Flow, Fluid Particle Systems, Thermodynamics & Process Dynamics and Control.

Non-Conventional Energy Laboratory

A research laboratory has been established by Dr. Atul Sharma and Dr. Amritanshu Shukla for undertaking research in the area of solar and other non-conventional energy sources. The lab is well equipped with instruments like Differential Scanning Calorimeter (DSC), Data Acquisition Unit and other relevant apparatus. Currently, a DST sponsored project is underway in the lab.



Exploration and Prospecting Laboratory

RG IPT has established an exploration and prospecting lab with state-of-the-art technologies. There are thirteen workstations in the lab with dual monitor set up and a projection system. The Dell T7500 workstation is fitted with Xeon processor, 24 GB RAM, and graphics card with 6GB memory. Large size of memory helps in better visualization of 3D seismic datasets. Each workstation is attached with two monitors (24 inches each) via HD cable. Seismic Micro Technology has donated KINGDOM software to the institute. The software is being used for teaching seismic data analysis for reservoir characterization.

Beyond Borders.....

RG IPT at 20th World Petroleum Congress

20th World Petroleum Congress was organized during 4th to 8th December, 2011 in Doha, Qatar. The theme of the Congress was "Energy solutions for all: Promoting cooperation, innovation & investment". Two students from RG IPT, Rae Bareilly presented papers at the WPC. Mr. Vaisakh S. Unni (B. Tech. Petroleum Engineering, Final year) presented a paper on "Advances in aphron based drilling fluid technology" under "Drilling & completion technologies applied to challenging reservoirs" forum, whereas Mr. Anne Vijay (B. Tech. Chemical Engineering, 3rd year) presented two papers with Mr. Unni on "Advances in application of artificial intelligence in drilling" under

"Unconventional high tech. applied to the upstream" forum and on "Automatic calibration of real-time computer models in intelligent refining process control systems & increase efficiency in the end products" under "New refinery technologies to meet feedback flexibility, transportation, fuel demand & quality" forum. They also attended India's Petroleum Minister Shri S. Jaipal Reddy's Ministerial session on "NELP-9 issues and ramping up inward investment to India". The students attended the Congress under the guidance of Prof. J. P. Gupta, Director, RG IPT.

Indo-Yale Higher Education Leadership Programme



Prof. J. P. Gupta visited institutions of higher learning under the banner of India-Yale Higher Education Leadership Programme to promote deeper linkages in the area of higher education between India and United States. The programme was supported by the University Grants Commission of India and the Ministry of Human Resource Development and was developed in partnership with the Indian Institute of Technology, Kanpur and the Indian Institute of Management, Kozhikode

The programme was attended by 26 Vice Chancellors, institute directors, deans and other officials of higher education institutions in India, held on the campus of Yale University in New Haven, Connecticut from Sep 25 to October 2011. It also included field visits to other public and private institutions in the region.

Students-Industry Interface

- B. Tech. 8th semester (Chemical Engineering) students visited IFFCO Plant Phoolpur Allahabad on 23rd March, 2012, along with two faculty members, namely, Dr. A. K. Choubey and Dr. Atul Sharma.
- B. Tech. 6th semester (Chemical Engineering) students visited Indian Institute of Petroleum and Indian Glycol Company, Dehradun on 2nd -3rd April, 2012 along with two faculty members, Dr. M. S. Balathanigaimani and Dr. U. Ojha.
- B. Tech. 4th semester (Chemical Engineering) students visited IOCL (R&D Centre) and IOCL Panipat Refinery on 22-23 March, 2012 along with two faculty members, namely Dr. Amit Ranjan and Dr. Rakesh Kumar.
- B. Tech. 4th semester (Petroleum Engineering) and M. Tech. students visited KDMIPE and IDT, ONGC Dehradun, on 26-29 March 2012 along with two faculty members, namely Dr. Alok Singh and Prof. C. K. Jain
- MBA students visited IOCL, Panipat Refinery on 31st March, 2012 under the supervision of Shri Saroj Mishra and Dr. Jyoti Prasad Chakarborty.

Alumni in the Industry

RGPT has been fortunate to have its students working for leading companies of the energy sector. Since its inception two MBA batches have passed out and this year the first batch of engineering students will graduate and join the industry. The industry's response to our students has been encouraging and the major recruiters are given below :

- Accenture Services Private Limited
- Bharat Petroleum Corporation Ltd. (BPCL)
- Bharat Oman Refinery Ltd. (BORL)
- Cholanmandalam MS Risk Services
- Engineers India Ltd. (EIL)
- Gas Authority of India Ltd. (GAIL)
- Hindustan Petroleum Corporation Ltd. (HPCL)
- Hindustan-Mittal Energy Ltd. (HMEL)
- Indian Oil Corporation Ltd. (IOCL)
- Infraline Energy Research and Information Services
- ICICI Bank
- Oil & Natural Gas Ltd. (ONGC)
- Oil India Limited
- Sabarmati Gas Limited

Summer Internship

Summer internship is an integral part of professional learning and the institute ensures that the students are given the best learning opportunities during this time. RGPT has been fortunate to get support from major organizations in providing summer internship to our students. Students have worked with the following companies during their summer internship:

Chemical Engineering	Petroleum Engineering	Management
<ul style="list-style-type: none"> • IOCL (R&D Centre, Faridabad) • IOCL (Mathura & Barauni Refineries) • Indian Institute of Petroleum, Dehradun • BPCL Refinery, Mumbai • MRPL Refinery, Mangalore • GAIL (India) Ltd. • HPCL Refinery, Mumbai • CSMCRI 	<ul style="list-style-type: none"> • WSS, ONGC, Ahmedabad • IRS, ONGC, Ahmedabad • IDT, ONGC, Ahmedabad • IOGPT, ONGC, Mumbai • KDMIPE, ONGC, Dehradun • GEOPIC, ONGC, Dehradun • DGH, Noida • GSPC, Gujarat 	<ul style="list-style-type: none"> • BPCL • GAIL (India) Ltd. • HPCL • IOCL • Petronet LNG • Infraline Energy Research and Information Services • IGL • MRPL • Maharashtra Natural Gas Limited

Short term course on Well Test Analysis for Industry Executives

A short course on Well Test Analysis for the executives of Oil India Limited (OIL) and ONGC Limited was conducted at RGPT, Siva Sagar, Assam on 27-29th March, 2012 by Prof. U. S. Prasad and Dr. S. K. Mishra. 15 participants (9 from OIL and 6 from ONGC Ltd.) have attended 3 days course and shared their knowledge with faculty members to update their skill. These participants were from production, drilling, reservoir and chemical engineering background.

Arpan- The Beauty of Giving

Winston Churchill once said, “We make a living by what we get. We make a life by what we give.” We at RGIPT want to help our students to not only make a living but also to build a fulfilling life. Arpan is an effort by the student community and encouraged by the institute, to add value to the lives of poor children around the campus. As a part of social responsibilities, students have undertaken the task of teaching the nearby children and helping them by donating books and stationery. They also brightened the Diwali of these children by distributing sweets and crackers to them.



School children of Balapur village (Rae Bareli) participating in the musical chair game, organized by RGIPT Arpan club.

'Kaltarang' Cultural Fest



Life on the campus turns most vibrant during a cultural fest. The spring in the steps of the students was most evident during the two day annual cultural and sports festival of RGIPT – Kaltarang, which was celebrated on 1st and 2nd October 2011. Students from six institutes (Feroze Gandhi Degree College, Feroze Gandhi Institute of Engineering and Technology, Footwear Design & Development Institute, Indira Gandhi Rashtriya Udan Academy, National Institute of Pharmaceutical Education & Research and Rajiv Gandhi Institute of Petroleum Technology) of Rae Bareli participated in the two days program.

The tone of the programmed was set by the Ganesh Vandana which was followed by various events like quiz, debate, extempore, Dill Mile, and Antakhshari. Simultaneously, various sports competition- Volleyball, Basketball and Tennis were also organized. However, the main attraction of the fest was FIZOOLKHARCH – a band performance by RGIPT students.

"Brain Bowl" a Quiz Programme @ RGIPT

RGIPT Petrotech student chapter had organized its maiden Quiz programme “Brain Bowl” in the month of November 2011, to test the Petroleum industry related knowledge of students. Programme was organized in two rounds: Preliminary & Final. Participants of the quiz programme were divided into 4 teams by lottery system. The Preliminary round was held on 3rd November 2011, individually for each year students and out of that top four scorers were selected from each year for next round. In this round, general questions were asked.

Final round was held on Sunday 6th November, 2011 and in this round questions were asked from petroleum industry. For this round, 4 teams were formed with each team consisting of 4 members (1 member from each year in each team) and it had 4 rounds- Buzzer, Technical, Audio/Visual & Rapid fire. The result of the event was as follows :

Winners : Black Paradise

1. Mr. Gulshan Kumar
2. Mr. Jaspreet Singh
3. Mr. Puneet Kumar
4. Mr. Shitanshu Gupta

Runners up : Kerogen

1. Mr. Aditya Singh
2. Mr. Abdul Ansari
3. Mr. Sai Deep
4. Mr. Imran Ul Haq

Sportsmanship

The institute has constantly promoted the sporting spirit amongst its students, and has provided the necessary support by means of sports infrastructure and coaches to guide the students. Various sports competitions are organized regularly and students are encouraged to participate in sports competitions at other renowned institutes also. Neelam Dinesh Reddy, B. Tech. 3rd year made RGIPT proud in Udgosh 2011 (Annual Sports Festival, IIT Kanpur) by winning Gold medal in Discus Throw and Silver medal in Shot-put.

RGIPT team also participated in Inter-College sports meet "Kalpvai-2012" at Feroze Gandhi Institute of Engineering & Technology (FGIET), Rae Bareilly on 5-7 February 2012 and won 8 Gold, 5 Silver and 2 Bronze medals. RGIPT team won Gold medal in Shot-Put, TT-Doubles, TT- Mixed Doubles, Badminton (Men's), Chess (single), Sports Quiz, Football and Basketball. Students also participated in the sports meet of BHU, Varanasi in 25-27 Feb. 2012 and MNIT, Jaipur from 17-25 Feb. 2012.



Students at the basket ball court.

Faculty-Students Development Activities

Faculty and students of RGIPT actively participate in different national level workshop/ seminar for knowledge sharing and institutional collaboration. Details of such workshops are given below :

- ❑ **Dr. U. S. Prasad** participated in the 'Higher Education Summit 2011: Strategies for expansion in Higher Education in India' in New Delhi from 11th to 12th November 2011. It was organized by Federation of Indian Chambers of Commerce and Industry (FICCI).
- ❑ **Dr. Jaya Srivastava** participated in the conference 'Indian Business through the ages' in New Delhi from 12th to 13th December 2011 and presented paper on 'Gandhian Model of Economic Development: A Critique'. It was organized by Faculty of Management Studies (FMS), University of Delhi. She also participated in the International Seminar on "Ethics, Morality & Spirituality" organized by Delhi School of Professional Studies & Research on January 4-5, 2012 and presented a paper entitled 'Gandhian Paradigm of Workplace Spirituality for Modern day Organizations.' Dr. Srivastava also participated in a one week Management Teachers' Programme on Strategic Management (Foundation Course) from 2-6 April, 2012 at IIM Bangalore.
- ❑ **Dr. Navnit Jha** participated in 'National Conference on Mathematical and Statistical Modeling in Innovative Area' in Ranchi from 19th to 20th October 2011 and presented paper on 'Parallel Computing and Non-Polynomial Spline Approximations of Non-linear two Point Boundary value Problem.' It was organized by Department of Applied Mathematics, Birla Institute of Technology (BIT), Mesra, Ranchi.
- ❑ **Dr. Jyoti Prasad Chakraborty** participated in Chemcon-2011 in Bengaluru from 27th to 30th December 2011 and presented paper on 'Production of Biodiesel from third generation feed stocks'. It was organized by Indian Chemical Engineering Congress (CHEMCON) and theme of the conference was 'Chemical Engineering in Synergistic Growth'.
- ❑ **Dr. Durga Nath Dhar** participated in the National Conference on "Emerging Trends of Active/ Smart/ Nano materials", held at Feroze Gandhi Institute of Engineering & Technology, Rae Bareilly (U.P.).
- ❑ **Dr. Uma Prasanna Ojha** participated in Industry Academia Interface Workshop 'A-Z of Natural Gas and LNG' at Petronet LNG Limited, Gujarat from 19th-21st October, 2011.
- ❑ **Dr. Amit Ranjan** participated in XVI International Workshop on the Physics of Semiconductor Devices at Kanpur. It was organized by Indian Institute of Technology Kanpur and Semiconductor Society of India from 19th – 22nd December, 2011.
- ❑ **Dr. Chanchal Kundu** delivered an invited talk on Reliability at the XXXI Annual Convention of Indian Society for Probability and Statistics (ISPS) and International Conference on Statistics, Probability and Related Areas held at Department of Statistics, Cochin University of Science and Technology (CUSAT) from 19th-22nd December, 2011. The title of the talk was "Some characterizations of distributions based on past inaccuracy measure."



- ❑ **Dr. Kavita Srivastava** participated in one day course on "Organization Structure, Systems and Culture for TQM" organized by IIT Kanpur on 14th January, 2012.
- ❑ **Dr. Sanjay Kumar Kar and Nilanshu Dutta** (MBA 1st year) presented paper on "Energy & Infrastructure Management: Opportunities, Challenges and Strategies for Sustainable Energy" at International Conference on Energy and Infrastructure (ICEI- 2012) held on 3-4 January 2012. It was organized by Pandit Deendayal Petroleum University (PDPU), Gandhinagar, Gujarat.
- ❑ **Kshitiz Saini & Abhishek Sharma** (Both B. Tech. 3rd year students), **Rakesh Kumar** (Faculty RGIPT) presented paper on "Bulk CO₂ removal from natural gas: Modeling and simulation" at International Conference on Energy and Infrastructure (ICEI-2012) held on 3-4 January, 2012 at Gandhinagar, Gujarat.
- ❑ **Nitin Soni, Abhishek Mandal, Kshitij Saini, Rakesh Kumar** presented paper on "Process simulation of H₂S removal from the natural gas", at Offshore India/ Unconventional Oil & Gas India Conference held on 14-16 September, 2011 in Mumbai, India.
- ❑ **Shri Vaisakh S. Unni** (B. Tech. Petroleum Engineering, Final year) and **Shri Anne Vijay** (B. Tech. Chemical Engineering, 3rd year) have presented papers at 20th World Petroleum Congress organized by World Petroleum Council in Doha, Qatar from 4th to 8th December, 2011. Theme of the Congress was "Energy solutions for all: Promoting cooperation, innovation & investment".
- ❑ **Shri Nitesh Roy and Shri Tapan Kumar Pradhan** (B.Tech. Chemical Engineering) had represented RGIPT in 13th International Conference of the International Academy of Physical Sciences and delivered talk on "Biotechnological Refining of Petroleum." It was organized by University of Petroleum and Energy Studies (UPES) in Dehradun from 14th-16th June, 2011.
- ❑ **Suman Saurabh and Shubham Gupta** (B.Tech. Petroleum Engineering, 3rd year students) presented poster on "An overview on coal quality assessment & CBM status in India" at World Petro Coal Congress (WPCC-2012) held in New Delhi on 15-17 February, 2012. It was organized by Energy and Environment Foundation in collaboration with Union Ministry of Petroleum and Natural Gas, Ministry of Earth Science and Ministry of Power. They also presented poster on "NMR Logging Tools: An answer to multiple constraints of conventional logging tools; Principle, applications & benefits."
- ❑ **Nirjhor Chakraborty & N. Dinesh Reddy** (B.Tech. Petroleum Engineering, 3rd year students) and **Aditya, Dushyant Gandotra & Shitanshu Gupta** (All B. Tech. Petroleum Engineering, 4th year students) presented paper on "Mobility Control and its effect on oil recovery in ASP flooding" in Petrofest-2011, held on 27-29 December, 2011 at Delta Studies Institute, Vishakhapatnam.
- ❑ **Abhishek Dwivedi** (B. Tech. Chemical Engineering, 4th year) and **Tarun Solanki & Shashank Singh** (Both B. Tech. Chemical Engineering, 3rd year students) presented paper on "Oil refinery fluid cracking unit: Associated environment problems and subsequent solutions" in Conference on Technological Advancements in Chemical and Environmental Engineering (TACEE-2012) held on 23-24 March 2012 at BITS-Pilani, Rajasthan.
- ❑ **Atul Sharma & A. Shukla** (Faculty, RGIPT) and **Suman Saurabh & Abhinav Sharma** (B.Tech. 3rd year students) presented paper on "Review on phase change materials for thermal applications" in Solar Energy Conference and Exhibition (2012) and Indo-Italian Workshop (2012) held on 7-9 February, 2012 at Banaras Hindu University (BHU). It was organized jointly by Bag Energy Research Society (BERS), Indian Institute of Technology Delhi (IITD) and Banaras Hindu University (BHU).

Research Publications

1. **Ojha, U.,** D. Cozzens, Ruths Luk, M.; Faust, R., "Surface Characterization and Protein Interactions of Segmented Poly-isobutylene-Based Thermoplastic Polyurethanes", *Langmuir*, 2011, 27, 14160-14168.
2. **Ojha, U.,** R. Tripathy, R. Faust, "Poly-isobutylene modified bisphenol- A diglycidylether based flexible and transparent epoxy resins possessing improved mechanical properties and Macromolecules", 2011, 44, 6800-6809.
3. **Choubey, Abhay Kumar,** "Aspirin: A Wonder Drug", *Journal of Pharmacy Research*, Vol.4, No.10 (2011).
4. **Kumar, Rakesh,** Ashok Khanna, Anil Kumar, "Synthesis, characterization and kinetics of AlCl₃ supported on silica superacid catalysts for the formation of linear alkylbenzenes", *Reaction Kinetics, Mechanisms and Catalysis*, 2011, DOI: 10.1007/s11144-011-0416-y.

5. **Sharma Atul, Jaya Srivastava, Sanjay Kar & Anil Kumar**, "Wind Energy Status in India: A Short Review", Renewable & Sustainable Energy Reviews, Vol. 16 (2), 1157-1164 (2012).
6. **Srivastava Jaya & Atul Sharma**, "Effective Energy Management: A Step towards a Greener Earth", UPES Management Review Vol.1 (1), (2012)
7. **Ranjan, Amit**, Manish Kulkarni, Alamgir Karim, and Ashutosh Sharma, "Diblock copolymer lamellae on sinusoidal and fractal surfaces", The Journal of Chemical Physics, Vol.136, Issue 9 (2012).
8. **Patil Sandip, Amit Ranjan**, and Ashutosh Sharma, "Prefracture Instabilities Govern Generation of Self-Affine Surfaces in Tearing of Soft Viscoelastic Elastomeric Sheets", Macromolecules, 2012, 45 (4), pp 2066–2073.
9. **Srivastava, K.** and Sharma, N. K., "Exploring the Multidimensional Role of Involvement and Perceived Risk in Brand Extension", International Journal of Commerce and Management, Vol.21 (4) pp. 410-427 (2011).
10. **Srivastava, K.** and Sharma, N. K., "Consumer attitude towards brand-extension incongruity: The moderating role of need for cognition and need for change", Journal of Marketing Management, Vol.-28, Issue 5-6. (2011)
11. **Kar, Sanjay K.** and Subrat Sahu, "Managing Natural Gas Business: A case of Bharat Natural Gas Company Limited", Emerald Emerging Markets Case Studies. (2012)

New Members at RGIPT



Dr. Aditya Tyagi, Ph.D. (Geological Science), University of Western Ontario, Canada has joined RGIPT as Associate Professor (Petroleum Engineering). He has more than 18 years of industry experience working with ONGC, Indian Oil Corporation and State Oil Company of Libya.



Dr. Susham Biswas, Ph. D, Indian Institute of Technology, Kanpur has joined RGIPT as Asst. Professor. He has more than 3yrs experience in industry and academics. His research interests are in the area of Geo-informatics.



Prof. C. K. Jain, has joined RGIPT as Visiting Professor in the Department of Mechanical Engineering. He has more than 30 years of teaching experience at ISM Dhanbad, PDPU Ahmedabad and UPES Dehradun.



Shri Saroj Kumar Mishra, has joined RGIPT as Senior Research Associate in Department of Management Studies. He has submitted Ph. D. thesis on "Predictors of customers' cross-buying intentions in banking services market" at IIT Kanpur. He has about 3 years of teaching and industry experience.



Shri Raghunath Bhattacharya, has joined RGIPT as Deputy Registrar (Administration). He has more than 35 years exp. in administration with different educational institutions and was earlier working with Indian Institute of Information Technology, Jabalpur.



Shri Sudhir Arora, has joined RGIPT as Store & Purchase Officer. He has more than 17 years of experience in Management field at different levels.



Ms. Supriya Misra, has joined RGIPT as Accounts Officer. She has completed her C.A. from ICAI. She is having more than 8 years of experience in the field of Accounts and Finance.



Shri Jitendra Prasad, has joined RGIPT as, Corporate Communication Officer. He has more than 8 years of experience in Private and Government organization.



Shri Lokesh Bhatnagar has joined RGIPT as IT Assistant. He has more than 10 years of exp. in the field of Network Administration.



Shri Ratanvir Gujral has joined RGIPT as Lab Superintendent in the Department of Chemical Engineering. He has done his ITI in Refrigeration and Air Conditioning from Kanpur. He has more than 40 years of work experience with IIT Kanpur.

Editorial Board

Dr. Jaya Srivastava
Jitendra Prasad



RGIPT in Pictures



Passing out batch of B. Tech. (Petroleum Engineering) 2008-2012.



Passing out batch of B. Tech. (Chemical Engineering) 2008-2012.



Passing out batch of M. Tech. (Petroleum Engineering) 2010-2012.



Passing out batch of MBA (Petroleum & Energy Management) 2010-2012 with faculty.



RGIPT students flying kite with Director Dr. J. P. Gupta on the occasion of Independence Day.



Dr. J. P. Gupta (Director, RG IPT) delivering speech on the occasion of Republic Day.



B.Tech.(Chemical Engineering) students with faculty member during industrial visit at IOCL Panipat.



Blood Donation Camp organised by RG IPT SPE Student Chapter.



Rajiv Gandhi Institute of Petroleum Technology

(Institute of National Importance established under the Act of Parliament)

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