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# energy

NEWS



cover story

## Memories reloaded Rendezvous@UPES

2nd Alumni Reunion

24th - 25th December, 2011



The 1st Power HR Round Table



**HYDROGEN  
ECONOMY**

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## Rendezvous@UPES

The students of yesterday and professionals of today came home on 24th & 25th December 2011. Proudly hosting its 2nd Alumni Reunion, UPES invited its alumni at Energy Acres to cherish fond memories and furthermore, to strengthen the bond with the Alma Mater.

The engagement charter for them was laid for two days. On arrival, the initial encounters were stilted as they came together and saw amazing and mesmerizing beauty of the Campus. Everyone acknowledged that drastic alteration and modifications had truly added charm to the beauty of the Campus. And thus, the Campus visit turned out exciting and thrilling as it reeled out the huge transformation since they were gone.

The visit accompanied the momentous occasion when alumni met their professors and displayed their reverence for them. "Sharing experiences with faculty members was really very touchy moment", said an alumnus. "We swell with pride to see that its alumni are currently working with almost all top companies in various sectors", said a professor.

A very special session was organized to take the views of alumni about the expectations of the Industry from a fresh Graduate / Post Graduate who just steps into the shoes of trainee and looks forward to become a core professional in the field of his / her interest. It was indeed very encouraging to see that the alumni took keen interest to guide students of graduating batches and provide them insights regarding the pace at which the world is witnessing changes in various sectors.

The cricket match of 10 overs was fun. It rejuvenated energy among everyone. In the evening the interaction with seniors, batch mates, juniors and faculty members was productive and enjoyed by all. The evening was also made memorable by the University's very own Band 'Morphine' and Dance Group 'Plague Revised'. Together they ensured that the audience at Alumni Reunion carries back fond memories of UPES and its fraternity.

*The career progression of alumni reflects the true feedback of the institution they belong to. Infact, the progress chart of the alumni shows in depth knowledge of its faculty and their caliber to impart and pass on the knowledge to the students. It also signifies the passion and commitment of an academic institution toward its students.*

Cover picture: An assembly of almuni, faculty and staff during Almuni Reunion



# Return of the AMBASSADORS

2nd Alumni Reunion on 24th - 25th December, 2011

*Alumni form the interface between Academia and Industry. They are considered to be the most reliable source to know what is that the industry requires from an educational institution when it comes to transforming students of today into hard core and high value professionals of tomorrow.*

A wave of delight engulfed the entire ambience and left sprinkles of happiness in the eyes of everyone; when the Business Cards were pinned by alumni on the "Wall of Faith" (Wall of Faith is a wall at UPES Campus created for Alumni to pin their visiting cards to earmark their existence forever in the hearts and minds of UPESites).

These two days of reunion had not only added smiles on faces but also gave a chance to strengthened the bonding among old friends, faculty and Alma Mater. It augmented affection and asserted the feeling that the bonds are getting stronger day by day, batch by batch, alumni by alumni.



**Kunal Hastawala student of 2008 Batch - MBA (Logistics & Supply Chain Management)**

Presently working as Production Leader Supply Chain for Oxylane shared that "coming back to the campus, again after two years and seeing the University's growth in terms of infrastructure, facilities as well as student strength is very impressive and makes me proud that I am a UPESITE." Kunal assured that Oxylane would like to further strengthen the bond with UPES by visiting the campus for placements every year.



**Aarthy Raman student of 2005 Batch - B. Tech. (Applied Petroleum Engineering)**

Currently working as Engineer Production Optimization in Weatherford, was on an official trip to Dehradun when she came to know about the reunion. Aarthy told that despite her hectic official engagements she could not resist the temptation to meet her friends and faculty at her own campus. During the interaction she said, "Companies do not require only professionals; they need professionals with practical trainings and that is where our carefully organized industrial tours and well planned summer training programs provide us cutting edge over students from other colleges."



**Saujat Ghosh Bansal** working in GMR at Delhi International Airport said that after doing MBA Aviation Management from Gurgaon Campus, he immediately got placed in GMR. He informed, "Aviation industry is growing at a very rapid pace hence there are lots of opportunities for students studying programs related to Aviation". He congratulated the University for launching BBA Aviation Management program.



# HR - A Key Driver to the Growth & Sustainability of Power Sector

The 1st Power HR Round Table, 23rd November, 2011 in Delhi, India

*CEO Panels (L-R): Mr. Ajai Nirula, COO - North Delhi Power Ltd, Mr. Alok Roy, CEO, Reliance Energy Transmission Ltd, Mr. Gopal Saxena, CEO, BSES Rajdhani Power Ltd, Mr. Ashwani Kumar, President-Corporate Development, Reliance Power Ltd, Mr. Ravi Uppal, CEO, L&T Power Ltd, Mr. Tantra Narayan Thakur, CMD, PTC India Ltd, Mr. V.K. Sood, Managing Director, WESCO, NESCO & SESCO, Mr. V.S. Verma, Member, Central Electricity Regulatory Commission*



*(L-R) Hon'ble Chief Minister of Government of National Capital Territory of Delhi, Smt. Sheila Dikshit and Dr. Parag Diwan Vice Chancellor University of Petroleum & Energy Studies at the inaugural session.*

Having done ten successful consecutive series of HR Round Table for Oil & Gas, UPES under the aegis of Indian School of Petroleum & Energy (ISPe) has ventured into a new initiative and extended its expertise to organize an HR Round Table in the most demanded sector of the world today i.e. **Power**.

The promising growth of this sector along with its challenges and opportunities was enforcing to have a forum whereby deliberations can be called out to acquire the understanding of this sector more comprehensively. Consequently, the maiden Power Round Table on "HR - A Key Driver to the Growth & Sustainability of Power Sector" was organized in Delhi on 23rd November 2011.

Enthusiasm among participants & attendees resonated, when Hon'ble Chief Minister of Government of National Capital Territory of Delhi, Mrs. Sheila Dikshit had performed the inaugural ceremony. Mrs. Dikshit lighted the lamp signifying the beginning of series of discussions in this sector that would spread awareness and knowledge about power.

Stating the importance of basic requirement of power to eradicate poverty, Mrs. Dikshit cautioned that with the growth rate of 20% in power consumption, the consumer should be ready to pay more. Mrs. Dikshit insisted upon the need to educate the consumer about the price hike. She stated that there is a need to invest in alternate energy sources. The ecological balance within the renewable and non-renewable sources of power, is critical; hence, she insisted that the growth in energy sector has to be balanced with the growth in ecology. She said "We have many challenges and aspirations. The challenges and the aspirations have to be met and above all the ecology and conservation have to be taken in account also".

Setting the tone of the deliberations, Dr. Parag Diwan, Vice Chancellor, UPES came upon the desk. Quoting a research on growth of power sector in relation to the growth of GDP of countries across the Globe, Dr. Diwan said that India, the fourth largest economy of the world, needs high growth power sector to fuel the GDP. Enumerating various problems of power sector he stated that the human resource is sharing an active responsibility in the growth of this sector. Dr. Diwan, then, put forward some of the key human resource challenges related to power sector like lack of talented human resource across the levels and value chain, lack of infrastructure for training, poaching, low industry attractiveness, remote location of power plants and downbeat public perception. He appealed the forum to come up with solutions and way forward.



**“We have many challenges and aspirations. The challenges and the aspirations have to be met and above all the ecology and conservation have to be taken in account also.”**



Forwarding this tone further Mr. Ashok Lavasa, Additional Secretary, Ministry of Power (GOI) delivered the Key note address. In his note Mr. Lavasa acknowledged the changes in the sector and stated that power sector orientation has changed from a purely technological sector to commercial sector; and therefore, the necessity of financial orientation is felt like never before. Mr. Lavasa advised that though specialization is the norm in most industries, knowledge integration is critical in this sector. He said, "The segregation of business should not cause segregation of knowledge". He complemented organizers for providing the forum to discuss and interact about the challenges faced by the power sector through this seminar.



*Mr. Ashok Lavasa, I.A.S.,  
Additional Secretary, Ministry of  
Power, Govt. of India delivering  
the keynote address*

## CEO's Panel Discussion

The CEO Panel Discussion was deliberated among Mr. Ajai Nirula, COO, North Delhi Power Ltd., Mr. Alok Roy, CEO-Reliance Energy Transmission Ltd, Mr. Ashwani Kumar, President, Corporate Development, Reliance Power Ltd., Mr. Gopal Saxena, CEO, BSES Rajdhani Power Ltd., Mr. Ravi Uppal, CEO, L&T Power Ltd., Mr. Tantra Narayan Thakur, CMD, PTC India Ltd., Mr. V. K. Sood, Managing Director, WESCO, NESCO & SESCO, and Mr. V. S. Verma, Member, Central Electricity Regulatory Commission.

Under the moderation of the Advisor, UPES Mr. Subhash R. Sethi, the CEO Panel Discussion swivelled around persistent problems of this sector. This special session encouraged deliberations on pertinent, critical and pressing problems surfaced across the value chain of the power sector- especially Distribution. Nevertheless, later all the sessions were categorized under Generation, Transmission and Distribution.

Sharing views on unprecedented growth of the power sector, Mr. Ravi Uppal, CEO L&T Power Ltd. said that it has resulted in unexpected challenges. He said "...the issues of fuel, land and money were never felt because banks were upbeat about financing....." However, he admitted that the realization of going overboard with financing has taken banks by surprise and created a tough credit approval system for contemporary power sector organizations.

Speaking about the strategic challenges for private organizations in power sector, Mr. Ashwani Kumar, President, Corporate Development, Reliance Power Ltd. enumerated that the public sector never had to

deal with financing, which is a major challenge with private sector; and this is against the backdrop that the private sector's contribution is higher in generation than public sector. He also touched upon the "people side of problem" and urged the regulators to create a policy to make fuel readily available. Mr. Alok Roy, CEO, Reliance Energy Transmission Ltd. shared his views and said that the turnaround in the organization was not technical or financial, but was creating a disciplined work force, reinstating the importance of Human resources. As CEO of Reliance Energy Transmission Ltd. in his present role Mr. Roy advocated integrated approach for reforms.

Presenting the success story of NDPL, Mr. Ajai Nirula, COO, North Delhi Power Ltd. spoke primarily on HR issues in PPP model of Distribution companies. He presented a mix of effective human resource management with technology and said that NDPL has created a concrete and actionable vision statement. Stating the governance issues in power sector, Mr. Gopal Saxena, CEO, BSES Rajdhani Power Ltd. informed that "even as we have globalised and our cost of generation is reaching global standards and our aspirations are also aligned to global needs". He further stated that there is a need for creating a more attractive power sector for young engineers.

Mr. V. K Sood, Managing Director, WESCO, NESCO & SESCO said, "the strength of a chain lies in the weakest link and the weakest link in power chain is distribution..... unless we make it strong viable and sustainable". He recommended the ways of creating a strong distribution system and asked the support of all the stake holders in this direction. Discussing the concerns of the lending agencies and the power market of the country, Mr. Tantra Narayan Thakur, CMD, PTC India Ltd. insisted on the point that the stakeholders in power sector must see the big picture for the common good. Mr. V. S. Verma, Member, Central Electricity Regulatory Commission drew the attention of the panel to the biggest challenge and said, "there are no reforms in the decision-making process of the power sector". He further added that the most competent person at the right place is not found and the competence level is going down. He told about the significance of having the right experience mix for creating a power organization with experienced professionals and knowledge base.



*Mr. Subhash R. Sethi,  
Advisor, UPES*

Among other delegates who participated in the Round Table were the professionals from Generation, Distribution, Transmission, State Owned, Joint and Private Organizations. The delegates from Adani Power Ltd., Aditya Birla, Alstom Power, Bhakra Beas Management Board, BSES Rajdhani Power Limited, BSES Yamuna Power Limited, Central Electricity Regulatory Commission, Desein Private Limited, Delhi Transco Limited, Delhi Electricity Regulatory Commission, Dakshin Haryana Bijli Vitran Nigam, ESSAR Power, GMR Energy, Jindal Steel & Power Limited, Lanco Power Limited, L&T Power Ltd. Maharashtra State Electricity Distribution Co. Ltd, Moser Baer, NHPC Limited, Noida Power Company Limited, NTPC Limited, Power Grid Corp. of India Ltd., Reliance Infrastructure Limited, Reliance Power Limited, Reliance Power Transmission Ltd., Shree Cement, SJVN Limited, Tata Power Delhi Distribution Co. Ltd., Tata Power Trading Company Limited and many more were present and contributed in the sessions through their participation.

## Program Sessions

### SESSION-1: HR ISSUES IN INDIAN & INTERNATIONAL CONTEXT

**Speakers:** Mr. Mohinish Sinha, Director, HayGroup India Pvt. Ltd.

Mr. Mohinish Sinha, Director, HayGroup India Pvt. Ltd. presented an extensive research conducted by HayGroup. In this research summary, Mr. Sinha mentioned some of the key HR challenges that are faced by the power sector. The research pinned down the unavailability of manpower and the poaching in public sectors as major HR challenge which had led to depletion of the talent pool. The session inputs were appreciated by the audience and it left a thought provoking impact on them.



Mr. Mohinish Sinha, Director, HayGroup India Pvt. Ltd addressing the workshop

### SESSION-2: HR ISSUES PERTAINING TO PROJECT IMPLEMENTATION/ MANAGEMENT/ENGINEERING PROCUREMENT CONSTRUCTION

**Chairperson :** Mr. S.P Singh, Director (HR) NTPC Ltd.

**Speakers:** Mr. Rakesh Prasad, Dy. General Manager (HR) NTPC Ltd., Mr. Shrikant Lonikar, Joint President and Head (HR), Adani Power Ltd., Mr. Deepak Bhargava, President and Head, Construction - Transmission Projects, Adani Power Ltd., Mr. Saugata Rudra, Additional General Manager (Consultancy), NTPC Ltd., Mr. Ronel Kumar, General Manager (HR) NHPC Ltd., Mr. Sudhir Kulkarni, Head (HR) L&T Power Ltd.

In this session, the deliberations were focused around APDRP and Hydro, HR issues on Project Implementation in Generation Sector, Transmission Sector with special reference to Adani; and Project Implementation of Hydro Projects were discussed in detail during this session.

The project implementation was considered vital especially in context of managing public, government, regulators and employees who take the project to completion. The highlight of this session was informative discussions on various challenges like availability of finance & raw material. This forum also discussed about creating the platforms for human resource to opt for power sector.

In this panel, an interesting mix of organizations in the value chain gave the insights to the audience regarding the challenges being faced by them.

Confirming the role of leadership in developing project organization, Mr. Rakesh Prasad, Dy. General Manager (HR), NTPC Ltd. said, "The leader is the one who assumes the risk of the subordinate". Sharing the Adani story of venturing into the power sector and the HR initiatives to deal with the challenges, Mr. Shrikant Lonikar, Joint President & Head (HR), Adani Power Ltd. said, "it is the people that make all the difference, if people processes are right, everything else falls into line". Recommending the role of HR, Mr. Sudhir Kulkarni, Head (HR) L&T Power Ltd. said, "HR is adding value to the business". He further said that the power sector has a unique set of problems and discussed the way in which employees should be engaged in a project.

Speaking on Transmission, Mr. Deepak Bhargava, President & Head, Construction Transmission Projects, Adani Power Ltd. stated that we need people with the right attitude in the transmission sector and affirmed "availability of labour, particularly in the area of transmission, is a big challenge."

Mr. Saugata Rudra, Additional General Manager (Consultancy), NTPC Ltd. presented HR issues of project implementation in distribution. Mr. Saugata said that "power distribution is facing losses because of non revision of tariffs and free power supply to agricultural sector." Mr. Ronel Kumar, General Manager (HR), NHPC Ltd. shared the HR initiatives by NHPC and stated that the public sector works within the boundaries established.



Mr. S.P Singh, Director (HR), NTPC Ltd



Mr. Rakesh Prasad, Dy. General Manager (HR), NTPC Ltd



Mr. Sudhir R. Kulkarni, Head (HR), L&T Power Ltd



Mr. Deepak Bhargava, President & Head, Construction Transmission Projects, Adani Power Ltd



Mr. Ronel Kumar, General Manager (HR), NHPC Ltd



Mr. Shrikant Lonikar, Joint President & Head (HR), Adani Power Ltd.



Mr. Saugata Rudra, Additional General Manager (Consultancy), NTPC Ltd

“availability of labour, particularly in the area of transmission, is a big challenge.”

“generation Y is not interested in what is offered but what they will become in coming 5 years in the organization and who will they report to.”

### SESSION-3: OPERATIONS AND MAINTENANCE KEY HR CHALLENGES

**Chairperson :** Mr. V. M. Kaul, Director (Personnel), Power Grid Corp. of India Ltd.

**Speakers:** Mr. Rakesh Prasad, Dy. General Manager (HR) NTPC Ltd., Mr. S.V.P Selvakumar, Addl. General Manager (Corporate Operation Services Department), Powergrid Corp. of India Ltd., and Col. Ashok Chauhan, DGM (HR) North Delhi Power Ltd.

In this session, the deliberations revolved around the role of Human Resource in effective operations and maintenance of the power plants, construction of green field power projects, development of the Human Resource department and creation of the right system. Given the diverse nature of power sector operations, the representation was addressed from all the three verticals.

Sharing views on Power Generation, Mr. Rakesh Prasad, Dy. General Manager (HR), NTPC Ltd., spoke about the practices followed in selecting the right human resource in the generation phase in NTPC. Mr. Prasad said “the capability building, competence building, commitment building and system building are the four pillars, on which the HR of NTPC is based.” The best talent in the country does not want to join the transmission sector, said Mr. S.V.P. Selvakumar, Addl. General Manager (Corporate Operation Services Department), Power Grid Corp. of India Ltd., Mr. Selvakumar quoted the result of an analysis on young talent that revealed that “generation Y is not interested in what is offered but what they will become in coming 5 years in the organization and who will they report to”.

Advocating a need for soft skills to cater to the diverse and heterogeneous group of customers, Col. Ashok Chauhan, DGM (HR), North Delhi Power Ltd. stated that “distribution is like retail business and every service of distribution is at door step of consumer as different from generation and transmission”.



Mr. V.M. Kaul, Director (Personnel), Powergrid Corp. of India Ltd



Mr. S.V.P. Selvakumar, Addl. General Manager (Corporate Operation Services Department), Powergrid Corp. of India Ltd



Col. Ashok Chauhan, DGM (HR), North Delhi Power Ltd.

### SESSION-4: TRAINING / CAPACITY BUILDING /WAY FORWARD

**Chairperson :** Mr. V. Subramanian, Secretary General, Indian Wind Energy Association.

**Speakers:** Mr. Rajeev Bhaduria, Director (Group HR) Jindal Steel & Power Ltd., Mr. Andleeb Jain, Vice President, Human Resources, Lanco Power Ltd. and Mr. Sanjay Mishra, Director (HR), Alstom Bharat Forge Power Ltd.

In this concluding session, the Round Table witnessed discussions amongst HR leaders regarding the steps required to be taken to face the challenges and support the organizational objectives. The issues of talent management retention, developing effective training techniques, developing culture of support and trust were also touched in depth during the discussions.



Mr. Andleeb Jain, Vice President, Human Resources, Lanco Power Ltd



Mr. Sanjay Mishra, Director (HR), Alstom Bharat Forge Power Ltd

“The primary role of HR is to partner the business,” says, Mr. Rajeev Bhaduria, Director (Group HR), Jindal Steel & Power Ltd. who spoke on the role of HR in future-focused organizations to make them ‘future proof’. Mr. Andleeb Jain, Vice President, Human Resources, Lanco Power Ltd. touched upon the unemployability of fresh graduates and said that “there is a great mismatch between the requirement and the education.” Presenting his inputs to the forum, Mr. Sanjay Mishra, Director (HR), Alstom Bharat Forge Power Ltd. said, “My appeal to the HR people is to make HR processes very simple.” Mr. Mishra shared the story of Alstom and the strategies implemented to create the brand.

In the Valedictory session, Mr. H. L. Bajaj, Former Member, Appellate Tribunal of Electricity presented concluding remarks and summed up the gist of the discussions by saying that the problems for organizations are more attitudinal than system generated. He cautioned that there is a need to be careful while recruiting human resource with a commitment for life time employment. The continuous training of these professionals should be given prime importance. He said that in order to encourage innovation “allow people to make mistakes” because “we need people who think, innovate, create and are able to work as a team.”

The organizing team was complimented for the efforts put in to organize much needed platform for HR deliberation in power sector. In the concluding remarks, Mr. Navneet Gupta, Vice President ISPe presented the vote of thanks and indebted for the support & guidance received from sponsors.

Our accolades to the entire team & best wishes for next exuberant Power Round Table!



Mr. V. Subramanian, Secretary General, Indian Wind Energy Association



Mr. Rajeev Bhaduria, Director (Group HR), Jindal Steel & Power Ltd



Mr. H. L. Bajaj, former Member, Appellate Tribunal of Electricity

# SPE Sub-regional Paper Presentation Contest

Two parallel sessions were organized consisting three judges in each panel.



The students of UPES who participated in the annual SPE Sub Regional Paper Presentation Contest with Chief Guest & UPES faculty

To showcase the skills and capabilities among students of the representative regions, the annual SPE Sub Regional Paper Presentation contest was hosted by the UPES SPE Student Chapter on 10th & 11th December 2011. The Chief Guest of the occasion Mr. Shailendra Dutta, Head IDT, ONGC, Dehradun inaugurated the contest. Mr. Dinesh Kumar - Secretary, SPE North India Section along with other judges, Dr. A.K. Manchanda, Dr. N.S. Rawat, Dr. Anil Kumar, Ms. Minnie Gogia, Mr. Ashok Kumar and Mr. Ajay Kumar were also present to grace the occasion.

An active participation of undergraduate and postgraduate students from various petroleum institutions across the country like Pandit Deendayal Petroleum University (PDPU), Indian School of Mines (ISM), University of Petroleum & Energy Studies (UPES), Rajiv Gandhi Institute of Petroleum Technology (RGITP), IIT Delhi, NIT Suratkal and Maharashtra Institute of Technology (MIT), Rajiv Gandhi College of Engineering made the contest successful.

Out of ninety, only thirty-four abstracts were selected for presentations during the technical sessions. Two parallel sessions were organized consisting three judges in each panel. A thorough testing of knowledge and mettle of the participants was done over the two days of presentations. It was appealing to view that contest had instilled enthusiasm among the participants.

## Post Graduate Category:

- 1st Prize - Ankit and Shikha (UPES)
- 2nd Prize - Nilesh Jha (RGITP)
- 3rd Prize - Rajat and Narendra (IIT Delhi)

## Graduate Category:

- 1st Prize - Shivam Shahi and Animesh Ranjan (NIT Suratkal)
- 2nd Prize - Aastha Sharma and Chiradeep Gupta (UPES)
- 3rd Prize - Shashank Pathak (ISM Dhanbad)

*The 1st prize winners of undergraduate and post graduate divisions are invited to present the same paper at the **2012 Middle Health, Safety, Security and Environment in Abu Dhabi** on 1 April 2012.*

# Proactive Collaborations and Alliances in 2011

## International Operations at UPES - 'Harnessing National & International Partnerships'

Offering a mix experience of opportunities to explore new associations and foster the existing partnerships, the year 2011 bid adieu leaving the sense of glee of a successful year for UPES International Operations. The bustling activities of last year swirled around strengthening UPES association with various Universities like Dundee, Scotland Heriot Watt University, Edinburgh, University of Aberdeen, Carleton University, Centennial Energy Institute and Winnipeg Aviation. Through agreements and collaborations, the focus enforced was not only on the exchange of programs and curriculum but also on providing opportunities to faculty and students for greater optimization and exposure.

## Collaborations brought home benefits for Students

This year, the students were bestowed with a lot of International offerings. It was a happy time to reap back what was sowed earlier through MOUs and alliances with other organisations. Some of them brought home fruitful results for some of the UPES students.

- Four UPES students were awarded MITACS scholarships in 2011. It was a proud achievement for UPES as out of the fourteen MITACS scholarships awarded to Asia, ten were from India and four from UPES. Three students from UPES travelled to the Universities of Alberta and Calgary, and to the Aerospace Research Laboratory in Montreal, Canada on MITACS scholarships (one student from UPES chosen not to take up the offer).
- Three M Tech Energy Systems students have been shortlisted to attend Summer Research Programs 2012 at the Centennial Research Institute, Canada. In 2011 five students from UPES successfully completed the summer research exchange program at the same university.
- Selected students from UPES will travel to the University of Applied Sciences, Frankfurt, Faculty of Business & Law in 2012, and the first batch of students from Germany are expected in 2013.
- Two MBA International Business students have started their January semester under the exchange program with the University of Alberta.

## UPES Inks MOU with Indico Marine Pvt. Ltd.

The CCE of UPES offers executive programs through distance learning mode for the working professionals



(L-R) Mr. Rajesh Bstra, Vice President Technical-IMPL, Cdr. J.L. Mann, IMPL, Capt. Sanjay Mann, Managing Director-IMPL, Dr. Parag Diwan VC UPES and Mr. Arun Jyoti, Director -ISPe at the MOU signing ceremony

As a part of the agreement, IMPL will promote three programs i.e. B.Sc Maritime Studies (Lateral Entry), MBA (Port and Shipping Management) and B. Sc. + MBA in combination which are offered by CCE-UPES through Distance Learning Program.

University of Petroleum & Energy Studies, Dehradun signed a MOU with Indico Marine Pvt. Ltd. (IMPL) in Mumbai on 1st December 2011. Under this long term collaborative MOU, both the organizations will market, promote & support the academic courses and programs promoted by the Centre for Continuing Education (CCE) of UPES. The CCE of UPES offers executive programs through distance learning mode for the working professionals.

This MOU, signed between Dr. Parag Diwan, Vice Chancellor - UPES and Capt. Sanjay Mann, Managing Director - IMPL, will be a vital development for the Seafarers, Shipping and Maritime professionals as the programs offered will provide opportunities of upgrading the professional qualifications of the employees of Port & Shipping Sector. It will also enhance the chances of professional development of these professionals in view of the government's recently announced security clearances to develop more Port Projects and Shipping Infrastructure.

IMPL is a Shipping Company established in 2008 based at Navi Mumbai, in the business of Commercial Management of Vessels, Chartering, Ship-broking, Ship agency, Manning agency & Maritime Training and Education.

# The University of Petroleum and Energy Studies signs partnership agreements with two leading International Universities

University of Aberdeen in Scotland's Oil and Gas 'capital' & Coventry University, UK



From left to right: Professor Subir Ranjan Das (Head of International Operations at UPES), Education Secretary Michael Russell, Professor Dominic Houlihan.

## University of Aberdeen joins hand to exchange teaching and research-related activities

To bring together an academic powerhouse in Europe's energy capital with India's dedicated University for teaching and research in energy studies, a MOU was signed on 9th November 2011. The signed document was exchanged between Professor Dominic Houlihan, Vice-Principal, (Internationalization) University of Aberdeen and Dr. S. R. Das, Head, International Affairs, UPES.

Speaking on the occasion, Professor Houlihan said: "The University of Aberdeen has interest in energy research; and the large range of academic programs that we now offer in engineering, geology, energy law and economics makes this agreement particularly important and exciting."

Welcoming the agreement, Mr. Michael Russell, Education Secretary, University of Aberdeen said: "Aberdeen is the UK's energy capital and a European hub for research and technology; UPES is the first University in Asia to be solely focused on energy. The coming together of these two institutions, which are of huge importance in their own countries, will allow them to share research and open up new opportunities for students in the energy sector."

University of Aberdeen is one of the most distinguished Universities in Scotland.

*Welcoming the agreement, Mr. Michael Russell, Education Secretary said: "Aberdeen is the UK's energy capital and a European hub for research and technology; UPES is the first University in Asia to be solely focused on energy."*

## Agreement signed with Coventry University, United Kingdom

A Memorandum of Understanding was signed between Coventry University, United Kingdom and the University of Petroleum and Energy studies (UPES) at Energy Acres in Dehradun on 20th November 2011. Dr. Parag Diwan, Vice Chancellor, UPES and Dr. David Pilsbury, Pro Vice Chancellor (International), Coventry University signed the agreement. The signed document was exchanged between Dr. Parag Diwan and Mr. Lawrence D'Souza who was representing the Coventry University. Mr. Lawrence D'Souza is Academic Partnership Manager, Coventry University. (Dr. David Pilsbury, Pro Vice Chancellor (International), Coventry University was unable to come and had signed the document in advance.)

It is perceived that this agreement will lead to enhancement at many levels and across a number of sectors including aviation, computer sciences, power and engineering. Talks are underway for a variety of teaching, student and faculty exchange initiatives with particular emphasis on the automotive sector.



UPES's officials and Mr. Lawrence D'Souza (Fourth from Left) Academic Partnership Manager, Coventry University at the MOU signing ceremony

*Coventry lies in the heart of the U.K's automobile industry with excellent automotive courses. It leads to exciting possibilities for collaboration with the Department of Automotive Studies, UPES*

# MOU signed

## Larsen & Toubro Limited (L&T) joined hands with UPES



S. Pandiperumal, student of M.Tech - Pipe Line Engineering receiving the L&T-UPES Hydrocarbon Scholarship



Mr. Yogi Sriram - Executive Vice President (HR & Administration) and Dr. S.J. Chopra - Chancellor, UPES at the signing ceremony



Mukhil Dev, student of M.Tech - Pipe Line Engineering receiving the L&T-UPES Hydrocarbon Scholarship

**U**PES and Larsen & Toubro Limited (L&T) joined hands and signed a MOU for L&T-UPES Hydrocarbon Scholarship Scheme on 29th November 2011. The document was signed and exchanged between Dr. S. J. Chopra, Chancellor - UPES and Mr. Yogi Sriram, Executive - Vice President (Human Resource & Administration), Larsen & Toubro Ltd.

To begin the series, two students of UPES, M. Tech - Pipe Line Engineering received the Scholarships on the occasion. These scholarships would be made available to these two meritorious students for a worth of over Rs. 2 lakhs per year.

Speaking on the occasion, Mr. Yogi Sriram recorded his appreciation for the efforts being made by UPES to produce domain specific employable workforce for the industry.

## MOU on Research with R&D Centre, Indian Oil Corporation Ltd., Faridabad

**O**n September 28th 2011, a Memorandum of Collaboration was signed between UPES and IOCL, R&D Centre Faridabad. The collaborative project is on light Alkanes conversion into high quality motor gasoline. The value of the project is 84.39 lakhs for two years duration. Zero date for implementation has started on 14th nov, 2011. This collaboration could be seen as a roadmap for the development of novel catalytic technologies and will help UPES faculty to work closely with a premier public sector Petroleum R&D organization. This agreement will also encourage UPES faculty to work & utilize unique IOCL state-of art facilities at their R&D Centre, Faridabad.



## UPES joins hands with FICCI on the launch of National Knowledge Functional Hub



**F**ederation of Indian Chambers of Commerce and Industry (FICCI) has set up the National Knowledge Functional Hub (NKFH) to engage higher educational institutes with the industry in order to produce high quality Engineering graduates and to fill the void for skilled talent in the market.

Apart from creating a mechanism for a sustainable Academic-Industry linkage, the most imperative and vital aim of NKFH is to enhance the employability of graduates and align higher education, technical education and research with the current and future requirements of the industry.

In this view, its Higher Education Committee and Capital Goods Committee have joined hands to facilitate meaningful engagements between engineering institutes and capital goods companies. In collaboration with patron institutions and champion companies, FICCI proposed to set up five hubs across the country and University of Petroleum and Energy Studies is one of the patron institutions for Dehradun region.

# HYDROGEN ECONOMY

## A bridge to sustainable and clean energy



Article by :  
**Dr. Avanish K.Tiwari**, Senior Principal Scientist  
**Sonal Singh**, Junior Research Fellow  
 Center for Alternate Energy Research, UPES

### HYDROGEN PRODUCTION AND ITS APPLICATIONS

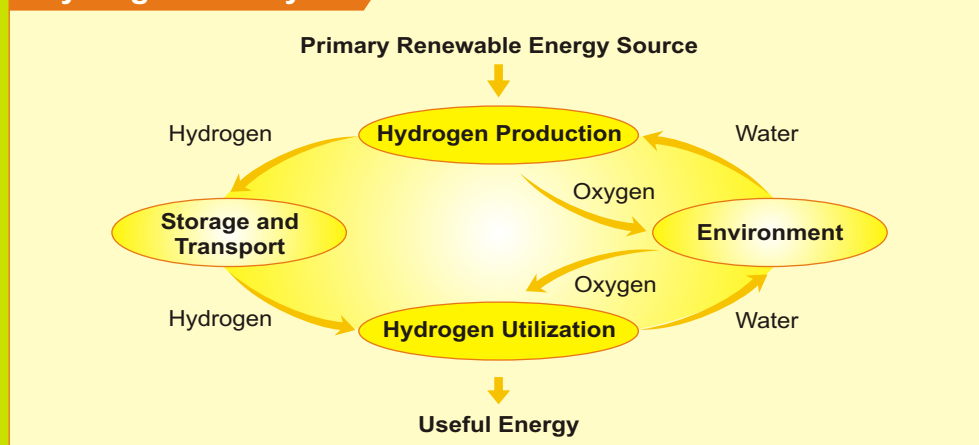
Fossil fuel supplies are dwindling and eventually depleting, but at the same time, energy consumption continues to increase at rapid rate particularly in heavily populated countries, such as India, which develops a greater demand for energy. Traditional fossil energy resources such as oil are ultimately limited and the growing gap between increasing demand and shrinking supply will, in the not too distant future, have to be met increasingly from alternative primary energy resources. We must strive to make these primary energy resources more sustainable to avoid the negative impacts of global climate changes, the growing risk of supply disruptions, price volatility and air pollution that are associated with today's energy systems.

On the technology front, Hydrogen, a clean energy carrier that can be produced from any primary energy source, and fuel cells which are very efficient energy conversion devices, are attracting the attention of public and private authorities. Hydrogen and fuel cells, by enabling the so-called Hydrogen economy, hold great promise for meeting the requirement in a unique way.

Hydrogen is considered an alternative fuel due to the following reasons:

- Highly abundant in nature
- Lightest element of all the elements known
- Versatile, converts easily to other energy forms at the user end
- High utilization efficiency
- Environmentally compatible (zero- or low- emission)

### Hydrogen Life Cycle



“Establishment and Demonstration of Hydrogen Production and Utilization Facility through Photovoltaic-Electrolyzers system”

### HYDROGEN PRODUCTION METHODS

Hydrogen can be produced from a variety of process technologies, including chemical, biological, electrolytic, photolytic and thermo-chemical. These processes include fossil resources, such as natural gas and coal, as well as renewable resources, such as biomass and water with input from renewable energy sources (e.g. solar, wind, wave or hydro-power).

#### HYDROGEN FROM FOSSIL FUELS

**Production from Natural Gas (Steam Reforming)** - Steam reforming uses thermal energy to separate hydrogen from the carbon components in methane and methanol, and involves the reaction of these fuels with steam on catalytic surfaces. The reaction decomposes the fuel into hydrogen and carbon monoxide. Then "shift reaction" changes the carbon monoxide and water to carbon dioxide and hydrogen.

**Production from coal** - Hydrogen can be produced from coal through a variety of gasification processes. In practice, high-temperature entrained flow processes are favoured to maximise carbon conversion to gas.

### FROM SPLITTING OF WATER HYDROGEN

**Water electrolysis** - Electrolysis separates the elements of water- H<sub>2</sub> and O<sub>2</sub>-by charging water with an electrical current. Adding an electrolyte such as salt improves the conductivity of the water and increases the efficiency of the process. The charge breaks the chemical bond between the hydrogen and oxygen & gathers at the cathode and the anode respectively.

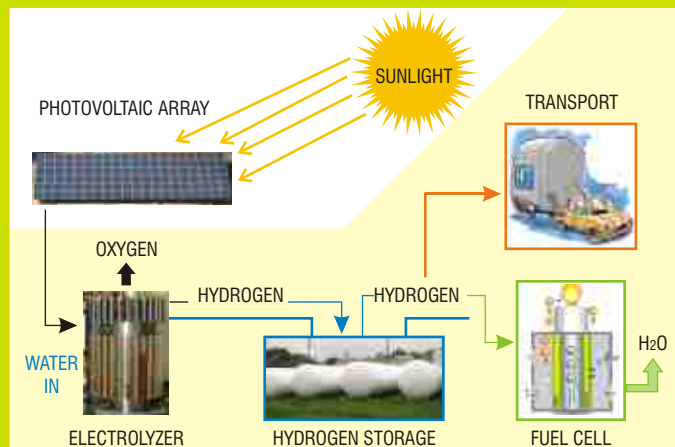
**Photo-electrolysis (photolysis)** - Photo electrolysis of water is the process whereby light is used to split water directly into hydrogen and oxygen. Such systems offer great potential for cost reduction of electrolytic hydrogen.

**Photo-biological production (bio photolysis)** - Photo-biological production of hydrogen is based on two steps: photosynthesis and hydrogen production catalysed by hydrogenase for example, green algae and cyanobacteria.

### BIOMASS TO HYDROGEN

In biomass conversion processes, a hydrogen-containing gas is normally produced in a manner similar to the gasification of coal. However, no commercial plants exist to produce hydrogen from biomass. Currently, the pathways followed are steam gasification (direct or indirect), entrained flow gasification, and more advanced concepts such as gasification in supercritical water, application of thermo-chemical cycles, or the conversion of intermediates (e.g. ethanol, bio-oil or torrefied wood).

### HYDROGEN FROM SPLITTING OF WATER



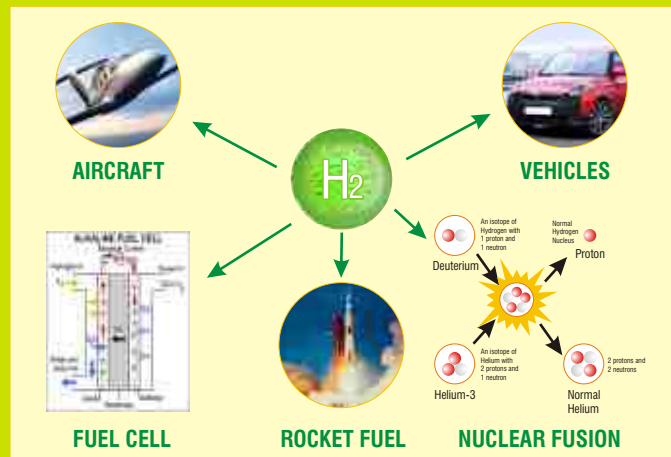
Water-splitting solar panels have important advantages over existing technologies in terms of hydrogen production. Right now, the primary way to make hydrogen is to separate it from natural gas, a process that generates carbon dioxide and undercuts the main motivation for moving to hydrogen fuel-cell vehicles: ending dependence on fossil fuels. The current alternative is electrolysis, which uses electricity to break water into hydrogen and oxygen, with the two gases forming at opposite electrodes. Although electrolysis is efficient method, it can be cleaner if the source of the electricity is wind, sun, or some other carbon-free source. But if the source of the electricity is the sun, it would be much more efficient to use solar energy to produce hydrogen. PV- electrolyser is one of the promising methods to produce hydrogen with zero pollution emission. Hydrogen production from a PV- electrolyser system depends on the efficiency of the electrolyser and photovoltaic array, and sun radiance at that site.

Since the feedstock for electrolysis is water, there are no harmful pollutants emitted during the use of the fuel. Furthermore, it has become evident that concentrator photovoltaic (CPV) systems have a number of unique attributes that could shortcut the development process, and increase the efficiency of hydrogen production to a point where economics will then drive the commercial development to mass scale.

Ministry of New and Renewable Energy (MNRE) has sanctioned the project titled "Establishment and Demonstration of Hydrogen Production and Utilization Facility through Photovoltaic-Electrolyzers system" to UPES in collaboration with IOCL R&D Centre, to be implemented at Solar Energy Centre (MNRE), Gwalpahari, Gurgaon, Haryana.

Solar energy is potentially the most abundant renewable energy resource available to us and hydrogen production from solar energy is considered to be the ultimate solution for sustainable energy. Among various methods, the only technique developed sufficiently for commercialization internationally, is electrical energy produced by solar PV panels, fed in to an electrolyzer to produce gaseous hydrogen. Hydrogen produced through electrolysis, has a huge potential in developing country like India, where energy demands are exceeding the energy supply. This can also become a source of sustainable and clean energy in future.

## HYDROGEN APPLICATIONS



Electrolyser uses direct current to separate hydrogen (H<sub>2</sub>) and oxygen (O<sub>2</sub>) from water without waste emission in the environment. Fuel cell is a device that can produce electricity from hydrogen and oxygen (water vapour and heat are the by-products of its processes). At present, fuel cell has been developed to use in transportation sector such as passenger car, bus, truck, and bicycle because it has higher efficiency than Internal Combustion Engine (ICE) vehicle. Hydrogen as main fuel for Fuel Cell Vehicle (FCV) can be produced from several renewable technologies such as wind, solar, and nuclear energy.

Hydrogen generated from an electrolyser can be stored in storage devices, used instantly in stationary power supply, or fed to hydrogen-driven vehicle. Usually, Hydrogen can be kept for several months for later use and the amount of energy can be increased by adding more tanks with minimum cost. At present, only Hybrid Electric Vehicle (HEV) is available in the market. A few hydrogen-driven vehicles are under development because of the cost of fuel car and lacking of fuel infrastructure. Nevertheless this technology is gaining more attention because it is one of the promising technology for the future for zero emission. Typical hydrogen-driven vehicle keeps hydrogen onboard in hydrogen tanks. Driving distance of each vehicle depends on the amount of hydrogen onboard.

#### REFERENCES:

Sources of diagram "Hydrogen Applications Overview" (This picture has been developed as one single picture by collecting various pictures. Sources are given as below-)

1. [http://www.davidddarling.info/encyclopedia/A/AE\\_alkaline\\_fuel\\_cell.html](http://www.davidddarling.info/encyclopedia/A/AE_alkaline_fuel_cell.html) (fuel cell)
2. <http://www.asi.org/adb/02/09/he3-intro.html> (nuclear fusion)
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5. [http://en.wikipedia.org/wiki/File:Boeing\\_Fuel\\_Cell\\_Demonstrator\\_AB1.JPG](http://en.wikipedia.org/wiki/File:Boeing_Fuel_Cell_Demonstrator_AB1.JPG) (aircraft)

Sources of diagram "Hydrogen from splitting of water" (This picture has been developed as one picture by collecting various single pictures. Sources are given as below-)

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2. [www.alibaba.com](http://www.alibaba.com) (hydrogen storage)
3. <http://blogs.bournemouth.ac.uk/research/2011/06/06/fuel-cell-and-hydrogen-call-for-proposals-launched/> (transport)
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1. National Seminar Non Conventional Energy Resources and its Utilization, Sultanpur, India, February 27-28, 2009
2. <http://need-media.smgumg.com>
3. <http://www.iea.org/papers/2006/hydrogen.pdf>
4. [www.technologyreview.com/Energy/17887/page1/](http://www.technologyreview.com/Energy/17887/page1/)
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UNIVERSITY OF PETROLEUM & ENERGY STUDIES

# UURJA-11

Present  
UURJA-11  
"ENERGY IN YOUTH"



**U**urja an Annual Youth Fest of UPES has always been upbeat with sincere academic, technical, social, intellectual, managerial and cultural connotations. Since its inception, one bustle that has been inseparable from this University and has infact become one of the iconic events for UPESites is Uurja.

UPES is sensitive to all round development of its students. Hence, the perpetual focus is on provide students an exposure & ample opportunities to exhibit their multifaceted talents.

Not only nurtured by the volunteered students, faculty and staff; Uurja has emerged as a totally youth driven orientation. Since its maiden celebration back in 2005, Uurja has earmarked its prints in the memories and the diaries of many and is awaited eagerly every year thereafter. This is the event which caters to all kinds of talents across all colleges of this country and organizes a range of activities every year for a week's time.

“Presence of over 5000 students in 52 different activities”



At the picturesque hilly forest outskirts of Dehradun in Bidholi, Energy Acres has once again celebrated the spirit of life along with the students from 10th -12th November 2011. Uurja-2011 in its 8th year has seen both the participation & presence of over 5000 students in 52 different activities & competitions.

As usual this year again it was led by students and provided interactive platforms for the dynamic youth of various professional institutions. Various Colleges and their students participated, including students from Lady Shri Ram College Delhi, Vanasthali Vidyapeeth Jaipur, Mumbai College of Technology Ghatkooper Mumbai, College of Technology & Management Chandigarh, Karnal College of Engineering Karnal, College of Engineering Roorke, Gurukul Kangri Haridwar and many more from Dehradun.



*As the pulse of this fest, there were collection of several events that were thoroughly enjoyed by the participants.*

- 19 Cultural Events
- 13 Socio-Events
- 20 Technical Events

*The cultural events were aimed at encouraging expressive and extrovert side of students' personality. The social events were aspired to generate awareness of burning social and environmental issues to influence social responsibility whereas in the technical events the focus was on triggering the innovative and creative mind set of youth that aimed at stimulating the capabilities in this era of techno savvy world.*

*The evenings were kept lightened by the performances of Shardha Sharma & Jubin Nautiyal the X Factor fame from Channel [V], and DJ Insomania from Delhi to entertain students on the beats of Punjabi, Hindi and Dandiya.*

*The highest likeable performance was kept for the end to mesmerize audience. Recently released Bollywood movie DUM MARO DUM Fame - Rock Band Karma performed live on UPES stage.*

*Owing reverence to all the sponsors who had been generous and supported the fest wholeheartedly, the organizing team thanked especially ONGC, Godrej Interior, ERGO and VLCC.*

*Spirit of energy & enthusiasm communicated the vigorous oomph of youth and we appreciate that flow.*

Paper Published/  
Presented

**Intellect Treasure**

Mr. S. Kumar ( UPES,Dehradun), Mr. V.C. Srivastava( IIT,Roorkee), Dr. R.P.Badoni ( UPES,Dehradun) published a paper on "**Oxidative Desulfurization by Chromium Promoted Sulfated Zirconia**" in Fuel Processing Technology, Elsevier Publication, 93 (2012), pg.18-25.

**Mr. S. Kumar, UPES, Dehradun, Mr. V.C. Srivastava, IIT,Roorkee & Dr. R.P. Badoni, UPES, Dehradun**

# LAW DAY

Once again, 26th November 2011 would remain unforgettable for the students of UPES College of Legal Studies



The students of UPES CoLS with Chief Guest and UPES officials at the Law Day

## Best Speakers

*Molshree BA LLB (IX Sem)  
and Harshita Khurana BBA  
LLB (III Sem)*

## Best Team

*Ashish Singhal, BA LLB (V  
Sem) Ashul Agrawal BBA  
LLB (V Sem) and Ajeet  
Singh, BA LLB (III Sem)*

Resounding the celebration of the day on which Indian constitution was adopted and enacted by the constituent assembly 62 years ago, College of Legal Studies celebrated 'Law Day' on 26th November 2011. On the occasion, the Chief Guest Honorable Lokayukta of Uttarakhand Hon'ble Justice (R) M. M. Ghildiyal inaugurated the function. His presence instilled enthusiasm & positivity among students. During the day, a competition was also organized for students wherein 'the Discussion Panel' discussed on the agenda 'Reorganization of States'. Heated debate and discussion done by the Panel was enjoyed by the audience. The Panel represented different States representatives. It is worth mentioning the passion with which students discussed and presented their views. This panel was adjudged by Hon'ble Justice (R) M. M. Ghildiyal who distributed awards and certificates to the winners.

# MEDIATION WORKSHOP

With an objective to enable the students to understand the meaning, role, and the legal relevance of Mediation in the present legal system, UPES College of Legal Studies organized a three day Mediation Workshop from 25th to 27th November 2011. The Workshop provided students an exposure to understand the nuances of mediation from the exponential experts of mediators like Sr. Advocate Sadhana Ramachandran, Sr. Advocate Niranjan Bhatt, Advocate Veena Ralli and Advocate Kavel Ahuja.

"Undoubtedly, it has been and would remain a great learning experience for us" said a participating student. The role plays, mediation and negotiation methodologies applied by virtue of class room exercises were nothing less than amazing and brain storming for students.



(L-R) Ms. Veena Ralli - Advocate, Ms. Sadhana Ramachandran - Sr. Advocate, Dr. S.J. Chopra - Chancellor, UPES, Mr. Niranjan J. Bhatt - Sr. Advocate and Mr. Kavel Ahuja - Advocate at the Mediation Workshop



Ms. Veena Ralli, Advocate addressing students at the Mediation Workshop

# Strategic Communication: Learning from Mistakes

## Two day International workshop at Campus

UPES Centre for Communication hosted its maiden two day International Conference “Strategic Communication: Learning from Mistakes” at Energy Acres on 4th and 5th November 2011.

Out of 110 papers received by the Centre from national and international delegates, only 81 national and 11 international papers were accepted.

Prof. Milind Malshe from IIT Mumbai and Prof. (Dr.) Z. N. Patil from English and Foreign Languages University, Hyderabad were the key note speakers.

During the course of these two days, delegates presented papers on a wide range of topics fathoming the concepts of strategic communication and the associated mistake of narrowing down communication to utilitarian needs. Attempts were made to comprehend the dialectical and mother tongue influence and adopt strategies to impart appropriate skills.

Human values and ethics being dynamic and subjective, the need of inculcating these for societal and economic advancement were also addressed. Focusing on creativity in human communication, an endeavor was made to understand verbal and non- verbal clues. During the conference it was accepted that the importance of literature to teach language and bridge the hiatus amongst different genres was apparent and it was discussed thoroughly in order to develop and integrate the heart and the head. The main focus of the conference was to harness communication strategies as a positive catalyst for progress. Among other deliberations, one paper was also presented through video conferencing (Skype) by a delegate from Pakistan.

The Centre looks forward to conduct 2nd International Conference in the month November 2012.



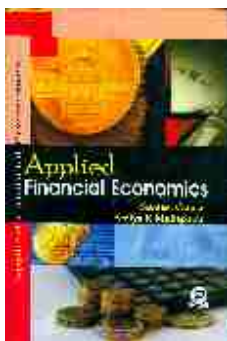
Few of the delegates with keynote Speakers



(L-R) Dr. F. H. Tomasowa, Indonesian Delegate with Prof. (Dr.) Z. N. Patil from English and Foreign Languages University, Hyderabad

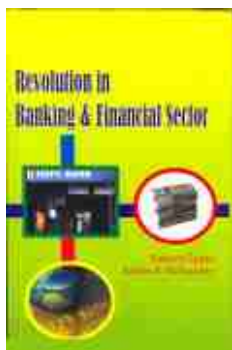
## Books Published

**Applied Financial Economics**  
**Publisher: Prateeksha Publications,**  
**ISSN Number 978-93-80626-49-9**  
**Author : Dr. Sumeet Gupta\***  
**Co- Author: Dr Amiya K Mohapatra**



This book covers various aspects of financial economics and its application including the issues relating to applied financial market in a comprehensive manner. It presents multidisciplinary study of recent financial and corporate trends in Indian Economic Scenario. It also covers the broad areas of money market, capital market.

**Revolution in Banking and Financial Sector**  
**Publisher: Prateeksha Publications,**  
**ISSN Number 978-93-80626-52-9**  
**Author : Dr. Sumeet Gupta\***  
**Co- Author: Dr Amiya K Mohapatra**



This book covers various aspects of finance and banking with its application. A strategic study of recent revolution in banking & financial sector in Indian Economic Scenario is discussed in detail covering extensively the financial and banking sector. The book also presents the alternative strategy and valuable suggestions to these sectors.

\*Dr. Sumeet Gupta, Assistant Professor, UPES

## Agreement Signed

Centre for Aviation Studies (CAS), UPES, signed an MOU with Winnipeg Aviation (2003) Ltd., Canada on 17th Nov 2011. The agreement was signed between Dr. Parag Diwan, Vice Chancellor, UPES and Capt. Dan Reeves, M.D, Winnipeg Aviation.

This agreement would enable Centre for Aviation Studies to provide ground school training to students of Winnipeg Aviation Ltd. undergoing training for Commercial Pilot License (CPL) in Canada as per the course curriculum which is approved by Canadian and Indian Civil Aviation



(L-R) Capt. Dan Reeves, M.D, Winnipeg Aviation, and Dr. Parag Diwan, Vice Chancellor, UPES exchanging the agreement

Regulatory authorities. The course will be taught twice a year at UPES Dehradun Campus. This will also open a new vista for Centre for Aviation Studies to launch CPL training for the future pilots of the airlines of India.

# Petrobangla Training Program Completed

## 40 Officers were trained

ISPe has recently concluded an ADB funded training program for the Ministry of Power, Energy & Mineral Resource, Bangladesh and Bangladesh Oil, Gas and Mineral Corporation (Petrobangla). A series of 11 programs were conducted over a period of 12 months to train a total of 40 officers. The officers and personnels from the various organizations of Bangladesh received domain specific training at Energy Acres in Dehradun.

The training covered subjects like Oil & Gas Planning and Management, Advance Geophysics, Petroleum Engineering, Pipeline Engineering and so on. One could gaze the satisfaction received by the participants during the training by the fact that some of these sessions were also attended and appreciated by the senior officials from Petrobangla, its group companies and Ministry of Power, Energy & Mineral Resource, Bangladesh.



Participants from Petrobangla and its group companies, Bangladesh



Senior UPES official at Annual Planning & Review Meeting 2011

Annual Planning & Review Meeting (APRM) is an annual meet held every year across the functions and levels of UPES to carry out a self analysis and plan out the action plan for the next years for the University. This year, a two and half day charter was laid for the entire team that was focused on the current scenario, challenges and the action steps needed on various subjects of cognizance for the higher discussions. The meeting was organized at Energy Acres, on 6th-8th November 2011.

Setting the tone of the meeting President UPES, Mr. Sanjay Kaul led the ball rolling by expressing the expectation of the meeting. Initiating a new strategy to conduct the meeting this time, different members from different functions were divided under seven groups. These groups were given seven themes to explore and suggest solutions for the University. Discussions on topics like Competitive Contours of Indian Higher Education Industry, Challenges of Acquiring Quality Students, Establishing the Bedrock of Academic Rigor, Sustainability Issues of Students Placement, Talent Acquisition and Retention Paradigms & Permeating the Organization Culture to Core were discussed in detail.

Moreover, the fruitful discussions and interactions were the takeaway for the members in this meeting. It can be concluded that the meeting at APRM has synergized all the units, instilled spanking energy among attendees.

### Intellect Treasure

Paper Published/  
Presented

1. Shreya Uttarwar, Dharini Narayanan, Francis Antony, Varun Bisht (UPES's Students) and Dr. Kanchan Deoli Bahukhandi (Asst. Prof., UPES) jointly presented a paper entitled "**Conversion of Plastic Waste into Fuel**" at World Congress for Man and Nature 2011 "**Global Climate Change & Biodiversity Conservation**" on 11th, 12th & 13th November, 2011, at Gurukula Kangri Vishwavidyalaya (242- ABS/C/141).
2. Harini, Anusha Kavya, Madhuri, Dharini (UPES's Students) and Dr. Kanchan Deoli Bahukhandi (Asst. Prof., UPES) jointly presented a paper on "Bioethanol from Bagassae Pith (A waste from Paper Industry) at World Congress for Man and Nature 2011 "**Global Climate Change & Biodiversity Conservation**" on 11th, 12th & 13th November, 2011, at Gurukula Kangri Vishwavidyalaya. (44-ABS/A/87)
3. Dr. Kanchan Deoli Bahukhandi (Asst. Prof., UPES) & S.K. Bartarya (Scientist in Wadia Institute of Himalayan Geology) presented paper entitled "**Hydrochemistry of Surface and Groundwater Haridwar district, Uttarakhand**" (also Published in Conference Proceeding) at International Conference on Chemical, Biological and Environmental Engineering (ICBEE- 2011), ICBEE-BAN\_012, 31st December, 2011 organised by IIMT, Bhubaneswar, INDIA

# National Shooting Championship at Pune

## Trishlla wins Silver Medal

UPES students not only prove themselves as academically progressive professionals, but also show equally their glare in other areas as well. This time the cause for pride was Ms. Trishlla Mullick, BA LLB student of UPES, Ms. Mullick brought laurels for UPES and for the state of Uttarakhand by winning a Silver medal in National Shooting Championship in 10mm Air pistol event for the State in "Only Individual" category. The Championship was held in Pune.

The pride was intensified when the team of Ms. Trishlla also won a Silver medal later in "Team Category" also.

Ms. Trishlla Mullick started her shooting career in the year 2009 when she participated in State Junior Shooters and won 2 gold and 3 silver medals. Since then she never looked back and moved further in her progressive path participating and winning many State and National level competitions. In 2010, Ms Mullick also participated in an International Shooting Championship at Singapore and stood at 20th rank amongst the total 65 participants.

This time, Mr. Trishlla Mullick has already tightened her belts for the trials for Indian Squad in the month of January in Bangalore.

*Team Energy News wishes her best of luck!!!*



Ms. Trishlla Mullick, BA LLB student of CoLS UPES

# The 20th World Petroleum Congress



Dr. Parag Diwan, Vice Chancellor,  
University of Petroleum & Energy Studies (UPES)

The 20th World Petroleum Congress (WPC) held from December 4-8, 2011 in Doha, Qatar, saw more than 5000 delegates and 550 speakers participating from world's leading Oil & Gas outfits. Deliberations were delivered on the theme of this year's WPC, "Energy Solutions for All: Promoting Co-operation, Innovation and Investment". Participants discussed a wide range of topics including 'Financing Gas Infrastructure', 'Advances in Extra Heavy Oil Development Technologies' to name a few.

Dr. Parag Diwan, Vice Chancellor, University of Petroleum & Energy Studies (UPES) represented the University. During this conference Dr. Diwan was able to meet worldwide CEOs of several large Oil & Gas companies such as Exxon Mobile, Total, Shell and apprized them on the work done by UPES.

He also met representatives of several African and Latin American oil companies and discussed with them the possibilities of students' enrollments and training opportunities.

The event offered a unique opportunity to not only engage nations on relevant multi-lateral issues for mutual benefits and sustainable development of hydrocarbon sector but also to explore and enhance the bilateral relations in the sector. The WPC was also accompanied by an exhibition showcasing the latest technologies and sharing the best practices in the global oil and gas sector. This was an exhibition of grand success covering over an exhibit area of 6,00,000 square feet. There was a combined Indian Pavilion showcasing all the national oil companies of India.

Many large international companies had substantial presence in the exhibition stalls including some interesting research presentations by American Universities operating in Qatar.

A tour of Ras Laffan Industrial City was organized where both Ras Gas and Qatar Gas, have their LNG facilities, was very useful. The latest GTL plant of Shell and Sasol were also located there.

Visits were also organized to QSTP (Qatar Science and Technology Park) where several high-tech companies are incubated.

***The WPC is the largest event of its kind in the world and held once every three years. This platform brings together the leading decision makers and experts of global Oil & Gas sector for an in-depth review of industry and future trends.***

**VROOM.. VROOM..  
VROOM..**



# 11th Auto Expo 2012



UPES stall being inaugurated at Auto Expo 2012 by Shri. S. Shandilya, Chairman & CEO, Eicher Group of Industries

With around 1500 participants from over 23 countries and a crowd of over 2 lakhs thronging the largest Automotive show in India, the 11th Auto Expo held in New Delhi from 5th-11th, January 2012 at the prestigious Pragati Maidan was not far from being the only complete Automotive show in the world.

UPES didn't miss the opportunity of joining the bandwagon either, and through College of Engineering Studies showcased the exemplary work carried out by the bright students of its B. Tech. Automotive Design Engineering Batch. An indigenously designed and engineered Formula 1 racing vehicle christened as "Uurja", was the centre of attraction at the exhibition, which generated a lot of interest with the media, potential students and industry at large.

Team Uurja, a group of budding, talented engineers from UPES committed to discover the knowledge and to implement it on to real life projects, has already achieved major limelight in the industry. One such initiative participation was at SAE-BAJA event, a rough terrain vehicle development where many technical Universities in India participate and have regular technical contests. Another one was at the FSAE-SUPRA, as against the rough terrain concept, a National Collegiate Design competition focused on Design, Manufacturing and Testing of Formula Style Racing Car, by the students. This vehicle also participated in the Chennai Championship recently.

Mr. S. Shandilya, Chairman & CEO, Eicher Group of Industries was kind enough to spare some time out of his very busy schedule during the exhibition and inaugurated the UPES stall. Mr. Shandilya spent some time at the stall and interacted with the faculty and students of UPES and shared his valuable thoughts on the future and scope of the automobile business in India and worldwide.

UPES stall was also graced by Mr. Arvind Saxena, Director M&S and Member of the Board of Directors, Hyundai Motor India Ltd. who not only appreciated the efforts by the students in creating Uurja, but was also very happy to learn about the progress UPES is making in the automobile sector. Mr. Saxena complemented the faculty and students of the University.



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