

# 18<sup>th</sup> World Congress on Environment Management

8 - 9 July 2016, Hotel Ashok, New Delhi

## Environment and Climate Change - Transitioning to a Sustainable Economy

**Plenary Session - I : Opening Session:** Proceedings of Eighteenth World Congress on Environment Management began with a video film highlighting IOD's achievements depicting its entire journey which began under the leadership of Late its founder, Dr. Madhav Mehra. The theme of the congress was "Environment and Climate Change – Transitioning to a Sustainable Economy".

**Lt. Gen J.S Ahluwalia**, President, IOD in his welcome address emphasized that environmental concerns cannot be viewed in isolation, in this era of Global Climate Change which is complex and multifaceted. He cautioned participants to refrain from fragmented and piecemeal approach, which may become recipe for disaster. He asked participants to discuss market driven solutions to achieve harmonious convergence on ethical and transparent governance, and ensure corporate sustainability and climate security.

**Mr. Rajiv Gauba** IAS, Special Secretary, Ministry of Urban Development, Government of India , delivered a Special Address, focusing on the significance of centrality of sustainability in all our business & development strategies, and on our need for providing basic services such as water supply, sewerage and waste management. He dealt with programmes like Smart Cities, AMRIT and Swachh Bharat Abhiyan and emphasized on technological innovations and citizen's involvement in all development activities, and on the most urgently required need of capacity building.

**His Excellency Mr. Alphonsus Stoelinga**, Ambassador of the Netherlands to India, Bhutan and Nepal delivered a special address and outlined. The Dutch National Climate Agenda outlines how the Dutch government intends to deal with climate change. Its purpose is prevent further climate change as much as possible and nationally and internationally adapt to expected consequences (extreme heat, droughts or increased rainfall).

The Dutch Climate Agenda also reaches out to business, civil society organizations and citizens to work together in order to achieve a sustainable society. Consistency in policy and implementation is crucial to successfully involve them and form a broad coalition for climate action!

**His Excellency Mr. Alexandre Ziegler**, Ambassador of France to India delivered a Special Address reflecting upon the evolving trust and partnership between India & France, on issues pertaining to Climate Change for achieving sustainable development goals. Highlighting the significance of Paris Agreement, he said that it provides framework for action. All countries should encourage cooperation among private companies, by working together on sectors related with sustainable development.

**His Excellency Mr. Tomasz Kozlowski**, Ambassador of the European Union to India delivered a Special Address. Beginning with key issues of climate change and sustainable development, he explained imperatives of Paris Agreement for energy transformation. Paris Agreement is a challenge and opportunity for eco – innovation. All stakeholders are to be brought on board, including private sector and even the civil society. EU members have agreed for bilateral ties with India with goals of sustainable development and climate change. EU financing has been arranged up to 1 billion Euro dollars to support climate and energy programmes.

**Ms. Varsha Joshi**, IAS, Joint Secretary, Ministry of New & Renewable Energy Sources, Govt of India delivered Special address on behalf of Secretary, MNRE. She said environment, energy and economics all go together. Even an ordinary workman today in India aspires for solar energy based solutions for cleanliness.

**Justice (Dr.) Arijit Pasayat**, Co-Chairman, Institute of Directors & former Judge, Supreme Court of India delivered Chairman's Address. He said quoting Thomas Fuller – We do not know the worth of water,



Inauguration of the 18<sup>th</sup> World Congress on Environment Management

From L to R : H.E. Mr Alphonsus Stoelinga, Ambassador of the Netherlands to India, Bhutan and Nepal , H.E. Mr. Alexandre ZIEGLER, Ambassador of France to India , Justice (Dr.) Arijit Pasayat, Co-Chairman, Institute of Directors & former Judge, Supreme Court of India, H.E. Mr. Tomasz Kozlowski, Ambassador of the European Union to India , Dr Upendra Tripathy, IAS, Secretary, Ministry of New and Renewable Energy, Govt. of India , Dr. T. Ramachandru, IAS (retd.), Special Representative, Govt of Telengana in Delhi



Mr. Atul Temurnikar, Co-Founder & Executive Chairman, Global Schools Foundation in conversation with the H.E. Mr. Tomasz Kozlowski, Ambassador of the European Union to India



Plenary session on 'Harmonizing Value Chain across Health, Hospitality and Food Processing Industries' in progress. From L to R: Mr. Pradeep Singh, General Manager, NABARD , Ms. Praveen Gangahar, Advisor, Quality Council of India and Team Lead Assessor for Food Safety, NABCB, Mr. Parag Gupta IAS, Joint Secretary, Ministry of Food Processing Industries ,Mr. Pawan K. Agarwal, IAS, CEO, Food Safety and Standards Authority of India (FSSAI) ( Chair) and Mr. Kandarp Singh, MD - South Asia Markets, Tetra Pak India Pvt. Ltd.



Distinguished guests during the inaugural session of the 16<sup>th</sup> World Congress on Environment Management.

till the well has dried. Hospital records show that 50% of patients are suffering from water borne diseases. Article 21 provides provisions for Right to Life not merely physical existence but to live a life with dignity.

## Golden Peacock Awards for Environment Management (GPEMA):

Mr. Ashok Kapur, Director General, IOD explained the significance of the Indian tradition of water sprinkling after hawans; and the historical perspective of GPEMA and requested Justice Pasayat to present GPEMA. The award citations are separately covered in this journal.

**The next Plenary Session (II):** was on the sub-theme - "Implementation of PARIS Climate Change Agreement - Commitments and Global Corporation". It was chaired by **Dr. Ajay Mathur**, Director General, The Energy & Resources Institute (TERI). The other co-panelists included **Mr. George N. Sibley**, Minister Counsellor Economic, Environment, Science and Technology Affairs, Embassy of the United States, New Delhi; **Ms. Namita Vikas**, Group President and Country Head - Responsible Banking, YES Bank Ltd and **Prof. Rajendra P. Bharti**, Professor and Director, Lal Bahadur Shastri Institute of Management & Technology.

Dr. Mathur introduced sub-themes of the session as 'Challenge of Paris Climate Change Agreement': 'India's Strategy to Meet Commitments by 2030', 'Role of UN and International Bodies', 'Inter-Governmental Cooperation', 'Global Climate Change' - 'The Technology Challenge', 'The Paris Climate Agreement: Implications for Banks and Financial institutions', and advised them to share their views regarding the implementation of Paris Agreement.

**Mr. George N. Sibley** went into details of history of innovations. He said Paris Agreement is action - oriented, which is the beauty of this agreement. He emphasized all institutions and stakeholders will be part of actions implementation. India and US will find many ways to implement Paris Agreement.

Ms. Vikas expressed her views on Climate Friendly Financing. She told



Release of Congress Souvenir : From L to R : Lt Gen J S Ahluwalia, PVSM (Retd.), President, Institute of Directors , India, H.E. Mr Alphonsus Stoelinga, Ambassador of the Netherlands to India, Bhutan and Nepal , H.E. Mr. Alexandre ZIEGLER, Ambassador of France to India , Justice (Dr.) Arijit Pasayat, Co-Chairman, Institute of Directors & former Judge, Supreme Court of India, H.E. Mr. Tomasz Kozłowski, Ambassador of the European Union to India



Mr. Ranjan Dhawan, Ex. CEO & MD, Bank of Baroda delivering his remarks on Environment Management



Mr. Parag Gupta IAS, Joint Secretary, Ministry of Food Processing Industries addressing the gathering during one of the plenary sessions



H.E. Mr Alphonsus Stoelinga, Ambassador of the Netherlands to India, Bhutan and Nepal enthused the audience with his global insights on Environment Management and Sustainability



Mr. Kandarp Singh, MD - South Asia Markets, Tetra Pak India Pvt. Ltd. sharing the Tetra Pak India sustainability story during one of the sessions.



Lt. Gen. Surinder Nath, PVSM, AVSM (Retd) , Vice Chairman, Institute of Directors presenting memento to Mr. Pawan K. Agarwal, IAS, CEO, Food Safety and Standards Authority of India (FSSAI).



Rajiv Gauba IAS, Secretary, Ministry of Urban Development, Govt. of India interacts with fellow panelist Ms. Varsha Joshi, IAS, Joint Secretary, Ministry of New & Renewable Energy Sources, Govt of India

that it is very difficult to incorporate environmental & social accounting into governance framework, along with standardization of Natural Capital Accounting. She further told that banking sector has very low carbon foot prints in comparison to other sectors and explained market based instruments such as Clean Tax, RETSs etc have highly promising market and enhance capabilities of banking sector. YES Bank is the first bank in India that has adopted and implemented ISO-14001-2004 in all its Programmes.

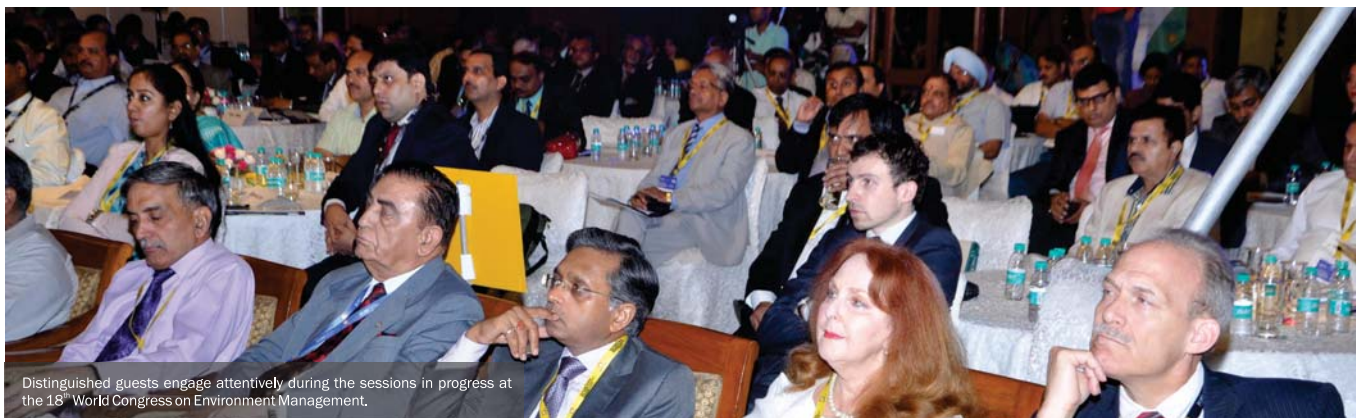
Prof. Bharti enlightened participants about the big gap existing in the consumption and recreation of nature and stressed on urgent need for establishing a balance between the same.

**The next PLENARY SESSION was on the sub-theme (III) : “Business Case for Environmental Sustainability through Green Economy”.** It was Chaired by **Dr. Mahesh Gupta**, The Chairman & MD Kent RO Systems Ltd. The other co-panelist included **Mr. Ashish Khanna**, CEO and ED, Tata Power Solar, **Ms. Mohini Daljeet Singh**, Chief Executive, Max India Foundation and **Ms. Suman Sharma**, Marketing Director, DSM Sinochem Pharmaceuticals India Pvt Ltd.

Dr. Gupta introduced sub-themes of the session: 'Role of Global Business as an Enable for Sustainable Growth', 'Role of Boards', 'Transformational Corporate Leadership for developing Sustainability Strategies', 'Embedding Environment Protection into Corporate DNA', 'Promoting Integrated Water Resources Management and Conservation'. The chair deliberated in details about



H.E. Mr. Alexandre ZIEGLER, Ambassador of France to India delivering a special address during the inaugural session of the 18<sup>th</sup> World Congress on Environment Management



Distinguished guests engage attentively during the sessions in progress at the 18<sup>th</sup> World Congress on Environment Management.

sustainable business models, energy management, water management & labour management issues, green buildings & energy management, and increased investment in energy conservation and efficiency technologies.

Mr. Khanna suggested that power supply situation in India can be improved by shifting to solar power generation for those societies not having any power supply and distribution system so far. He also explained requirements for establishing 100 Gigawatt of solar power stations, but cautioned about the environmental risks associated with chemicals used in solar panels.

Ms. Singh said that environmental sustainability is crucial for twenty – first century, as the environmental instability arising out of natural calamities affects everybody. Situations of zero hygiene are matter of serious concerns for all of us, and we should plan and execute our business as per principles of green economy. She provided a detailed view of health care services, and hospital networks of Max Group.

Ms. Suman elaborated on the concept of sustainable anti-biotics and significance of the same in saving human lives. She pleaded that all pharmaceutical companies, government & private sectors including all stakeholders should enhance their awareness regarding the AMR , its impacts on human health and remedies available because cost of AMR treatments are very high and presently almost unaffordable to vast majority of population.

**The next Plenary Session (IV) : was on the sub-theme – “COMBATTING CLIMATE CHANGE –THE EDGE OF A NEW FRONTIER”.** It was Chaired by **Mr. Balvinder Kumar** IAS, Secretary, Ministry of

Mines, Government of India. The other co-panelist included: **Prof. Mathew Hibberd**, University of Sterling UK, **Mr. Bimal Kumar Sarkar**, Managing Director, Imerys Steel Casting India and **Mr. Arun Bala Krishnan**, Chairman, IOD, Bangalore chapter.

Mr. Kumar welcomed all speakers and introduced sub-themes of the session -Making Mining Environmentally Sustainable, Changing Horizon of Business Strategy to Integrate Climate Change Mitigation and Adaptation, Board Perception of Climate Friendly Approach, Managing Bio-Diversity and Coastal Ecosystems for Climate Resilient Development. He dealt on aspects and issues related with environmental management in mining sector besides explaining participants Gaia Hypothesis given by eminent scientist Mr. James Lovelock. He gave examples of Princeton University based research regarding the climate change impact and need for changing our life styles for aggressively combating the climate change. Finally, he



Distinguished panel at the conclusion of a thriving discussion on Sustainable Infrastructure and Smart Cities. From L to R: Lt. Gen. Rajender Singh, CEO, DLF Foundation , Mr. Pradeep Chaturvedi, Vice President, Institute of Directors, Dr. T. Ramachandru, IAS (retd.), Special Representative, Govt of Telengana in Delhi, Ms. Sandy Sheard, Counsellor and Head - Energy, Climate & Growth Unit, British High Commission, New Delhi and Mr. Manoj R. Dawane, Vice President & Head Technology, Govt. & Industry Relations & Corporate Responsibility Region India, Ericsson.



Rajiv Gauba IAS, Secretary, Ministry of Urban Development, Govt. of India delivers a thought provoking address at the Congress.



Felicitation of panelists at the conclusion of a power packed discussion on Harmonizing Value Chain across the Health, Hospitality and Food Processing Industries - From L to R: Pradeep Chaturvedi, Vice President, Institute of Directors, India, Mr. Pradeep Singh, General Manager, NABARD , Ms. Praveen Gangahar, Advisor, Quality Council of India and Team Lead Assessor for Food Safety, NABCB, Mr. Parag Gupta IAS, Joint Secretary, Ministry of Food Processing Industries , Lt. Gen. Surinder Nath, PVSM, AVSM (Retd) , Vice Chairman, Institute of Directors, India Mr. Pawan K. Agarwal, IAS, CEO, Food Safety and Standards Authority of India (FSSAI) ( Chair) and Mr. Kandarp Singh, MD-South Asia Markets, Tetra Pak India Pvt. Ltd.



H.E. Mr. Tomasz Kozlowski



Mr. Shekhar Dutt



Dignitaries share a light moment during the Golden Peacock Awards Ceremony. From L to R : Mr. Amitabh Kant, IAS, CEO, Niti Aayog, Lt Gen J S Ahluwalia, PVSM (Retd.), President, Institute of Directors, India, Piyush Goyal, Hon'ble Union Minister of State (IC) for Power, Coal, New & Renewable Energy, Mines, Govt. of India and , Justice (Dr.) Arjit Pasayat, Co-Chairman, Institute of Directors & former Judge, Supreme Court of India.

**H.E. Mr. Tomasz Kozlowski**  
Ambassador of the European Union to India delivering a special address at the Inaugural session of the 18<sup>th</sup> World Congress on Environment Management

**Mr. Shekhar Dutt**  
former Governor, Chhattisgarh State greeting the audience at the World Congress.

**Lt. Gen. Surinder Nath, PVSM, AVSM (Retd)**  
Vice Chairman, Institute of Directors, India addressing the audience



Lt. Gen. Surinder Nath PVSM, AVSM (Retd)



Lt Gen J S Ahluwalia, PVSM (Retd.), President, Institute of Directors, India welcoming Piyush Goyal, Hon'ble Union Minister of State (IC) for Power, Coal, New & Renewable Energy, Mines, Govt. of India, Chief Guest at the Golden Peacock Awards Night during the Congress.

briefed about Star Rating being adopted by mining sector in India, for ensuring compliance to national & local level environmental safeguards. Star Rating is part of Sustainable Development Framework being implemented by Indian Bureau of Mines (IBM).

Prof. Hibberd briefly shared his views on climate change and its impacts on India and other South Asian countries.

Mr. Sarkar elaborated challenges of poverty associated with the country as a serious hindrance for overarching goals and objectives of sustainable development. He also dwelt upon climate change mitigation and adaption measures, and elaborated the mechanism of Auto Flux Feeder and its potential in reducing 3000 metric tons of GHG emissions.

Mr. Bala Krishnan shared his experiences in oil Industry and pollution mitigation measures being adopted by different refineries. He elaborated on practical problems associated with jatropa biodiesel

programme. Finally, he stressed upon the need to shift from fossil fuels to nuclear fuels, which may bring desired levels of environmental & social sustainability.

**The next Plenary Session (V)** : was on the sub-theme – “SUITABLE ENERGY FOR ALL”. It was Chaired by **Mr. Pradeep Chaturvedi**, Vice President, IOD. The other co-panelists included : **Mr. Sunil Jain**, CEO & ED, Hero Future Energies Pvt. Ltd, **Mr. Manu Mudgal** Programme Advisor, GIZ, made presentation in place of **Mr. Saurabh Kumar**, Managing Director, Energy Efficiency Services Ltd., **Dr. Jami Hossain**, Senior Corporate Advisor, ReGen PowerTech, **Mr. Anil Chaudhry**, Country President & MD, Schneider Electric India, **Mr. Y. K. Sehgal** , GM , Power Grid Corporation of India Limited, **Mr. A. B. Agrawal** , Executive Director, NHPC and **Mr. K. L. Chugh**, Chairman Emeritus, ITC Ltd.

Mr. Chaturvedi introduced sub-themes of the session - 'Role of Industry: Renewable Energy Options for Green Growth: Target 175 GW



Intriguing panel discussion on 'Environmental Governance for Sustainability' in progress: From L to R: Mr. Vipin Tyagi, Executive Director, C-DOT Centre for Development of Telematics, H. L. Chaudhary, CMD, National Projects Construction Corporation Ltd., Mr. S. Y. Quraishi, Ex-Election Commissioner, Govt of India, Mr. A.B. Agrawal, Executive Director, NHPC and Mr. Vijay Yadav, Automotive Research Association of India.



Mr. Shekhar Dutt, former Governor, Chhattisgarh State felicitating Mr. A.B. Agrawal, Executive Director, NHPC



Mr. Shekhar Dutt, former Governor, Chhattisgarh State presenting a memento to Mr. H. L. Chaudhary, CMD, National Projects Construction Corporation Ltd at the conclusion of a thriving panel discussion

by 2022', 'Energy Efficiency Programmes and Initiatives and their Impact', 'Promoting Sustainable Energy Choices through CSR Strategies and Social Business Projects', 'Electricity for All: Socio-Economic Impact', 'Providing LPG to BPL families and its impact on Indoor Air Quality and, Health, especially Women'. He explained the significance of sustainable energy options. He expressed his serious concern regarding energy scarcities prevailing in rural households/societies of India, and poor health status in rural households due to indoor air pollution.

Mr. Jain explained objectives of sustainable energy for all besides



Mr. Amitabh Kant, IAS, CEO, Niti Aayog greets the Chief Guest, Piyush Goyal, Hon'ble Union Minister of State (IC) for Power, Coal, New & Renewable Energy, Mines, Govt. of India during the Golden Peacock Awards night.

discussing in details the role of RETs in reviving the growth of economies, clean air quality issues, energy efficiency and that in future energy supplies scenarios RETs will be having the largest mix. He said tariffs of solar energy utilization are falling now due to changes in technology for storage with solar energy devices. Finally, he shared the story of Bihar regarding solar energy based storage by comparing its cost-effectives with traditional fuel.

Mr. Mudgal discussed in detail two business models and basis associated with these models i.e. On Bill Financing Model (OBE) and ESCO Model. He further went on explaining energy efficiency projects such as Unnat Jyoti by Affordable LED Lights for all (comprising 2-10 high quality 9 Watt LED bulb) , UJALA Project having reduced price of LED bulbs promoting high level of energy efficiency and reduction in GHG emissions.

Dr Hossain began his presentation by explaining wind turbine manufacturing process by his company, and discussed in detail draft policies of Ministry of New & Renewable Energy Sources for developing hybrid RETs (solar & wind mix) based power generation projects. He told that 100 GW solar power generations in India is an ambitious goal.

Mr. Chaudhry began his presentation by providing a detailed



Distinguished panelists engaged in a discussion on the Implementation of PARIS Climate Change Agreement - From L to R: Namita Vikas, Group President and Country Head - Responsible Banking, YES Bank Ltd, Dr Ajay Mathur, Director General, The Energy & Resources Institute (TERI) ( Chair of the session) , George N. Sibley, Minister Counsellor Economic, Environment, Science and Technology Affairs, Embassy of the United States, New Delhi and Prof. Rajendra P. Bharti, Professor & Director, Lal Bahadur Shastri Institute of Management & Technology.



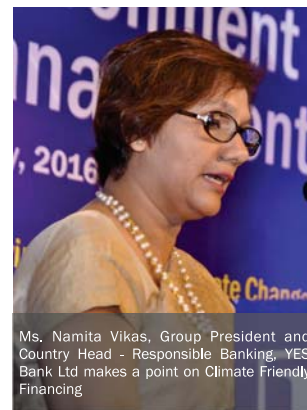
Piyush Goyal, Hon'ble Union Minister of State (IC) for Power, Coal, New & Renewable Energy, Mines, Govt. of India, Chief Guest at the Golden Peacock Awards Night during the Congress, enthralled the audience with his address.



Mr. Amitabh Kant, IAS, CEO, Niti Aayog enthused the audience with his insights on sustainable cities and growing urbanization.



George N. Sibley, Minister Counsellor Economic, Environment, Science and Technology Affairs, Embassy of the United States, New Delhi, sharing his insights on the implementation of the Paris Agreement



Ms. Namita Vikas, Group President and Country Head - Responsible Banking, YES Bank Ltd makes a point on Climate Friendly Financing

historical perspective on energy and its consumption and elaborated upon sustainable energy for all in Post COP-21 scenario. He told that the equation of energy generation, supplies and gap will be vastly different in future than present one and India will have to speed up its power generation by investing more in RETs. Energy auditing is required for making energy use visible and efficient. He also gave examples of distributed generation and smart grid approach in Sunder Bans area.

Mr. Sehgal gave his presentation on integration of renewable energy supply with PGCIL Green Corridor Project. He shared findings of PGCIL report on Green Energy Corridors and told that large, medium and small scale integration of RETs are to be made with energy distribution through Energy Management System Centers for all consumers.

Mr. Agrawal explained the relationships between energy generation, GHG emissions and climate change. While advising to move away from fossil fuel based energy generation, he told RETs are now gaining momentum, though, more than three million people still don't have access to clean energy. He cautioned by telling that by 2030, demand for energy supplies will be doubled and 40% will be met through RETs by 2050.

Mr. Chugh commented that hydro has lost - cost will never come down and issues of rehabilitation etc are very complex. Solar will now be moving on. "I think that we should just focus on solar".

**The next Plenary Session (VI) :** was on the sub theme -

"Challenges of Sustainable Urban Infrastructure Development: Sustainable Cities". The Session was Chaired by **Mr. T. Ramachandru**, IAS (retd.), Special Representative, Govt of Telengana in Delhi. The other co-panelists were: **Ms. Sandy Sheard**, Counsellor and Head - Energy, Climate & Growth Unit, British High Commission, New Delhi, **Mr. Manoj R. Dawane**, Vice President & Head Technology, Govt. & Industry Relations & Corporate Responsibility Region India, Ericsson & **Lt. Gen. Rajender Singh**, CEO, DLF Foundation.

Dr. Ramachandru introduced sub-themes of the session - 'Environment friendly building materials and construction', 'Smart Traffic Control and Smart Utility Management options for Controlling Environmental Emissions, Sanitation, sewerage and Municipal solid waste management solutions', and 'Swachh Bharat Mission'. 'Smart Cities in India: Policy and regulatory environment', 'Emerging Business Models for Ecological Security to scale-up Green Growth Solution'.

The chair explained in detail about the targets set for creating infrastructural facilities required for the new state of Telangana, and supported evolution of planned urbanization in India besides posing a question to all participants - 'Can Urban Development be ever made sustainable'? He also expressed his serious concerns about the highly growing population of India and told by 2020, we may be the most populated country in the world, surpassing China. As an excellence achieved in urban infrastructure, he cited the example of 160 km long having 6-8 lanes Hyderabad Ring Road, as the best road made in the country.



Ms. Namita Vikas, Group President and Country Head - Responsible Banking being presented a memento by Lt. Gen. Surinder Nath, PVS, AVSM (Retd), Vice Chairman, Institute of Directors.



Panelists engaged in an exciting discussion on 'Business Case for Environmental Sustainability through Green Economy' - From L to R: Mohini Daljeet Singh, Chief Executive, Max India Foundation, Dr Mahesh Gupta, Chairman & MD, Kent RO Systems Ltd. & President, PHD Chamber (Chair of the session), Ashish Khanna, CEO & ED, Tata Power Solar, Suman Sharma, Marketing Director, DSM Sinochem Pharmaceuticals India Pvt. Ltd.



Dr Mahesh Gupta, Chairman & MD, Kent RO Systems Ltd. & President, PHD Chamber opening the session on 'Business Case for Environmental Sustainability through Green Economy'



Mohini Daljeet Singh, Chief Executive, Max India Foundation emphasizing on the importance of environmental sustainability



Mr. Arun Balakrishnan, Chairman, IOD, Bangalore Chapter, Institute of Directors presenting a memento to Dr Mahesh Gupta, Chairman & MD, Kent RO Systems Ltd. for chairing a dynamic session on Environmental Sustainability

Ms. Sheard said that climate change is the single biggest threat and went into details of issues affecting urbanization and quality of life. She explained the UK government's experience sharing with Govt of India regarding effective urban planning and smart cities development programmes. She gave an overview of UK Partnerships in Urban projects in Kerala and Karnataka & West Bengal states. Finally, she enlightened about issues ensuring adequate planning, low carbon technologies based sound urban development and upcoming UK and India Partnerships.

Mr. Dawane began his presentation by focusing on equity debate, besides highlighting impacts of digitization and framework to be followed for making ICT based Smart cities. He discussed in detail on three questions related with smart cities – Is the City attractive? Is the City competitive? Is the city sustainable? He used Gurgaon and Bangalore as examples.

Lt. Gen. Rajender Singh felt deeply concerned about big gap existing among rich & poor in the country. He further stressed that plans of sustainable development of cities do not address equity, and shared a view that let there not be smart cities, but smart townships. He said that the country cannot grow to its fullest potential unless we do something about hubs of excellence, and suggested we learn lessons from Smart Cities development programs and projects of China.

## The Concluding Session of the day

## was Golden Peacock Awards Nite.

Mr. Ashok Kapur, Director General, IOD, briefly spoke about reasonable basis behind the lead being taken up by IOD in areas of environmental management. He further explained that India has its civilizational heritage to protect mother earth, and quoted Rachel Karlson the author of famous "Silent Spring". He told that 50% of human diseases are due to uncleanliness, and quoted from preaching of Mahatma Gandhi that "Cleanliness is next to Godliness".

Lt. Gen J.S.Ahluwalia President IOD welcomed Mr. Piyush Goyal, Hon'ble Union Minister of State (IC) for Power, Coal, New & Renewable Energy, Mines, Govt. of India besides providing a brief historical overview of Golden Peacock Awards, now well recognized across the world.

Mr. Kapur requested Hon'ble Minister to confer awards for Distinguished IOD Fellows on **Mr. Deepak Gupta**, IAS (retd.), Chairman, UPSC, **Mr. Kapil Dev Tripathi**, IAS, Secretary, Ministry of Petroleum & Natural Gas, **Mr. Sunil Kanoria**, Vice Chairman, SREI Infrastructure Finance Ltd. And President, ASSOCHAM and **Mr. Vijay Karia**, Chairman & Managing Director, Ravin Group of Companies. Then the Hon'ble Minister presented Golden Peacock Environment Management Awards. Details of the same are mentioned later in this issue.

Mr. Goyal began by congratulating IOD, all winners of Golden Peacock



Prof. Hibberd makes a point during the panel discussion on Combating Climate Change. From L to R: Balvinder Kumar IAS, Secretary, Ministry of Mines, Govt. of India ( chair of the session) , Prof Matthew Hibberd, University of Stirling, UK , Bimal Kumar Sarkar, Managing Director, Imerys Steel Casting India Pvt. Ltd. , and Mr. Arun Balakrishnan, Chairman-IOD, Bangalore Chapter



Balvinder Kumar IAS, Secretary, Ministry of Mines, Govt. of India delivering chair remarks and opening the session on 'Combating Climate Change through Markets - The Edge of a New Frontier'



Dr Jami Hossain, Senior Corporate Advisor, ReGen PowerTech addressing the audience during the plenary session on ' Ensuring Sustainable Energy for All'



Dr Mahesh Gupta, Chairman & MD, Kent RO Systems Ltd. & President, PHD Chamber opening the session on 'Business Case for Environmental Sustainability through Green Economy'



Mohini Daljeet Singh, Chief Executive, Max India Foundation emphasizing on the importance of environmental sustainability



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Balvinder Kumar IAS, Secretary, Ministry of Mines, Govt. of India delivering chair remarks and opening the session on 'Combating Climate Change through Markets - The Edge of a New Frontier'



Dr Jami Hossain, Senior Corporate Advisor, ReGen PowerTech addressing the audience during the plenary session on ' Ensuring Sustainable Energy for All'



Distinguished Panelists being felicitated at the conclusion of a power packed panel discussion on Ensuring Sustainable Energy for All- From L to R: Mr. A.B. Agrawal, Executive Director, NHPC, Mr. Manu Mudgal, Programme Advisor, GIZ, Sunil Jain, CEO & ED, Hero Future Energies Pvt. Ltd., Mr. Ashok Kapoor, IAS (retd), DG, Institute of Directors, Mr. Pradeep Chaturvedi, Vice President, Institute of Directors, Dr Jami Hossain, Senior Corporate Advisor, ReGen PowerTech, Anil Chaudhry, Country President & MD, Schneider Electric India and Y K Sehgal, Executive Director, Powergrid

'Distinguished Fellows' of IOD. He further spoke that all awards winners should get encouraged to re-double their efforts for much better environmental management in their respective business sectors. While telling about recent signing of Solar Power Agreement by the President of the World Bank, he revealed that the president, World Bank during the signing of this agreement, appreciated Prime Minister of India for India's lead in GHG Emissions reductions, and in other areas of Environmental Management. He said more government policies are coming up to support environmental management and solar manufacturing, through 'Make in India' programme. He ended his speech by congratulating IOD once again, completing their Silver Jubilee of excellent Services to corporate directors in India.

Mr. Amitabh Kant, CEO, Niti Ayog delivered his Special Address. He compared growth rates of Korea, Japan & China with India. Every minute 13 rural Indians move to Urban India, figures will continue to increase. While delivering his address, he provided a critical overview about American Model of growth and said that America created cities for cars not for people, thus created cities for pollution. If India replicates American Cities Model, the process of urbanization in India will require 4 planets like earth. India need to adopt & implement urbanization model different from America, based upon public transportation system not on cars. Waste management and recycling

of waste are two important elements.

**The Award ceremony was followed by Dinner.**

## SATURDAY, 09TH JULY 2016

The second day's deliberations started with Plenary Session (VII) on case study presentations. This session was chaired by Mr. Ranjan Dhawan, Ex. CEO & MD, Bank of Baroda. Following GPEMA winners made their presentations on best practices adopted and eco-innovations being carried out in their processes and operations:

1. Tata Motors Limited, Pantnagar
2. Allison Transmission India Pvt. Ltd.
3. Shree Cement Limited
4. PI Industries Limited
5. Robert Bosch Engineering and Business Solutions Pvt Ltd
6. GlaxoSmithKline Consumer Healthcare Ltd.
7. Rail Coach Factory, Kapurthala
8. Neyveli Lignite Corporation Ltd., Chennai
9. HPCL - Mittal Energy Limited
10. Natco Pharma Limited



Mr. K. L. Chugh, Chairman Emeritus, ITC Ltd., a member of the audience interacts with the panel during Q&A round



Sunil Jain, CEO & ED, Hero Future Energies Pvt. Ltd sharing his insights on Sustainable Energy



Ashok Kapur, IAS(Retd) Director General, IOD

## 11. JSW Energy Limited

**The Plenary Session (VII)** : was on the sub-theme – “Harmonizing Value Chain across the Health, Hospitality and Food Processing Industries”. It was Chaired by **Mr. Pawan K. Agarwal**, IAS, CEO, Food Safety and Standards Authority of India (FSSAI). The other co-panelists included : **Mr. Parag Gupta** IAS, Joint Secretary, Ministry of Food Processing Industries, **Mr. Kandarp Singh**, MD - South Asia Markets, Tetra Pak India Pvt. Ltd, **Ms. Praveen Gangahar**, Advisor, Quality Council of India and Team Lead Assessor for Food Safety, NABCB and **Mr. Pradeep Singh**, General Manager, NABARD.

Mr. Agarwal introduced sub-themes of the session – 'Opportunities in Food Processing Sector', 'Food Security through Sustainable Agriculture & Fisheries Production and Processing', 'Environment Friendly Hospitality Services', 'Environment Conscious Hospitals and Health Services'.

Mr. Gupta provided an overview of food processing industry in India, informed about its share of 9.8% of manufacturing GDP, and providing 1.8 million employments. He said post - harvest management has to ensure reduction in the waste of food from farm level through the whole cycle of processing.

Mr. Singh said that the value chain has gone through massive transformation in last few years, and informed about food safety related commitments of Tetra Pack India. While explaining the concept of recycling being adopted and implemented, he concluded that solid waste management is the responsibility of the producer as per latest provisions of Solid Waste Management Rules.

Ms. Gangahar elaborated consumer expectations, adaptation of sustainable manufacturing technologies and environmental management practices. She explained requirements of sustainable standards for food processing, and compliance to more voluntary standards and stressed on the need for having more holistic sustainable standards than existing ones such as Global Alliance for Best Aquaculture Practices and Bio-Diversity management.

Mr. Singh explained Programmes for Tribal Development Fund and support given to 32 state level Climate Change Action Plans and contributions being made by NABARD, towards National Adaptation Fund for Climate Change and Green Climate Fund etc.

**The next Plenary Session (IX)** : was on the sub theme: “Environmental Governance for Sustainability”. It was Chaired by **Mr. S.Y. Quraishi**, Ex-Election Commissioner Government of India. The other co-panelist included - **Mr. H. L. Chaudhary**, CMD, National Projects Construction Corporation Ltd, **Mr. A. B. Agrawal**, Executive Director, NHPC, **Mr. Vijay Yadav** made presentation in place of **Ms. Rashmi Urdhwarshre**, Director, Automotive Research Association of India (ARAI) and **Mr. Vipin Tyagi**, Executive Director, C-DOT Centre for Development of Telematics.

Mr. Quraishi introduced sub-themes of the session:- 'Environment monitoring - Pricing and Reporting of Natural Resources', 'Embedding Corporate Environment Management for Sustainability',

'Sustainable, Development and Inclusive growth', 'Integrated Legal Framework - Environmental and Ethical dimensions', 'Energy Security & GHG Emission Reduction goals'.

He presented his views on environmental sustainability, informing that 11,000 tons of paper was saved by implementing Electronic voting system. Huge amount of water was also saved. He did not allow more than 10 cars per candidate during the election to reduce air pollution and to reduce GHG emissions. He mentioned that India ranked at 125 in the world in Environmental Sustainability and left a question to ponder by participants – 'Why cannot we establish Gold Standards in Environment also?'

Mr. Chaudhary elaborated upon his experiences with ITBP Project in Laddakh where entire energy supply is based on solar and geo-thermal energy sources and NYPH project in Hyderabad, which is also based upon total solar energy utilization. Finally, he said that environmental policies and regulations of Govt of India need to be implemented strictly for ensuring desired level of environmental & social sustainability.

Mr. Agrawal while quoting from great epics Ramayana and Mahabharata, suggested that the exploitation of natural resources should be carried out with due regard to needs of future generations. He concluded that hydropower generates less waste in comparison with RETs and thermal power, and effects of chemicals use in solar power panels causes cancer.

Mr. Yadav explained ISO standards certification being implemented by ARAI besides explaining other activities of the same, and also briefed participants about environmental challenges being faced by automobile industry. He elaborated upon ARAI research on the development of Engine Technologies for controlling air pollution and assistance provided by ARAI to CPCB in formulating Air quality.

Mr. Tyagi said that sustainability is multidimensional and almost entire world has its own national band width plan which requires huge consumption of electricity. He explained GPON System interfaces by C-DOT and suggested that new networks are to be developed along with provisions of energy auditing in order to reduce GHG emissions and resulting carbon footprints, and advised that judicious use of wireless technologies be made while promoting solar photovoltaic.

## Special Address

**Lt. General Surendra Nath** invited **Mr. Shekhar Dutt**, former Governor, Chhattisgarh State to deliver a special address. Mr. Dutt delivered a lecture focusing on administrative reforms, concept of sustainable development besides posing a question to participants- 'What is development'? He further shared his experiences with Dr. MS Swaminathan and stressed upon the promotion of sustainable agriculture, while enriching biodiversity base and shifting of rural people to urban areas. Finally he told that India has largest pharmaceutical industry in the world, though beset with issues of environmental sustainability. He pleaded for in-situ food processing industries near the horticulture producing centers/ industries.

The last Plenary Session (X) of the Congress was the Case study presentations &

“Stories of Success on Occupational, Health & Safety”. It was Chaired by Mr. Pradeep Chaturvedi, Vice President, IOD. He invited following Golden Peacock Award Winners for Occupational Health & Safety to make their presentations for OSH practices being adopted and implemented by them in their respective process & operations and have led them to win awards :

1. Maruti Suzuki India Ltd.
2. Mahle Filter Systems India Pvt. Ltd, Chennai
3. UltraTch Cement Limited
4. UPL Limited
5. Metso India Pvt. Ltd.
6. Mother Dairy Fruit & Vegetable Pvt. Ltd.
7. Gujarat Gas Limited

8. Rifle Factory Ishapore
9. Hindustan Petroleum Corporation Ltd.
10. Reliance Industries Ltd., Nagothane Manufacturing Division
11. Rosa Power Supply Company Ltd., Shahjahanpur

### Concluding remarks

Lt. Gen Ahluwalia, President, IOD addressed the participants and thanked them for their significant contributions and also thanked the sponsors for their support. He expressed that the Congress witnessed rich discussion and has arrived at significant conclusions that may be recommended to authorities for action.

He also thanked all the sponsors for their support throughout the Congress.

The President thanked the staff and security of Hotel Ashok for being very cooperative and making good arrangements.

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