

# ABOUT THE SPEAKERS

## Inaugural Session:

### Moderator: Uwe Becker, GIZ India

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Senior Advisor | Resource Efficiency & Management of Secondary Raw Materials, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

After having graduated in civil engineering at the University of German Army in Munich in 1981 Uwe Becker continued his army officer's assignment till 1988. Thereafter he worked in the private economy in various positions as project manager and managing director and since 1994 he worked for a leading German waste management group in the fields of waste selection & separation, production of secondary fuels, and co-firing projects of secondary fuels & biomass in cement and power industries. In 2008 he joined an international technical consultancy and worked in the field of sourcing, transport, production, and co-firing of secondary fuels and biomass for the purpose of thermal renewable power production.

In 2014 he started at GIZ-India as Senior Advisor for the project Resource Efficiency and Management of Secondary Raw Materials in the context of the Indo-German bilateral development cooperation.



### Shri A.K. Mehta

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Joint Secretary | Ministry of Environment, Forest & Climate Change, India (MoEF&CC)

A member of the Indian Administrative Services (IAS-1988) and an alumni of Indian Institute of Technology (IIT), Delhi and Indian Institute for Public Administration (IIPA), Mr. Mehta's current position in the MoEF&CC focuses on International Cooperation, Sustainable Development, Policy and Law and Vigilance. Prior to this, he was Principal Secretary, Department of Power Development, Jammu & Kashmir (J&K), India wherein he contributed to the decrease in Aggregate Technical and Commercial losses and improvement in distribution systems, including lowering of power procurement costs. As Joint Secretary, Ministry of Urban Development (MoUD), GoI (2008-2011) he contributed to the policies related to MoUD including National Urban Sanitation Policy, Service Level Benchmarking, Urban Infrastructure Development of Satellite Towns, North Eastern Region Urban Development Programme and the Solid Waste Management Project in 10 Airfield Towns. He also served as the Director and Deputy Secretary in the Climate Change division, MoEF&CC on issues related to Clean Development Mechanism, Intergovernmental Panel on Climate Change (IPCC), and climate change negotiations at the various Conference of Parties to United Nations Framework Convention on Climate Change (UNFCCC).



## **Dr. Helge Wendenburg**

Director General | Directorate, Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety, Germany (BMUB)

Since 2005, Dr. Helge Wendenburg is heading the Directorate for 'Water Management and Resource Conservation' of the Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety in Bonn, Germany. Since 2010 the Directorate is also responsible for Ecologic Resource Efficiency. Dr. Wendenburg studied law at the University of Göttingen, where he attended the Institute for Political Science from 1979 till 1982 and obtained his Doctorate in Law. From 1983 he occupied a variety of roles in the District Government of Brunswick before transferring in 1990 to the Ministry of Environment of Lower Saxony, where he headed various divisions and finally the Directorate for Waste Management and Air Pollution Control. He is a Member of the Board of the German Water Association (DWA) and the Academy of Geological Sciences.

He is the author of various articles concerning water, waste management and waste legislation, which have been published in a range of journals, periodicals and newspapers. He is the co-editor of a commentary on waste management law and sits on the board of editors of the German scientific periodicals 'AbfallR', 'Müll und Abfall' and 'Umwelt- und Planungsrecht (UPR)'.



## **Dr. Bettina Rechenberg**

Head | Department Sustainable Production, Resource Conservation and Material Cycles, Federal Environment Agency (UBA)

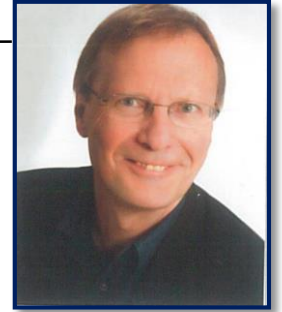
Dr. Bettina Rechenberg studied biology at the Humboldt University in Berlin and holds a PhD in ecology. Since 1992 she has been working at the German Federal Environment Agency dealing with surface water quality and the environmental risk assessment of pharmaceuticals, washing and cleansing agents and nanomaterials. Since 2010 she is working as head of the department "Sustainable Production, Resource conservation, Material Cycles".

The department focuses on promoting material and energy efficient technologies and processes in industrial branches. Main working areas are also the European information exchange on best available techniques (BAT), waste and wastewater management and the improvement of recycling methods and use of recycling material.



## Frank Samol

Director | Indo-German Environment Partnership for Urban and Industrial Development, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH



Frank Samol is an architect with international expertise in integrated urban planning, slum upgradation, sustainable urban development, urban infrastructure planning and urban upgrading. In his career spanning over thirty years, Mr. Samol has coordinated projects in Europe, Africa, Asia and Latin America in countries such as Egypt, Palestinian territories, Chile, Romania as well as Germany and India.

Mr. Frank Samol is the Head of the Indo-German Environment Partnership for Urban & Industrial Development (IGEP-UID), a programme of GIZ (Deutsche Gesellschaft fuer Internationale Zusammenarbeit GmbH) in cooperation with Government of India. The projects under this programme aim at sustainable urban and industrial development, resource efficiency, river rejuvenation as well as on environmental protection and climate change mitigation. He is furthermore the Project Director of the technical cooperation project of “Inclusive Cities Partnership Programme”.

## Session 1: Introduction to the Indian Resource Panel (InRP)

### Moderator: Nitin Desai

Ex – Under Secretary-General | Economic and Social Affairs, United Nations

Nitin Desai, a graduate of LSE, taught economics at two UK Universities, worked briefly in the private sector, had a long stint as a government official in India and then joined the UN in 1990. In India he was in the Planning Commission (1973-88) and later in the Ministry of Finance as the Chief Economic Adviser (1988-90). In the UN, where he was Under Secretary General for Economic and Social Affairs, his major work was the organization of a series of global summits, notably the Rio Earth Summit (1992), the Copenhagen Social Development Summit (1995), the Monterrey Finance and Development Summit (2002) and the Johannesburg Sustainable Development Summit (2002).

After his retirement he has been involved in a variety of public policy activities nationally and internationally. He is a member of the National Security Advisory Board and the Prime Minister’s Council on Climate Change. He is a Distinguished Fellow of TERI and is a Honorary Fellow of the LSE. He writes a monthly column in the Business Standard.



### Dr. Rachna Arora

Senior Technical Advisor | Resource Efficiency & Management of Secondary Raw Materials, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Dr. Rachna Arora is working in the Resource Efficiency project of the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH on issues related to fostering resource efficiency and secondary resource utilization in the construction and mobility sector. She has been working with GIZ since 2007 under the bilateral projects, combi-finance projects of the European Commission and the partnership projects with the private sector with relevant Ministries and government departments. Her areas of expertise are electronic waste management, climate change, sustainable consumption, environmental fiscal instruments and circular economy. She is a doctorate degree in environmental chemistry from Indian Institute of Technology (IIT) Roorkee. She has published several articles and papers in national and international journals, book publications and is a part of the Research and Development (R&D) committee set up by the Department of Information Technology and Communication, GoI on electronic waste management.



## Shri R. H. Khwaja

Former Secretary | Ministry of Environment, Forest & Climate Change, India (MoEF&CC)

Shri Rajen Habib Khwaja has served as Special Secretary, Ministry of Environment, Forests and Climate Change (MoEF&CC), Government of India.

He later served as Secretary, Ministry of Mines and Ministry of Tourism. He belongs to the 1976 batch of the Indian Administrative Service (IAS).

He completed his graduation in 1974 from St Stephen's College, Delhi. His post-graduation in history is from Aligarh Muslim University.

Shri R.H. Khwaja is a committed environmentalist with special interest in the conservation of biological diversity.



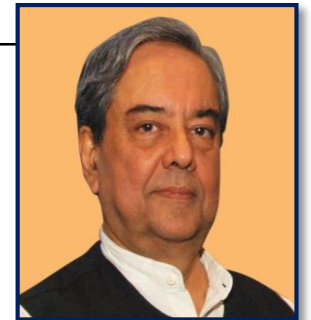
## Dr. Ashok Khosla

Founder and Chairman | Development Alternatives (DA), India

Experimental physicist from Cambridge and Harvard Universities, Dr. Ashok Khosla is one of the world's foremost experts on the environment and sustainable development. He was the first Director in the Indian Government's first Environment Office in 1972 and then Director of Infoterra at UNEP in 1976. Since 1983, he has been Chairman of Development Alternatives Group, a social enterprise that promotes sustainable livelihoods and commercially viable and environmentally friendly technologies.

Dr. Khosla is also Co-Chair of the UN's International Resource Panel and member of the China Council for International Environment and Development. As a Co-chair of the IRP he was responsible for shaping the 2010 report on 'Priority Products and Materials: Assessing the Environmental Impacts of Consumption and Production'.

Dr. Khosla has served on the boards of numerous global environmental organisations, including the Club of Rome, the International Institute for Sustainable Development and the International Union for Conservation of Nature. He was President of the International Union for Conservation of Nature.



## Dr. Ajay Mathur

Director General | Bureau of Energy Efficiency

Dr. Ajay Mathur is Director General of the Bureau of Energy Efficiency, and a member of the Prime Minister's Council on Climate Change. As Director General of BEE, Dr Mathur coordinates the national energy efficiency programme, including the standards and labeling programme for equipment and appliances; the energy conservation building code; the industrial energy efficiency programme, and the DSM programmes in the buildings, lighting, and municipal sectors. Prior to joining BEE, Dr Mathur has worked on energy research, financing, and implementation. He has headed the World Bank's Climate Change Team in Washington, DC; and the Energy Engineering Division of TERI in New Delhi; and has also been President of Suzlon Energy Limited.

Dr Mathur received his Bachelor's degree in Chemical Engineering from the University of Roorkee, and PhD from the University of Illinois. He received the Outstanding Alumni Award of the University of Illinois in 2002. Dr Mathur is the co-author of three books, and has been a lead author of the IPCC.



## Dr. Tishyarakshit Chatterjee

Director | Indian Institute of Public Administration, India (IIPA)

Dr. Tishyarakshit Chatterjee is part of the Andhra Pradesh cadre of the Indian Administrative Service (IAS) and has served in different capacities at the district and state level. Some of his major postings include Member Secretary of the State Pollution Control Board of Andhra Pradesh, Principal Secretary of the Municipal Administration Department, Principal Secretary of Environment and Forests, Principal Secretary of Roads and Buildings Department, and Director for the Environment Protection Training and Research Institute (EPTRI) in Hyderabad. He helped start India's first Hazardous Waste Transport, Storage and Disposal Facility (TSDF) near Hyderabad in Public Private Partnership (PPP) mode.

Additionally, he helped start India's first four Common Bio-Medical Waste Management Facilities in the PPP mode.

He was an early user of GIS based satellite imagery interpretation for environmental location of townships and industry in 1998.





## Shikhar Jain

Principal Counselor | Confederation of Indian Industry (CII), India

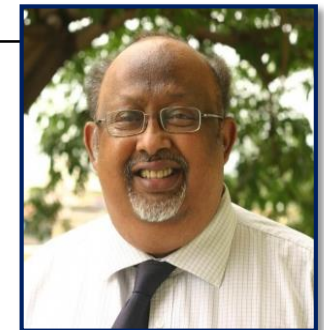
Shikhar Jain, has over 20 years of experience as business sustainability expert and operational management with variety of industries, where he designed, implemented and integrated Quality, Environmental, Health & Safety and Social programs/management systems in over 100 individual facilities and for corporate-wide operations. He has developed and implemented best practices for several top Indian and global firms, on areas of improved operational efficiency, good EHS practices, introduction to reduce-recycle and waste management projects and enhanced compliance management. Responsibilities includes training, advisory and consulting on a wide spectrum including leadership & strategy on sustainability, sustainability assurance, resources management, and sustainability reporting & management framework. Mr. Jain represents the Confederation of Indian Industry (CII) in various committees and working groups of the Bureau of Indian Standards, on ISO 14000 Series, including Green Manufacturing, AccountAbility, UK, and Global reporting Initiative and has been involved with development of international standards ISO 26000; Guidance on Social Responsibility, GRI G4 Guidelines & AA 1000 SES on Stakeholder Engagement. Have been team member for QCI introduced rating scheme for ZED (Zero Effect & Defect). He has been nominated as CII representative on the Board of Governors of NSC, Mumbai.



## Dr. Prasad Modak

Executive President and Founder | Environment Management Centre (EMC)

Dr. Modak is currently Chief Sustainability Officer (CSO) at IL&FS and Dean of IL&FS Academy for Applied Development. Prasad Modak founded EMC when he left the Indian Institute of Technology (IIT) Bombay in 1995 where he was faculty at the Centre for Environmental Science and Engineering (CESE) from 1984. He has worked with almost all key UN, multi-lateral and bi-lateral development institutions in the world. Apart from Government of India and various State Governments, Dr. Modak's advice is sought by Governments of Bangladesh, Egypt, Indonesia, Mauritius, Thailand and Vietnam. His extensive consultations and involvement in the Asian region in particular has led to building implementation capacities of key environmental institutions. He has authored and executed more than 400 consulting reports and trained more than 6000 professionals across the World. Dr. Modak has published books with UN University, Oxford University Press, UNEP and Centre for Environmental Education in India. He served as Hon Editor of the Journal of Indian Water Works Association between 1998 and 2004. Recently, he contributed chapters on Waste Management & Recycling in UNEP's Green Economy Report and Global International Workshop on Securing Sustainable Resource Utilization and Reuse of Secondary Raw Materials by Fostering Resource Efficiency, November 17, 2015, Hotel Le Meridien, New Delhi





Waste Management Outlook and prepared UNEP Wide Action Plan on Waste to Resource Management. Dr. Modak's work on Cleaner Production and Green Productivity has been well recognized across the World. Some of his work with UNEP/UNIDO includes Global Status Report on Cleaner Production (2002), Cleaner Production Companion and Training & Guidance Manuals for National Cleaner Production Centres (NCPCs). For the Asian Productivity Organization, Tokyo, Dr. Modak prepared series of Training Resources on Green Productivity.

## Session 2: Resource Efficiency in Construction Sector

**Moderator: Dr. Prasad Modak**

### **Dr. Soumen Maity**

Chief General Manager | Development Alternatives (DA), India

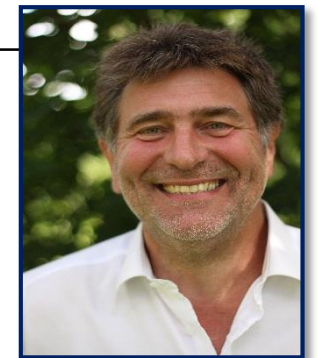
Dr. Maity is a Materials Scientist, with a special interest in innovation and incubation of developed technologies in the field of Energy, Habitat, Clean Technologies and Waste-to-Wealth. His Phd. Thesis on “Impact fatigue behaviour and structure property correlation of India porcelain ceramic materials” paved the path for his work on clean technology production especially in the construction and building material sector. At Development Alternatives, he is leading a professional team of civil, mechanical, energy, materials and environmental specialists for research and development on low cost building materials, utilization of industrial wastes, rural renewable energy programmes, energy efficient brick production technologies. He has been instrumental in shaping the VSBK programme (technical) from a firing technology to an entire brick production system encompassing soil selection, testing and suitability for use in VSBK technology. He has also worked closely in influencing brick sector policies by the various state and central governments of India and Bangladesh. He is currently involved in developing along with a team of eminent scientists in India and Switzerland, a low carbon energy efficient cement. His work on secondary raw materials in the construction sector encompasses innovation and research as well as scale out of enterprise using these solutions.



### **Juergen Giegrich**

Scientific Director | Institute for Energy and Environmental Research GmbH (IFEU), Germany

Jürgen Giegrich studied physics at the University of Heidelberg and worked in the Institute for Environmental Physics of the University. In 1986, he joined the IFEU - Institute for Energy and Environmental Research Heidelberg and since then has been working in different fields like Waste Management, Life Cycle Assessment (LCA), Material Flow Analysis and Resource Policy. His main focus during the last years is research work in the field of resource and raw material policy for clients like the German Environment Agency, the European Commission, Eurostat, GIZ and the private sector. Jürgen Giegrich chairs several standardisation activities for ISO, DIN and the German Association of engineers VDI. The IFEU Institute is a non-profit multidisciplinary research organisation based in Heidelberg and Berlin. Originally founded by scientists of the Heidelberg University in the year 1978, IFEU is one of the oldest independent environment research institutes in Germany. Nowadays IFEU employs more than 60 scientists working in research fields like sustainable management of energy, transportation, biomass, waste and natural resources.



## Srikanth Yajjala

Scientist B | Bureau of Indian Standards (BIS)

Srikanth Yajjala is a Graduate in Civil Engineering and also has a Post Graduate Diploma in Town and Country Planning. He is currently working as Scientist 'B' in Civil Engineering Department, Bureau of Indian Standards, New Delhi and dealing as Member Secretary of the national technical committees in the area of:

- a) Sustainability in Building Construction,
- b) Public Health Engineering,
- c) Flooring, wall finishing and roofing,
- d) Firefighting & Fire Safety

The Bureau of Indian Standards (BIS), the National Standards Body of India is a statutory organization under the Bureau of Indian Standards Act, 1986. BIS formulated around 19000 Indian Standards in various fields including the Construction Industry under the aegis of more than 300 technical committees.



## Session 3: Resource Efficiency in Mobility Sector

### Moderator: Shri Ambuj Sharma

Additional Secretary | Ministry of Heavy Industries (MoHI), India

Shri Ambuj Sharma, Additional Secretary, Govt. of India is a Post Graduate in Geology and Business Administration. He is a member of the Indian Administrative Service (IAS) 1983 batch. He has held various senior level posts in the State Government of Tamil Nadu as well as the Government of India in different departments such as Industry, Revenue, Home and Urban Development. He also oversees implementation of the National Auto Testing, Research and Infrastructure Project (NATRIP) aimed at establishing modern, state of the art auto testing, and homologation and R&D facilities at seven centres across India. He has also been on the governing boards of BHEL, HPC, ARAI & NATRIP.



### Souvik Bhattacharjya

Fellow | The Energy and Resources Institute (TERI), India

Souvik Bhattachariya is a trained resource economist. He completed his master's program in economics (with specialization in world economy) School of International Studies (SIS), Jawaharlal Nehru University (JNU), New Delhi and has almost 12 years of experience in the research and management consulting industries. Currently he is a Fellow at Green Growth and Resource Efficiency Division of TERI, New Delhi. Before joining TERI, he worked with Accenture Management Consulting, for their strategy group. He has also been a research fellow at the Centre for Development and Environment Policy, Indian Institute of Management (IIM) Calcutta.



He has undertaken and led various consultancy and research assignments related for ministries, bilateral and multilateral organizations, private organizations, industry associations, on issues related to energy and non-energy based natural resources. Key assignments includes extensive market demand analysis and forecast of fuel and non-fuel resources, trade in resources, sustainability assessments of industrial/infrastructure projects, pricing and taxation strategies, etc. He has led many capacity building activities for corporates, academia and civil society organizations. He was awarded the Young Global Economic Fellowship (GES) in 2011 by the Kiel Institute of Global Economy, selected lead author twice by UNEP for its flagship report on Global Environment Outlook (GEO) and a member of the scientific committee of the World Resources Forum-Asia Pacific – 2015.

## Werner Maass

Deputy Head of Centre | VDI Zentrum Ressourceneffizienz GmbH

Prior to working with VDI, Werner was with the Software and Service Industry for 8 years where he worked with companies like Dynatrace GmbH, Wily Technology Deutschland GmbH, Teleplan Deutschland GmbH and Nemetschek AG. He also possesses Marketing and Sales experience in the IT Industry where he worked for 15 years with companies like NEC Deutschland GmbH, Panasonic Deutschland GmbH and Bertelsmann Computer Beratungsdienst GmbH. Additionally, he served as a lecturer and scientific assistant at Forschungsprojekt der Fachhochschule für Verwaltung Berlin, funded by the Deutsche Forschungsgemeinschaft (DFG)



## Dr. Lars Zeggel

Project Manager | Fraunhofer Institute for Silicate Research ISC, Project Group Materials Recycling and Resource Strategies IWKS

Studies of geosciences at the University of Jena with focus on hydrogeology in a former uranium mining region. PhD in microbiology on “microbial assisted phytoremediation of demolition wastes from nuclear power plants. Since 2012 focus on development and evaluation of technologies and strategies for the recovery and sustainable use of phosphorus. Currently employed at the Fraunhofer Project Group IWKS in the section Phosphorus Management.

Fraunhofer is Europe’s largest application-oriented research organization. The IWKS carries out research on recovery, recycling and substitution of resources. For this purpose, innovative separation, sorting, processing technologies and strategies are developed in cooperation with industrial partners, to deal sustainably with valuable resources. Main activities are the analysis of different recycling and composite materials, Feasibility studies, Material flow analyses and the development of recycling technologies.



## Dinesh Vedpathak

Head Cluster Program | Automotive Component Manufacturer's Association (ACMA) – Centre For Technology (ACT)



Dinesh Vedpathak is a graduate Mechanical Engineer. He has also acquired fellowship in Manufacturing Management from the Kalyani Cranfield University, UK. He has travelled across the world to undergo training and understand TQM, Environmental Practices & Flow Manufacturing with his vast knowledge & experience in the field of manufacturing, he has mastered Flow Manufacturing which practice has been implemented in many companies in India. He has also presented many papers on the subject in various conferences. He has developed training material in various elements of “Lean Manufacturing” that is standardized through well designed “Road Maps” for implementation.

ACMA drives cluster programs from year 1999 in the areas for manufacturing Excellence, Engineering Excellence, and New Product Development & Zero Defect – Zero Effect Cluster Programs. ACMA’s Advance Cluster and Engineering Excellence Cluster programs has helped companies to reduce Energy and consumable costs in the tune of 35 % by making machine and its accessories lean by using its own tool “ Advance 5 S – Applying 5 S to 6 M resources”

All ACT\* Cluster programs follow “**Indian Production system**” authored by Mr. C Narasimhan, Chief Mentor ACT.