



INDIAN
NATIONAL
ASSOCIATION

2017 Annual Conference TOWARDS A RESOURCE RESILIENT INDIA

SECURITY OF NATURAL RESOURCES FOR ALL
THE CRITICAL NEED FOR COHERENCE IN POLICIES AND ACTIONS

16th - 17th November, 2017
Mumbai, India

SPEAKERS PROFILE



SPEAKER PROFILE

VICE ADMIRAL GIRISH LUTHRA, PVSM, AVSM, VSM, ADC

Flag Officer Commanding-in-Chief Western Naval Command



Commissioned into Indian Navy in 1979. Specialised in Navigation and Direction. Operated extensively on Naval Warships. Dealt with Strategy, Net Assessments, Plans, Operations, Disaster Management, Acquisitions, Budget & Finance, Foreign Cooperation, Cyber, Space and Training. Held key and challenging Leadership, Management and HR roles, including large organisations. Published/ Presented number of documents/ papers including at Raisina Dialogue, APCSS Hawaii, India Economic Forum, War and Defence Management Colleges, Universities and think tanks in India and abroad.

Graduated from Jawaharlal Nehru University (National Defence Academy), Post Graduated in Defence and Strategic Studies from University of Chennai, one year long resident courses at Defence Services Staff College, Wellington, and Naval War College, Newport, Rhode Island, USA, where he was also the Class President.

Key Appointments Held

Command of Indian Naval Ships Khukri, Talwar and Aircraft Carrier Viraat

Deputy Naval Adviser, High Commission of India, London

Assistant Chief of Naval Staff (Policy & Plans)

Flag Officer Commanding Western Fleet

Director General of Naval Operations

Deputy Chief of Integrated Defence Staff (Operations)

Commander-in-Chief, Southern Naval Command

Commander-in-Chief, Western Naval Command

Key Official Documents Authored/ Steered

Western Fleet Exercise Reference Manual- (1996)

People, Assets and Combat Efficiency (PACE) - (2006)

Indian Maritime Doctrine- (2008)

Maritime Capability Perspective Plan 2012 – 2027 - (2010)

Indian Navy Operations Book - (2014)

Defence Space Roadmap 2030- (2015)

S. RAMADORAI



Mr. S. Ramadorai has been in public service since February 2011 having recently completed a 5 year term in the area of Skill Development. During his tenure as the Chairman of National Skill Development Agency (NSDA) and the National Skill Development Corporation (NSDC) his approach was to standardize the skilling effort, ensure quality and commonality of outcomes by leveraging technology and create an inclusive environment to co-operate, collaborate & co-exist. He strongly believes that empowering youth with the right skills can define the future of the country. Mr.

Ramadorai is currently the Chairman of the Advisory Board at Tata STRIVE, which is the Tata Group's CSR skill development initiative that aims to address the pressing national need of skilling youth for employment, entrepreneurship and community enterprise. In addition to the above positions, he continues to be Chairman of AirAsia (India), Tata Advanced Systems Limited and Tata Technologies Limited. Recently, in March 2016, he retired as the Chairman of the Bombay Stock Exchange (BSE Limited) after having served for a period of 6 years on the board. He continues to be an Independent Director on the Boards of Hindustan Unilever Limited, Asian Paints Limited and Piramal Enterprises Limited.

Mr. Ramadorai took over as the CEO of Tata Consultancy Services (TCS) in 1996 when the company's revenues were at \$ 155 million and since then led the company through some of its most exciting phases, including its going public in 2004. In October 2009, he retired as CEO, leaving a \$ 6 billion global IT services company to his successor. He was then appointed as the Vice Chairman and held office until he retired in October 2014, after an association of over 4 decades with the company.

Given his keen passion to work for the social sector and community initiatives, he also serves as the Chairman on the Council of Management at the National Institute of Advanced Studies (NIAS) and the Chairman of the Governing Board at the Tata Institute of Social Sciences (TISS). He is also the President of the Society for Rehabilitation of Crippled Children (SRCC) – which is building a super speciality children's hospital in Mumbai.

In recognition of Ramadorai's commitment and dedication to the IT industry he was awarded the Padma Bhushan (India's third highest civilian honour) in January 2006. In April 2009, he was awarded the CBE (Commander of the Order of the British Empire) by Her Majesty Queen Elizabeth II for his contribution to the Indo-British economic relations. In 2016, he was also awarded The Economic Times - Lifetime Achievement Award for his glorious contribution to Tata Consultancy Services.

His academic credentials include a Bachelors degree in Physics from Delhi University (India), a Bachelor of Engineering degree in Electronics and Telecommunications from the Indian Institute of Science, Bengaluru (India) and a Masters degree in Computer Science from the University of California – UCLA (USA). In 1993, Ramadorai attended the Sloan School of Management's highly acclaimed Senior Executive Development Program.

Ramadorai is a well recognized global leader and technocrat who has participated in the Indian IT journey from a mere idea in 1960's to a mature industry today. Ramadorai captured this exciting journey in a wonderfully personalized book titled 'The TCS Story...and beyond' which was published in 2011 and remained on top of the charts for several months.

Among his many interests, Ramadorai is also passionate about photography and Indian classical music.

DR. ASHOK KHOSLA



Dr. Ashok Khosla is the Chairman of Development Alternatives and also the Co-Chair of the UN's International Resource Panel. He was the former President of IUCN and the Club of Rome and Director Earlier, he was the Director of the Office of Environment, Government of India and responsible for setting up the first national environmental agency in the developing world. Subsequently was Director, INFOTERRA in the United Nations Environment Programme, in charge of the design and implementation of the global environment information system.

He has been consultant to the World Bank, United Nations, GEF and various other inter-governmental and government agencies and Special Advisor to the Brundtland Commission. Also was a consultant to the MacArthur Foundation, IDRC, Royal Swedish Academy of Sciences, and other independent international bodies. These include his terms as President, International Union for Conservation of Nature (IUCN); President of the Club of Rome. Chairman of WETV and the global access TV network. He has served on the boards of several international agencies, including the Worldwide Fund for Nature (WWF), EXPO 2000, ZERI, the International Institute for Sustainable Development, the Stockholm Environment Institute, the Earth Council and the Centre for Our Common Future. He was also the Chairman of '92 Global Forum, the NGO counterpart of the Earth Summit at Rio de Janeiro; Cofounder of the Factor 10 Club and has been on the Board of several government, industry and NGO bodies in India, including the National Environment Council and of the Science Advisory Committee to the Cabinet. Dr Khosla has authored more than 300 papers and articles; and has been the editor of the monthly journal "Development Alternatives". His work has been recognized in the form of many accolades and awards. He was awarded the United Nations Sasakawa Environment Prize in 2002. Ashok Khosla graduated from Cambridge University and received his doctorate in experimental physics from Harvard University. He lectured at Harvard on physics, astronomy and environment.

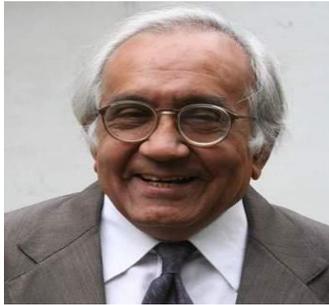
RANJIT BARTHAKUR



Ranjit Barthakur, 62 serves as an advisor to several Government and Private Enterprises in pursuit of health care services, environmental issues, tourism and social transformation.

The Chief Architect of the thought process of developing the theme of Naturenomics-relates to an alternative approach to capital formation for a region or organization through the creation of ecologically 'compliant' assets in a sustainable manner and co-founder of several initiatives promoting Agriculture. Ranjit is an entrepreneur with over 40 years of experience in managing and leading companies in a wide range of industries, including FMCG, Telecommunications, Tourism, Technology, Environment, Agriculture Outsourcing, and Health Care. Ranjit firmly believes in 'Social Entrepreneurship towards Betterment of Environment and Health and is consistently driving these initiatives and projects. Ranjit has initiated growth projects for public interest, social development, and innovation in related business, environmental conservation (Balipara Foundation) and market consolidation. He writes and speaks regularly on Climate Change, Environmental, Water, and Social entrepreneurship both in National and International issues. As an individual deeply committed to the North East India and works with various initiatives in this region.

Kirit Shantilal Parikh



Former Member, Planning Commission, Government of India
Chairman, Integrated Research and Action for Development (IRADe),
New Delhi
Former (Founder) Director (Vice Chancellor), Indira Gandhi Institute of
Development Research (IGIDR), Mumbai - An Advanced Research
Institute He was honoured with Padma Bushan by the President of India
in March 2009. He is a Fellow of the National Academy of Sciences,
India.

Dr Kirit S. Parikh has a Doctor of Science in Civil Engineering and a Master's Degree in Economics from MIT, USA. He has been a Professor of Economics since 1967. He was the Chairman of the Integrated Energy Policy Committee, Planning Commission. He was a Member of the Economic Advisory Council (EAC) of the Prime Ministers of India, Atal Behari Vajpayee, P.V. Narasimha Rao, Chandra Shekhar, V.P.Singh and Rajiv Gandhi. In the past he had also been a member of the National Committee for Environmental Planning & Co-ordination, the National Committee on Science and Technology and the Fuel Policy Committee.

In 2003 he was made honorary life member of the International Association of Agricultural Economists (on an average given to two persons a year in the world). He had been president of The Indian Econometric Society and Gujarat Economic Association. He is on the governing board of many development research Institutes in India. He has also been Chairman of some of these. He is the Chairman of the Indian National Committee (India NMO Committee) for the India-IIASA (International Institute for Applied Systems Analysis) Programme. Dr. Parikh had been in the past on the Board of Directors of a number of major industrial firms and financial institutions. Among these are Indian Petro-Chemicals Limited, Life Insurance Corporation, Industrial Development Bank of India and State Bank of India.

In 1978 he was given the "Vikram Sarabhai Award" for Systems Analysis and Management. In 1999 he was given the "Visveswaraya Award" by the Engineers' Foundation in Kolhapur. He is also a recipient of "Nayudamma Award" for contribution to the welfare of mankind through developments in the fields of Economics & Energy in February 2005. He was honoured as the most distinguished and illustrious alumni of the decade from India by the Massachusetts Institute of Technology (MIT), USA in September, 2007. He was conferred the Distinguished Alumnus Award by Indian Institute of Technology (IIT), Kharagpur in September, 2007. He was felicitated as one of the engineering personalities by the Indian Engineering Congress, December 2006

In 1997-98, on sabbatical leave from the IGIDR where he was Founder Director from 1986 till 2000, he was Special Economic Adviser to the Administrator, United Nations Development Programme (UNDP), New York. From 1980-86, as Program Leader of the Food and Agricultural Program of the International Institute for Applied Systems Analysis (IIASA), Austria, he directed a research programme involving 300 person years of efforts of more than 100 researchers from around the world. From 1960-80, he was Professor of Economics (and sometimes Head) of the Indian Statistical Institute (ISI), New Delhi. From 1969-71, as Director of Program Analysis Group (PAG), Department of Atomic Energy (DAE), Government of India, he set up PAG to provide economic, operation research and management advice to different units of the DAE. From 1964-67 he was a Research Associate at the Center for International Studies, MIT.

Dr. Parikh had been the editor of "India Development Report" which provides a non-governmental assessment of India's development and policy options

Plenary Session1: Materials Security for Efficient Make in India

MR. NITIN DESAI



He has had a long and distinguished career in the Government of India and the United Nations. He has also worked for some time in private industry and taught at two UK Universities.

In the Government of India Mr. Desai worked at senior levels in the Planning Commission from 1973 to 1987. From 1988 to 1990 Mr. Desai was the Chief Economic Adviser and Secretary in the Department of Economic Affairs in the Ministry of Finance.

Mr. Desai joined the United Nations in 1990 as Deputy Secretary General of the Rio Earth Summit and was Under Secretary General from 1993 to 2003 dealing with economic and social affairs. Mr. Desai's international involvement has been most prominent in the development and promotion of sustainable development as the goal of policy, first as Senior Adviser and key draftsman for "Our Common Future", the Report of the Brundtland Commission on Environment and Development and then as Deputy Secretary-General for the Rio Earth Summit, the manager of the Commission on Sustainable Development for its first decade and as the Secretary General for the Johannesburg Summit. He was also responsible for the organisation of the Copenhagen Summit on Social Development, the Monterrey Summit on Finance for Development and many other global events. After his retirement from the UN Mr. Desai continued to remain a Special Adviser to the UN Secretary General for Internet governance and chaired the Advisory Group that organizes the annual UN Internet Governance Forum till December 2010.

He chaired a Committee on Venture Capital and Technology Innovation set up by the Planning Commission in 2005-06 and the Advisory Panel on Transparency Standards set up by the Reserve Bank of India in 2007-08. He is also the Indian co-chair with Lord Chris Patten of the Indo-UK Roundtable set up by the two governments. He is a member of the Council on Climate Change chaired by the Prime Minister and was a member of the National Security Advisory Board 2008-10. He is also a member of the News Broadcasting Standards Authority. He is an Honorary Fellow of the London School of Economics and Political Science, UK. In India he is a Distinguished Visiting Fellow at the Energy and Resources Institute (TERI) and Honorary Professor at the Indian Council for Research in International Economic Relations (ICRIER). He is connected with the governing bodies of several NGOs and research institutions including the Institute of Economic Growth whose Governing Body he chairs. He is a trustee of Worldwide Fund for Nature (WWF) International. He writes a monthly column for the Business Standard, an Indian daily.

HENRIETTE FAERGEMANN



She is Environment, Climate and Energy Counsellor in the European Union Delegation to India based in New Delhi. She is responsible for cooperation between the EU and India in these areas and in the area of Urbanisation and Smart Cities. Amongst others Ms Faergemann has created the India-EU Water Partnership, The India Resource Efficiency Initiative, the India-EU Clean Energy & Climate Partnership, including initiatives to support offshore wind, energy efficiency, smart grids and the solar parks programme. Prior to joining the EU Delegation Ms Faergemann was working in the European Commission in Brussels since 1998: From 1998-1999 Ms Faergemann was working as a Member of Cabinet for Environment Commissioner Ritt Bjerregaard. From 1999- 2008 she was working in the European Commission's Directorate for Environment, responsible for cooperation with new EU Member States, preparing them for accession to the EU by developing and implementing EU Environmental Law and by developing their administrative capacity. From 2008 to 2014 Ms. Faergemann was Team Leader responsible for inter-alia water scarcity & droughts, water & agriculture, water efficiency, adaptation to climate change and water innovation in the Unit responsible for protection of water resources within Directorate General for the Environment of the European Commission. Ms Faergemann is Master of Science in Chemical and Environmental engineering from the Technical University of Copenhagen.

ANIRBAN GHOSH



Anirban has worked with the USD 19 billion Mahindra Group since 1999 where he is currently the Group's Chief Sustainability Officer. He leads the strategy and implementation of the Group's sustainability drive. He has shaped Mahindra's award winning sustainability framework and has been acknowledged as "Distinguished Chief Sustainability Officer" Anirban has held roles in Sales, Marketing and Strategy in Mahindra's farm business and has been the President of Mahindra USA. He has created strategies leading to Mahindra becoming the largest tractor company in the world and expanding beyond farm equipment into the entire agricultural value chain. He has also led an impactful project in which the income of 20,000 rural Indians more than doubled in 5 years. Anirban has served on the committees of many Industry Associations in India and USA, including the Board of the Association of Equipment Manufacturers, USA. He has been a guest lecturer at business schools in India and enjoys music, travelling, cricket and tennis.

CESARE SACCANI

Cesare Saccani is:

- **ICMQ India:** Managing Director and legal Representative (since 2008)
- **Indo Italian Chamber of Commerce:** Vice President
- **Fagioli India:** Non Executive Director

He started his career at Bocconi University and he is having 20 years of managerial experience.

He started his career at Lombardy Foreign Trade Centre in the role of “Quality and Innovation manager”.

From 1995 to 2001 he has been working in the role of Chief Operation Officer in the SoGePar group (owned by Prince Borromeo Arese family group), largest Stainless Steel Service centre in Europe (3 plants in Italy, 2 in UK, 1 in Belgium), in charge of quality, health and safety, organization and information system.

In 2001 he joined Anysteel Group, an e-commerce portal of metal products.

In 2007 he joined ICMQ spa to prepare the business plan of a newco to be established in India.

Since 2008 he has been coordinating the start up process of ICMQ India, subsidiary of ICMQ Spa, Italian certification, inspection and training body providing services in the construction and infrastructure field.

He has large experience in Total Quality Management and Business Excellence and he is EFQM (European Foundation for Quality Management) Assessor and Faculty.

He conducted more than 50 assessment based on the EFQM Excellence model.

From 1997 to 2007 he Chaired the Lombardy Excellence Award in Lombardy for Small and Medium companies promoted by Regione Lombardia and Unioncamere.

He published books in Italy

He is frequently invited as Lecturer and Key Note speaker in international conferences.

He is experienced in supporting Government and Authorities in setting rules and framework in the field of quality and sustainability.

He is qualified in Italy as “Independent Director” of listed companies.

He published a Discussion Paper focused on “Policies for improving quality in infrastructure” in India.

Plenary Session 2: Energy Security for All

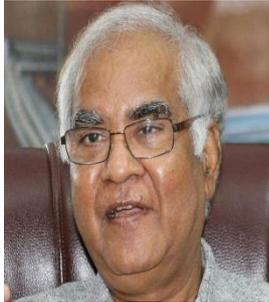
DR. ANIL KAKODKAR



(Born on 11th November, 1943) joined the Bhabha Atomic Research Centre (BARC) in 1964, following the one year post graduate Training with top rank in Nuclear Science and Technology in the then Atomic Energy Establishment. He became the Director of BARC in the year 1996 and was the Chairman, Atomic Energy Commission and Secretary to the Government of India, Department of Atomic Energy, during the years 2000 -2009. He was DAE Homi Bhabha Chair Professor during Jan. 2010-Jan. 2015 and INAE Satish Dhawan Chair of Engineering Eminence during Jan. 2015 to Jan. 2017. Kakodkar obtained his BE (Mech. Engineering) degree from the Bombay University in 1963 and M.Sc. in the Experimental Stress Analysis from the Nottingham University in 1969.

Kakodkar has worked for the development of the atomic energy programme in India throughout his professional life. Focus of his work has been on self-reliant development of nuclear reactor systems to address the Indian programme requirements. Undeterred by the restrictions imposed by the international community, he succeeded in developing various systems for the pressurized heavy water reactor, in building the Dhruva reactor starting from the conceptual stage, in rehabilitation of Madras Atomic Power Station Units 1&2 both of which at one stage appeared to be on the verge of being written off following failure of the moderator inlet manifolds, in conceptualization and development of Advanced Heavy Water Reactor that realizes the next generation objectives through innovative configuration of present day technologies besides use of thorium and such other technology systems. Utilisation of our vast Thorium resources for energy production has received special attention under Kakodkar's leadership. He has created a roadmap for shaping the third stage of India's nuclear power programme aimed at tapping vast energy potential of our thorium resources not only as source for electricity production but also as a primary source for other forms of energy use. A number of new technology areas such as accelerator driven systems, high temperature reactors, materials and recycle technology etc. have been nucleated for this purpose. Kakodkar continues to be actively involved in programmes related to augmentation of Thorium utilisation in our nuclear power programme and for development of non-fossil primary energy sources for meeting our overall energy needs. Kakodkar has been a key contributor to India's strategic programme. He was amongst the chosen few involved in the first successful Peaceful Nuclear Explosion Experiment that India conducted on May 18, 1974 at Pokhran. And later, he played a key role in the series of successful Nuclear Tests conducted during May 1998, again at Pokhran. India also demonstrated nuclear submarine powerpack technology under Kakodkar's leadership.

DR. BALDEV RAJ



Pursuits of Prof Baldev Raj in basic science and applications with multi and interdisciplinary approaches and teams have found expressions of merit in materials science and technologies, cultural heritage, medical technologies and policies. He has provided unique interpretations and solutions to challenges in energy, water, healthcare, manufacturing and national strategic unsolvables in a large measure, with clear impact, distinctions and awards. He is acclaimed for his contributions to Science and Technology of measurements and Sodium Fast Reactors and Associated Fuel Cycle.

Prof Baldev Raj is known for overcoming the barriers of academic research and industry with acumens of leadership and experiences. His work on non-destructive evaluation, different aspects of materials (welding corrosion, mechanics), nuclear systems science and technology, ferrofluids and sensors has earned for him to be among the national and world leaders by virtue of his 1300 plus publications, 80 plus books, 100 plus articles in encyclopedia and handbooks, technologies, patents, standards, etc.

Prof Baldev Raj has been selected for eminent positions, as evidenced by awards, fellowships of all the four academies of Sciences and Engineering in the country, International Nuclear Energy Academy, Institute of Directors, Indian Academy of Social Sciences, Academy of NDT International, American Society of Metals, German Academy of Science, The World Academy of Sciences etc. etc.. He is Honorary Fellow of International Medical Sciences Academy, Indian Institute of Metals, Indian Society of NDT, Indian Institute of Welding International Committee on NDT etc. With invitations for about 500 plenary, keynote, invited speeches; Chairs and Members of some of the most eminent Committees, Councils and Bodies in the country and more than 30 countries worldwide, he has steered several large high impact collaborative programmes with almost all important countries in the world. His contributions to science policy and science diplomacy are recognized worldwide. He has been honored with Homi Bhabha Gold Medal; H K Firodia Award; Om Prakash Bhasin Award; Vasvik Award, National Metallurgist Award; Lifetime Achievement Award of Indian Nuclear Society, Distinguished Material Scientist Award; Padma Shri; Distinguished Alumni of Indian Institute of Science, among many other distinct honors.

Prof Baldev Raj has a passion for interacting with students and young professionals for mutual inspirations and service to society.

DR. RAHUL TONGIA



He is a Fellow with Brookings India in New Delhi, and his work focuses on technology and policy, especially for sustainable development. He leads the energy and sustainability group at Brookings India, and also is active in broader issues of technology. Tongia's work spans the entire gamut of electricity, with focuses on supply options including renewable energy (covering finance, grid integration, etc.); smart grids, which use innovative information and communications technology to improve management of the electric utility grid; issues of access and quality; and

broader issues of reforms and regulations, including electricity pricing. He is also an Adjunct Professor at Carnegie Mellon University, and was the founding technical advisor for the Government of India's Smart Grid Task Force.

DR. O.S. SASTRY



Dr. O.S. Sastry obtained his Doctor of Philosophy (Ph.D.) in physics from India's most prominent Thin Film Laboratory, Department of Physics from the prestigious Indian Institute of Technology, Delhi. During the initial period of his career, he joined Defense Research Development Organization (DRDO) at Visakhapatnam. In 1989 he joined the Ministry of New and Renewable Energy, Government of India as a senior scientific officer, and involved in countries` Solar Energy Programme execution. During 1992 he joined Solar Energy Center (SEC) as in-charge of National Photovoltaic Test Facility. He is responsible for design, establishment and accreditation of the photo voltaic test facility (PVTF) of SEC as per IS 17025, quality system of NABL. He is also responsible for setting, development and up-gradation of additional test centers for PV module and systems testing across the country. He has also established SPV modules outdoor test beds for long term performance evaluation of different PV technologies at SEC. As a part of long term performance of PV modules he also executed joint collaborative projects with NREL, USA and AIST Japan. He is an accomplished technical expert for technical auditing testing laboratories for PV modules and systems. He is also the technical member of the BISET-28 committee for development of Indian SPV standards. At present he is reviewing the IEC standards with view to modify them to be suitable to Indian conditions. Dr. Sastry is responsible for all testing and certification activities in Solar Photovoltaics in the country. He is Project Leader from SEC in STAPP project, and is responsible for WP1 (Power and Energy Management) and WP6 (Performance and Potential). As a part of this he is establishing comprehensive test beds for long term performance, monitoring, evaluation and analysis for different technology PV modules.

RAHUL GOSWAMI



Rahul Goswami is the founder and Managing Director of Greenstone. Prior to Greenstone, Rahul worked in New York with Ewing Bemiss & Co. advising on capital formation for solar and wind companies in North America. Rahul has over 10 years of experience in renewable energy financing and has closed over 40 transactions representing more than \$8bn of capital commitments. He has experience with leading developers including NextEra, EDF, Duke Energy, Terra-Gen Power, GE, Aditya Birla Group, SunEdison, NRG and FirstSolar.

Rahul holds a B.S. in Economics from the Wharton School at the University of Pennsylvania with a concentration in Finance.

DR. ANAND B. RAO



Anand B. Rao is an Associate Professor at the Centre for Technology Alternatives for Rural Areas (CTARA) at the Indian Institute of Technology (IIT) Bombay, Mumbai. He teaches courses related to Energy, Environment and Climate Policy at CTARA, at IDP in Climate Studies and at the Department of Energy Science and Engineering at IIT Bombay. Anand received his Ph.D. from the Department of Engineering and Public Policy at Carnegie Mellon University, Pittsburgh, USA, focusing on the technoeconomic and environmental aspects of carbon capture systems for power plants. His post-doctoral research, also at Carnegie Mellon University, was in the area of oxyfuel combustion and a comparative assessment of different carbon capture technologies. He

holds a master's degree (M.Tech.) in Environmental Science and Engineering and a bachelor's degree (B.Tech.) in Chemical Engineering, both from the Indian Institute of Technology Bombay.

His areas of research interest include Energy and Environment, Climate Change, Sustainable Development, Technology Assessment, Carbon Capture and Sequestration, Bioenergy, and Clean Development Mechanism. His energy research is focused on understanding the barriers and problems in

deployment and adoption of "green(er) energy solutions". Some of the field research projects include the following: "Demonstration and assessment of economic viability of new energy efficient and less polluting brick-making technology (Vertical shaft brick kiln – VSBK) in tribal block of Konkan region in western Maharashtra", "Role of Socio-economic and Behavioral Factors in the Success (or failure) of Community-based Biogas Plants in Rural India", "Supply chain analysis of biomass fuels", "A Decision Support System for Off Grid PV System Design Based on AHP Analysis", "Engineering Analysis of Clamp Type Brick Kilns in Karad Area".

DR. HARI SHARAN

Dr. Hari Sharan is currently the Chairman of DESI Power, Decentralized Energy Systems (India), the President of Dasag Energy Engineering Ltd., Switzerland and also the Chairman of Netpro Renewable Energy (India) Ltd. Dr. Sharan has a wide career spanning over 50 years in power engineering which includes the positions of Director (Engineering and R&D) and Member, Board of Directors of BHEL (India), and of National Thermal Power Corporation, member and numerous other bodies. His area of focus now is in renewable and sustainable energy technologies with special emphasis on the needs of developing countries and rural areas. Dr. Sharan has been recognized by several awards including the International Nuclear-Free Futures Award in 1998, the Life-time Achievement Award by the Solar Energy Society of India, and the Unisun International Renewable Energy Personality of the Year in 2000.

Plenary Session 3: Equitable access to India's Natural Resources- Water and Terrestrial Ecosystem for All

LT. GEN. ARUN KUMAR SAHNI PVSM,UYSM,SM,VSM Former Army Commander Indian Army



Lt. Gen. Arun Kumar Sahni is a decorated, scholar – soldier, with 40 years of commissioned service in the Indian Army. In his last assignment, tenanted the second highest rank of the army, he was the General Officer Commanding-in-Chief of one of the six operational commands of the Indian Army.

He has an unenviable record of being a high achiever throughout his career, starting with the 'Sword of Honour' and President's Gold medal on commissioning to the Army, in 1976. Among several awards for his exceptional leadership skills and courage, he has been decorated with the Uttam Yudh Seva Medal, by the President of India, which is the second highest medal for peace time gallantry. On Republic Day this year, he was conferred the coveted Param Vishist Seva Medal, by the President of India, for sustained meritorious service.

During his long service in addition to his Command assignments of leading military formations, his important staff appointments include 'Chief Operations Officer' of an Infantry Brigade in Sri Lanka as part of Indian Peace Keeping Force (IPKF), Colonel General Staff responsible for operations of a Counter Insurgency Force in Jammu & Kashmir, 'Principal Staff officer' at Army Headquarters, Delhi, responsible for force structuring, identification of weapons and equipment required for capacity building, training, cyber security and operation preparedness of the Indian Army and 'Director General Information Technology' where he had to harmonize perspective plans for digitization and steered network enablement for the Indian Army. He has represented the country as a military delegate, at UN Headquarters at Geneva, trained with the British Army and represented the country as a military diplomat for three years at Embassy of India, Moscow, Russia.

At this point in his life, he aspires to contribute meaningfully to all levels of society through experience sharing and formal interface at the operational, directional and strategic level with all kinds of organizations. He is mentoring start-ups and new initiatives that are in the domain of Information Security, Cyber and HR Management. He is an active participant with various think tanks within the country on a wide range of subjects, with specific reference to National Security Issues – External and Internal, International and Regional dynamics impacting India, Technological issues related to 'Technological Sovereignty, Cyber, Force Multipliers and surveillance, Nuances of Counter Terrorist Operation in the North East and J&K, Dynamics of Integration of North Eastern States including contours of Conflict Resolution, Strategic and Visionary Leadership skills/nuances and Impact of Tactical Nuclear Weapons on South Asian Deterrence Dynamics.

He is an accomplished polo player and has represented the country at Jordan and Dubai, including being a probable for the Indian Tent Pegging Team for Asian Games, in 1982. He still is an active polo player and avid golfer.

DR. ANISH ANDHERIA



He heads the Wildlife Conservation Trust, a non-profit organization set up to preserve, protect and conserve wildlife and fight climate change. He is also a Consultant with Sanctuary Asia and has been awarded the prestigious Carl Zeiss Conservation Award 2008. He is a Fellow of LEAD, an international leadership program on environment and development spread across 80 countries. He helped set up Kids for Tigers, a nation-wide conservation education programme which currently reaches out to over one million school children every year. After completing his Ph.D. from Institute of Chemical Technology, Mumbai, he went on to pursue a Masters Degree in Wildlife Biology and Conservation from National Center for Biological Sciences, Bangalore. He is a large carnivore specialist with field knowledge on predator-prey relationships. A wildlife photographer of repute, he has photographed some of the most remote wildlife reserves of India. He has also co-authored two books on Indian wildlife. He runs a wildlife rescue center in Mumbai for over two decades and is a Trustee of both 'The Climate Project, India' and 'Conservation Wildlands Trust'. A natural communicator, he is one of India's leading motivational speakers, and has introduced thousands of young persons to the joys of nature and the rationale for nature conservation.

PANKAJ PACHAURI



Pankaj is an Indian TV anchor and journalist. He is the founder and editor-in-chief of GoNews, India's first app based TV News channel. GoNews is first of its kind effort to present TV News on mobile handsets.[2] GoNews is available on Google Playstore and Apple Appstore. Pachauri was associated with NDTV for 15 years. He was also associated with other international media houses including the BBC, India Today, The Sunday Observer and the Patriot newspaper. He has more than 30 years of experience in print and broadcast journalism. He is a commerce graduate from St. John's College, Agra and studied journalism at Lal Bahadur Shastri Institute of Communication in Lucknow.[citation needed] He has worked for 7 years in print media, 6 years in radio and 16 years in television broadcasting in Hindi and English. He has been a member of the National Integration Council

MANSI PARIKH



Works with the business team to design business plans and build partnerships. She adds her expertise in marketing, entrepreneurship and business model design to the team. Passionate about development she hopes to add a human centered design perspective to the organizations business model.



PROF. S. PARASURAMAN

Prof. S. Parasuraman has over 25 years of experience as a teacher, trainer, activist, administrator and development worker. Prof. Parasuraman enjoys working in challenging social, political and physical environments. He has always liked to be part of a larger team and has the rare ability to work in a multi-cultural and multidisciplinary team.

Prof. Parasuraman has held the following positions during his career: • Director (Vice-Chancellor), Tata Institute of Social Sciences (2004 to date) • Senior Advisor to the United Nations Human Rights Commission, UNESCAP, Bangkok, Thailand (responsible for auditing all specialised UN organisations have been programming development work in rights framework in countries in Asia region) • Asia Regional Policy Director, ActionAid International, Asia Regional Office, Bangkok, Thailand (January 2001- June 2004) • Team Leader of the Secretariat and Senior Advisor to the Commission, World Commission on Dams (Employee of World Bank and IUCN: September 1998 - December 2000) • Programme Director, Oxfam GB, India Programme, New Delhi (October 1995- December 1997) • Professor and Head of Unit for Rural Studies, TISS (1993-1998), TISS • Reader in Social Sciences, TISS, (198-1992) • Visiting Senior Fellow, Institute of Social Studies (ISS, TheHague) • Lecturer, Unit for Child & Youth Research, TISS (198-1986)

Plenary Session 4: Price volatility of Resources- a challenge: Towards minimizing and mitigating the price volatility of essential commodities

MR. SANJIV PAUL

Mr. Sanjiv Paul graduated in Metallurgical Engineering and joined Tata Steel in 1986 as a Graduate Trainee. He started his career at the Steel Melting Shops where he worked in various capacities till 1998. After completion of a Senior Management program at Cedep, France, Mr. Paul moved on to assume leadership roles in areas of General Management in Tata Steel.

He assumed the position of General Manager (Town Services) in January 2003 and under his leadership, the Town Services Division became an independent company by the name of Jamshedpur Utilities & Services Company (JUSCO) which he headed as Managing Director till March 2010. The Company has expanded its footprint beyond Jamshedpur in the field of urban infrastructure services. Before joining Tata Metaliks in April 2013, Mr. Paul was the Vice President (Corporate Services) of Tata Steel.

He is Chairman of FICCI Sports Committee, Vice President of Archery Association of India and Member of the Board of Governors of the National Institute Foundry & Forge Technology.

He is an avid Reader, keen Cricketer and Golfer.

PERSES BILIMORIA



Perses Bilimoria, was born in Mumbai on September 4th, 1959.

He completed his education at the Cathedral and John Connon High School, in Bombay and thereafter his Bachelor of Commerce, with honours, at Bombay University.

He is the founder and chief executive officer of Earthsoul India Private Limited India's first compostable and biodegradable product manufacturer.

He was a member of the committee of experts on plastics in waste management, constituted by the Ministry of Environment and Forests, New Delhi and sits on the standards committee for the Bureau of Indian Standards with special reference to biopolymers from renewable resources in India. He was also a member of the Environment Committee of FICCI and member of the steering committee on waste management for CII. He is the pioneer of the bio-polymer movement in India as is founder president of the proposed bio-degradable polymer Association of India.

He was CEO of the family owned, Cobra Beer and launched the brand in India in 2002, till its sale to Molson Coors in 2009. Under his leadership Cobra was brewed and sold in 15 states of India. He has recently been appointed as an advisory committee member, of the international Biochar Initiative, headquartered in Washington DC.

He is a member of the Club of Rome- Indian Chapter.

BITTU SAHGAL



Bittu Sahgal, an Environmental activist and writer, is the founding editor of Sanctuary Asia, India's premier wildlife and ecology magazine. He is a member of the National Board for Wildlife of the Ministry of Environment and Forests. He is additionally at the forefront of the battle to protect India from the worst impacts of climate change.

He founded Sanctuary Asia in 1981 at the suggestion of Fateh Singh Rathore who told him "Start a wildlife magazine. So that city people learn to appreciate wildlife and do less damage!". He founded Cub Magazine, which is now edited by his daughter, Tara Sahgal. He has authored numerous books on wildlife including, most recently: India Naturally, The Bandhavgarh Inheritance, The Sundarbans Inheritance, The Bharatpur Inheritance, The Kaziranga Inheritance, The Corbett Inheritance and The Periyar Inheritance. He writes for both English and local language newspapers and magazines in India. He has produced over 30 conservation-related documentaries. He contributes regularly to Bittu Sahgal's Blog where he expounds on topical environmental issues.

PROF RAMPRASAD SENGPUTA

Prof Ramprasad Sengputa is an Emeritus Professor of Economics Jawaharlal Nehru University, New Delhi. He is currently a Mahatma Gandhi National Fellow of ICSSR, being affiliated with Centre for Studies in Social Sciences, Calcutta. He is a former advisor to the Planning Commission, Government of India. He is also a former Professor of Economics at the Indian Institute of Management, Calcutta. He has had stints as a visiting professor/scholar at universities in India, USA, Canada, Germany, The Netherlands and Japan. He has also been an Independent Director on the Board of Steel Authority of India Limited (SAIL).

Plenary Session 5: Importance of Natural Resource Efficiency in Corporate Education and Curriculum

PROF AMITA BHIDE

Professor , Mumbai campus , Dean - School of Habitat Studies



Dr. Amita Bhide is currently Professor and Dean, School of Habitat Studies, Tata Institute of Social Sciences. She has been teaching and researching at the Institute for over twenty years. She has been deeply involved in issues of urban poverty, livelihoods and advocacy linked to the same in Mumbai and in other cities in India. She has contributed to social movements and to various committees of the state government on the subjects of housing and poverty. She directs the 'Transforming M ward' project- an effort of TISS to transform the deeply debilitating living conditions in M(East) ward of Mumbai and to promote a model of sustainable urban development.

Professor Bhide's recent work at the School of Habitat Studies has been on urban governance reforms, housing and land issues with a focus on small and medium towns and urban violence. Her recent publications include 'The Regularising State', 'Comparing Informalities' and 'Colonising the Slum'.

AMAR NATH

Programme Officer, CEE Urban Programmes, Amar has been with CEE for about 15 years
His Education and Training includes:

- SIDA's International Training on Environment Management in Urban Areas at Sweden
- PG Diploma in Health, Safety and Environment
- M.Sc. in Environmental Sciences
- 5 Credit Course in Sustainable Development
- B.Sc. in Environment and Water Management

Some of the work he has been involved with is:

- Knowledge Management for Groundwater in Pune Watershed, 2017
- Advocacy for Road Safety in Maharashtra, 2017
- Comprehensive Master Bicycle Plan for Pune City, 2016-17
- Promotion and outreach programme for BRT and NMT in Pune and Pimpri-Chinchwad Cities, 2014-16
- Facilitation of SUM Net a network of NGOs for policy advocacy at national level, 2010-17
- Managing "Srushti Mitra Awards" programme, for Environment Dept, Govt of Maharashtra, 2010-16
- Green Teacher Diploma – a distance learning course in EE
- Leading evaluation and assessment of climate change mitigation and adaptation projects on urban issues for Earth Care Awards, 2010-17
- Public Consultations for MP State Action Plan for Climate Change, 2011
- Development of mobile exhibition buses for education in Maharashtra for MPCB, 2011
- Internship programme and courses for youth and college students on urban issues
- Development of Indradhanushya: Centre for Citizenship and Environment Education for PMC on Pune's urban environment
- Course on Environment & Development for MSc Environment Science, University of Pune (UoP)
- Faculty Orientation Programme for teaching of Environment in UG courses, UoP
- Air Quality Management (AQM) education programme for Pune, for PMC and US AEP
- Public Consultations for policy inputs for Green India Mission of NAPCC and Bt Brinjal
- Regional Center of Expertise (RCE) promoted by United Nations University on sustainable urban development in Pune
- Developed tool for Participation Budgeting in Pune
- Rapid assessment of slum rehabilitation projects in Pune

DR. CHANDRAKANT PURI

Rajiv Gandhi Centre for Contemporary Studies, University of Mumbai.

After completing M. A. in Social Work from Tata Institute of Social Sciences, Mumbai, he started working as a full time Professional Social Worker with primitive tribal communities in the Raigad district of Maharashtra in the year 1992-93 where he implemented various developmental projects including the Self-Help Housing project which was nominated for the World Habitat Award in 1995.

The entire project completely transformed 2 tribal hamlets. Dr. Puri was also a field instructor for M.A. in Social Work students of TISS.

Dr. Puri shifted to Mumbai to coordinate the Baseline Socio-Economic & Plain Table Survey of 8000 project affected families under the Mumbai Urban Transport Project-II. This study was sponsored by the World Bank (1995-97). As coordinator of SIDDHI, an NGO, Dr. Puri was also a part of the Task Force appointed by the Government of Maharashtra for framing of Rehabilitation and Resettlement Policy. In the year 1997, he joined the SNDT Women's University as Asstt. Director – Social Sciences where he developed course material for social science subjects and converted the same into Self-Learning Material Format for distance learners. He became the Director of the Centre in 2006 where he developed many new professional programs which increased the revenue by double. He continued his work with tribal communities through his PhD work.

His commitment and passion of working with socially excluded communities lead him establish the Centre for Study of Social Exclusion & Inclusive Policy at SNDT Women's University where he worked as its Founder Professor cum Director (2009 to 2013). He developed new courses such as MA in Social Exclusion & Inclusive Policy Studies, P G Diploma in NGO Management focusing on the field work intervention. He also started PhD. in Social Exclusion & Inclusive Policy Studies, which was the first of its kind in India. He continues field action and research with most communities such as Tribal and Nomadic and De-notified Tribes in Maharashtra. Dr. Puri was nominated for the Rajiv Gandhi Chair in Contemporary Studies at the University of Mumbai which he joined in February 2013 where he has conducted several policy and field action research, organized a number of public-policy dialogues, seminars, conferences and workshop on the theme of contemporary social issues. His present areas of work include among other- Democratic Decentralization and Development, Panchayati Raj, Development of De-notified and Nomadic Tribes, Tribal Development and Social Exclusion and Inclusive Policy. Being a head of this inter-disciplinary social science research centre he has been conducting workshops for young researchers.

He is the recipient of several awards / fellowships which include prestigious Asiatic Post Doctoral Fellowship for research on 'National Draft Policy of Tribals'. His work with prisoners of Ratnagiri Special Prison resulted in Mumbai University awarding him the Gold Medal in the year 1989-90. He is also the recipient of 'Young Professional of Commonwealth of Learning Award & Internship' by the Commonwealth of Learning, Canada for the year 1999. He is the recipient of 'Karmaveer Puraskar' by Confederation of Indian NGOs for Lifelong Fight for Social Justice through Citizen Action. He is the recipient of Pandit Rahul Sankrutyayan Puraskar of 2014 for his contribution in Social Research which was conferred on him by Boudh Sahitya Parishad in Latur. He has travelled worldwide to present his research and work. He has worked on several academic committees / advisory committees/ selection committees.

Dr. Puri is author of 3 books and has published over 50 research articles/papers. Several PhD. students are working under his guidance in the subject of Social Work, Social Exclusion and Inclusion and Contemporary Studies. He has conducted 15 research projects till date which are sponsored by the Government, Non-Government and International agencies.

Dr. Puri has been actively involved in organizing and uniting Nomadic Tribes and De-notified Tribes in Maharashtra and is one of the founders and Advisors to National DNT Forum. He has been recently appointed as a member of Expert Committee on DNT by the National Commission on NT/DNT/SNT, Government of India. Known a public speaker, he has delivered more than 500 public lectures, keynote address, inaugural addresses. Has conducted a number of training and capacity building

programs for various stakeholders. Dr Puri is a folk singer and heads Research and Training wing of Akhil Bhartiya Marathi Shahir Parishad.

DR. KUMANDURI CHARI

He was invited by the Asian Productivity Organisation (APO) Tokyo, Japan as Resource person for the Multicountry Observational Study Mission on Green Energy Technologies. The event was organised during 15th to 19th September 2014 at Taipei, Taiwan (ROC). A total of fifteen asian countries participated in the event and deliberated upon the latest developments in Green Energy Technologies. Many innovative concepts about alternative energy sources were discussed. December 16th to 19th 2014, was invited by the UNEP as a resource person in a conference titled "Global Knowledge Dissemination Workshop on Waste Agricultural Biomass to Energy and Solid Waste Management". A total of 25 countries covering Latin America, Africa, USA and Asia participated in the event. My article titled " Waste Oils/Lubricants: A Gold Mine" published in "Industrial Angles" of February 2016 issue.

Was invited as a panelist on the 7th International Forum on Solid Waste held at Porto Alegre, Brazil during 15th to 17th June 2016. One member each from the BRICS countries was in the opening panel.

Made a presentation of the "Political, legal and technical framework for solid waste management in the BRICS countries: India"

DR. ANINDITA ROY SAHA

Dr. Anindita Roy Saha is an Associate Professor at the Department of Economics and the Head of the Department of Environmental Studies, Indraprastha College for Women, University of Delhi. She is the Coordinator of the Centre for Earth Studies at IP College, a research centre with the objective of undertaking interdisciplinary initiative for environmental protection and sustainable development. She also heads the Internal Quality Assurance Cell of the college.

She is a visiting faculty at the Department of Environmental Studies, University of Delhi, where she teaches Environmental Economics and Resource Economics.

Dr. Saha has studied at Jadavpur University, Kolkata and Jawaharlal Nehru University, New Delhi. She obtained her Ph. D degree from JNU in the area of Energy Economics. Her area of specialization evolved from Development Economics and matured to the Economics of Energy, Environment and Resources.

She has been associated with the University of Delhi, JNU, University of Delhi South Campus, Nalanda University and Amity University in various capacities, such as, teaching, research supervision and examination.

She has published in national and international journals and participated in many international and national level conferences.

Plenary Session 6: Circular Economy and Material Recycling (secondary raw material use) - business scope towards material security



RENÉ VAN BERKEL

René VAN BERKEL (PhD) is UNIDO Representative and heads the Regional Office of the United Nations Industrial Development Organization (UNIDO) in India, which also covers Afghanistan, Bangladesh, Bhutan, Maldives, Nepal and Sri Lanka.

René has 28 years professional experience in resource efficiency and cleaner production (RECP), industrial productivity, sustainability and innovation, with extensive international experience in Europe, Australia and Asia, covering a variety of manufacturing and related sectors.

From 2008 to 2017 he was leading the UNIDO RECP programme in Indonesia and at global level. During 2006-2008 he was an independent international consultant and from 1999-2006 he was Professor of Cleaner Production at Curtin University of Technology in Perth Australia. From 1989 – 1999 he served in different applied research roles at the University of Amsterdam.

Dr Van Berkel is a Dutch national with a PhD in Environmental Science from the University of Amsterdam.

MR. MUKESH GULATI



Mr. Mukesh Gulati is a Post Graduate in Management from Indian Institute of Management, Lucknow and graduate in engineering from National Institute of Technology. He has coordinated a number of projects on behalf of the United Nations Industrial Development Organisation (UNIDO) for 12 years on cluster based SME development. He has also represented UNIDO on several international forums and conducted a range of training programmes for policy makers from more than a dozen developing countries. During his career of 26 years, he has authored several books and publications in the area of SME development. Having served FMC as the

Executive Director for 10 years, he has now taken up the position of Senior Advisor and Executive Trustee at FMC.

INDRANI MALKANI



Indrani Malkani Managing Trustee, V Citizens Action Network (VCAN) | Ashoka Fellow Beginning her career with the Taj Group of Hotels, she rose to become the Conventions and Conference Manager of The Taj Palace Convention Hotel, Delhi. She coordinated various National and International Conventions, before moving to Mumbai. Her specialty at work was in Logistics, Co-ordination and Troubleshooting, developing what was commonly known as “people skills”- an expertise which remains one of her major strengths in the work she does even today. In Mumbai, she has involved herself in civic matters and community issues, particularly contentious ones, where her belief has been to develop sustainable solutions in partnership with the Authorities. Among the organizations she works with are the Municipal Corporation of Greater Mumbai (MCGM), Mumbai Police, various State Government departments and the Election Commission of India and State Election Commission of Maharashtra. She founded the ALM of Little Gibbs Roads in Malabar Hill (Local residents group working in partnership with the Mumbai Municipality). This ALM was instrumental in starting the Pilot Project of MCGM’s “Integrated Relay Transport System of Segregated Waste Collection”. The success of this project prompted MCGM to take forward this system and execute it in other areas of Mumbai. In January 2013 she was invited to be a Member of the Statutory Technical Advisory Committee on Solid Waste Management, MCGM. She founded the ALM of Little Gibbs Roads in Malabar Hill (Local residents group working in partnership with the Mumbai Municipality). This ALM was instrumental in starting the Pilot Project of MCGM’s “Integrated Relay Transport System of Segregated Waste Collection”. The success of this project prompted MCGM to take forward this system and execute it in other areas of Mumbai. One of her more successful projects was to conceptualize and implement the Model School Bus Service, for the safe and secure transportation of school children. This safe and efficient system was accepted as a model on which the State of Maharashtra has based its Policy of Transportation of School Children.

MR. ASHISHKUMAR CHAUHAN



Shri Ashishkumar Chauhan is the MD & CEO of BSE (Bombay Stock Exchange), the first stock exchange of Asia. He is one of the founders of India's National Stock Exchange ("NSE") where he worked from 1992 to 2000. He is best known as the father of modern financial derivatives in India due to his work at NSE. He was instrumental in setting up India's first fully automated screen based trading system and first commercial satellite communications network. He also created several path breaking frameworks including Nifty index, NSE certifications in financial markets etc.

From 2000 to 2009, he worked as the President and Chief Information Officer of Reliance group and was also the CEO of the cricket team Mumbai Indians in its formative years. He also handled additional responsibilities as the Head, Corporate Communications for Reliance Group from 2005 – 2006.

He joined BSE as Deputy CEO in 2009 and was appointed as CEO in 2012. He is credited with reviving BSE including making it the fastest Exchange in the World with less than 6 microseconds response time, introduction of Mobile Trading first time in India, state of the art online real time surveillance system, introduction of several market leading products like SME, Currencies, Mutual Funds, Corporate Bonds distribution, Offer for Sale, Offer to buy etc. He was also instrumental in setting up India's First International Exchange "India International Exchange", which was inaugurated by the Hon'ble Prime Minister of India Shri Narendra Modi in January 2017 at Gandhinagar, Gift City. He has successfully completed the IPO of BSE which was pending for over 10 years. BSE IPO was oversubscribed 51 times with close to 12 lakh applications in January 2017.

Ashish has won several International and Indian awards including:

Distinguished Fellow, Institute of Directors 2017, New Delhi

Distinguished Alumnus Award 2016 - IIM Calcutta

CEO of the Year, Diamond Sabre Awards 2015, Hong Kong

Indian Business Leader of the Year, Horasis Interlaken/Switzerland 2015

RH Patil Award for Excellence in Financial Services, June 2015

Distinguished Alumnus Award, Indian Institute of Technology, Bombay, 2014

Best CEO in the Financial Markets in the Asia Pacific by the Asian Banker, 2014

Zee Business Awards- Special contribution in Commodities and Capital Market, 2013

TOP 50 CIOs, Information Week, US, 2009 He holds a B Tech in Mechanical Engineering from IIT Bombay and a PGDM from IIM Kolkata. He is a Distinguished Visiting professor at Ryerson University, Toronto, Canada. Due to his work in various fields spanning a quarter of a century, he is considered one of the foremost experts in the fields of Information Technology, Finance, Markets, Micro

structure of markets, cricket, telecommunications, organized retail, Oil & Gas refining and Indian social issues.

He is the Chairperson on the Board of Governors (BoGs) of the National Institute of Technology (NIT) Manipur, member of the Board of Governors at IIM Raipur and an Independent Director of the ICSI Insolvency Professionals Agency, a 100% subsidiary company of The Institute of Company Secretaries of India. He is the Chairman of South Asian Federation of Exchanges (SAFE), a forum of 28 member entities from the SAARC region and neighbouring countries which aims to provide platform to share, exchange and promote the technologies, experiences for the rapid growth and development of capital markets and regional as well as global integration. He is a member of the Advisory Committee of Ministry of Micro Small and Medium Enterprises (MSME). He is an Advisor to the Technical Evaluation Committee set up by the Department of Posts for Postal Bank and also a part of several other committees of World Federation of Exchanges ("WFE"), Government of India ("GOI"), Reserve Bank of India ("RBI"), Securities and Exchange Board of India ("SEBI"), Central Board of Direct Taxes (CBDT), Confederation of Indian Industry ("CII"), Federation of Indian Chambers of Commerce and Industry ("FICCI"), Indian Merchants Chamber ("IMC"), India UK council ("UKIBC") etc. He is also a Member of the Advisory Committee of the proposed Mumbai University School of Economics and Public Policy. He is also associated with several NGOs and education institutions. His quotes and writings have been published in various newspapers, magazines and journals in India and abroad.