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Proposed CAETS 2015 Convocation

INAE, New Delhi – Oct 2015

“Pathways to Sustainability: Energy,
Mobility and Health Care Technologies”

Venue : Ashok Hotel, New Delhi



Objective

Identification of engineering and technology solutions to meet sustainability challenges in Energy, Mobility and Healthcare sectors without damaging the Ecosystem.



Energy Engineering



■ Suggested focus Areas :

- Potential LCE options for large scale deployment.
- Nuclear energy, including fusion – ITER.
- Sustainable Energy Trends and Futures.
- Hybrid Renewable-Non Renewable Energy.
- Hydrogen Energy Systems.
- Bioenergy from cellulose.
- Ocean / Tidal Power / Wave Engineering.
- Nanotechnology facilitation for high efficiency.
- CO₂ capture and sequestration (CCS) (though progress on this has been halted in the aftermath of the 2008 financial crisis).



Mobility Engineering



■ Suggested focus Areas :

- Urban Mobility Trends and Futures.
- Outstanding Mobility Case Studies.
- Outstanding Sustainable Mobility Core Models.
- Integration of Multimodal and Virtual Mobilities.
- Multi-modal logistics.
- Smart Mobility Systems.
- Modeling and Simulation Applications in mobility.



Healthcare Engineering



■ Suggested focus Areas :

- Health Care Trends and Futures.
- Advances in Health care delivery engineering.
- Developing Stronger health care science-engineering interface.
- Information / communication engineering tools.
- Systems Design and Analysis Approaches.
- Advanced Device Manufacturing Technologies.
- Control and Quality Frameworks.
- Modeling and Simulation Platforms for design.



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CAETS - 2015 favors scenario based interactions on engineering and technology solutions for sustainable earth planet given the uncertainties associated with climate change, complex ethical issues, unclear legal interpretations and economics of doing right things vs. economics of managing the degraded earth planet due to wrong policies and engineering.



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INAE invites one nominee each from Member Academies of CAETS to form part of INAE Organizing Committee to facilitate identification of specific presentations, speakers, focus areas, panel discussion etc.



India's Economy



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- The independence-era Indian economy (from 1947 to 1991) was based on a mixed economy combining features of capitalism and socialism.
- In 1991, India adopted liberal and free-market principles and liberalized its economy to international trade, following which; the country's economic growth progressed at a rapid pace, with relatively large increases in per-capita incomes.
- The Indian economy is on a robust growth trajectory and is committed to stable annual growth rate with ethics and equity in diverse and vibrant society.
- The economy of India is the tenth-largest in the world by nominal Gross Domestic Product (GDP) and the third-largest by purchasing power parity (PPP).



India's Economy (contd.)



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- India is one of the G-20 major economies and a member of BRICS, an association of emerging national economies: Brazil, Russia, India, China and South Africa.
- India is a country today which poses enough challenges with opportunities in Energy, Healthcare, Infrastructure, Agriculture.
- India has a largest demographic advantage in the world.
- INAE invites Member Academies of CAETS to participate and explore in these challenges and opportunities.



India as a Cultural Destination

■ Architecture

- Taj Mahal, Agra (one of the world's seven wonders).
- Ajanta and Alora caves.
- Umaid Bhawan Palace in Rajasthan.
- Fatehpur Sikri, Qutab Minar, Red Fort of Delhi depicting Islamic influence.

■ Music

- Indian Classical music (Hindustani & Carnatic)

■ Instrumental Music (Khyal and Ragas)

- Four types of musical instruments – stringed, wind, percussion and bells.

■ Festivals

- Religious festivals and festivals to celebrate change of season or harvesting.
- Dance, music, dazzling attires are integral part of these festivals
- Goa Carnival, Alleppey Boat Race, Bihu Festival reflect the diversity of land.
- Festivals such as Diwali, Raksha Bandhan, Dussehra, Eid etc. celebrated in all parts of country.



India as a Cultural Destination (contd.)

■ Dances

- Bharatnatyam, Kathakali, Kuchipudi, Mohiniyattam, Yakshagana, Odissi, Kathak and Manipuri.

■ Handicrafts

- Famous Handicrafts – Furniture, Jewellery, Metal craft, Painting, Pottery, Stone Textiles, Wood Craft, Floor Coverings.
- Sculpture – Stone and bronze figures.

■ Pilgrimage

- Kedarnath or Badrinath
- Devine Buddha pilgrimages, Bodhgaya and Sarnath visited by Buddhist pilgrims.

■ Heritage

- Monuments and heritage sites depicting flavour of Hinduism, Buddhism, Islam, Jainism and Chistianity.

■ Languages

- 22 officially recognised languages.
- Hindi is official language.
- English is an associate official language.



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Venue – CAETS 2015 Convocation



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Ashok Hotel, New Delhi





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Video Film on
“Incredible India”

Thank you