

**STEVENS INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING**

**Wednesday, June 21, 2006
Carnegie Bldg, Room 315, Time 1:30pm**

Advances in Aerospace Sciences and Technologies-- Indian Scenario

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Aeronautics and Aerospace contribute significantly to the development and progress of a nation. Indigenous design and technology development are key to the success of aeronautical and space programs. India initiated design and development projects for civil and defense applications and launched major space programs. Significant achievements of these programmers have resulted in International participation and cooperation. The talk aims at presenting, among other things, the design concepts, challenges and achievements of some of these projects. A road map for the future initiatives will also be presented.

Dr. R. Balasubramaniam holds a Ph D degree in Aeronautics from the Indian Institute of Science, Bangalore with a specialization in Structural Dynamics and Aeroelasticity. He was a Research Associate at NASA Langley during 1974-76. Since then he has held many senior Research positions at the National Aerospace Laboratories including heading the Structural Sciences Division until his retirement as Director (Research) and Advisor of the Lab in 2003. Dr. Balasubramaniam was India's Scientific Advisor at the Indian Embassy in Germany from 1995 to 2000. Dr. Balasubramaniam contributed in the fields of Aerospace Vibration, Aeroelasticity, Modal Analysis, Finite Element Methods, Composites and Smart Structures. Dr. Balasubramaniam is currently Editor of the Journal of Aerospace Sciences and Technologies, consultant Hindustan Aeronautics, and serving as expert member for Space Organization. He has published over 40 research papers in International Journals, over 60 Conference presentations/publications, and 6 Proceedings/books. Significant among the awards received are National Biren Roy award for outstanding contribution in Aeronautics (1988), Aeronautical Research and Development Board Silver Jubilee Award (1998), and the CSIR-Government of India Award for Technology Development (2002). Dr. Balasubramaniam has guided 5 Ph D and 28 Masters Degree students, and is a Fellow of the Aeronautical Society of INDIA, ISAMPE, Member ASME, AIAA and IUTAM and ASI.