



Indian Institute of Technology Kanpur

INSTITUTE LECTURE SERIES

May 12, 2023 (Friday) | 6.00 pm |

Speaker: Dr. Vivek Lall

Talk Title: The Future of Engineering

About the Speaker



Dr. Vivek Lall is the Chief Executive of General Atomics Global Corporation in San Diego, California. The company produces unmanned aircraft and surveillance systems and operates on five continents. Lall is a United States Technical Team member to the NATO STO and serves on various advisory boards including the International Advisory Group of the US Chamber of Commerce and the Global Board of Directors of the US India Business Council. He was appointed by the US government to a key advisory role in the Department of Transportation in Washington DC in 2018. He has previously worked for Lockheed Martin, Boeing, Raytheon, and NASA Ames Research Center. He holds Masters and Ph.D. in Aerospace Engineering, and has completed management and executive courses at the American Management Association in Washington DC.

In 2022, Dr. Lall was conferred the President's Lifetime Achievement Award by President Joe Biden and was granted the Noble title of "Sir" for his achievements. He is also an Ambassador of the State of Arkansas and a Kentucky Colonel. Cambridge (UK) has listed him as one of only 2000 Outstanding Scientists of the Twentieth Century, and he was President of the Mathematical Association of America. He has authored over a hundred articles in various journals and is a trained private pilot.

Abstract of the Talk

In this talk defense, energy, and space sectors and how innovation is driving engineering progress will be discussed. General Atomics is the world's largest privately owned nuclear and defense company founded in 1955. GA and affiliated companies operate on five continents and include GA Aeronautical Systems, Inc. (GA-ASI). GA-ASI produces a series of unmanned aircraft and provides electro-optical, radar, signals intelligence, and automated airborne surveillance systems. GA's Electromagnetic Systems Division produces electro-magnetic aircraft launch and recovery systems for the US Navy, satellite surveillance, electro-magnetic rail gun, high power laser, hypervelocity projectile, and power conversion systems.

GA is the principal private sector participant in thermonuclear fusion research through its internationally recognized DIII-D and inertial confinement programs for the US Department of Energy. GA developed the University of California San Diego [UCSD] Supercomputer Center and has constructed more than 60 Training Research Isotopes General Atomics [TRIGA] nuclear research reactors in 24 countries. GA is a leader in development of next-generation nuclear fission and high-temperature materials technologies. The talk will describe the various engineering endeavors present and future.



RM-101 (Rajeev Motwani Building)

All are cordially invited to attend

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