

**INAE DELHI LOCAL CHAPTER WEBINAR REPORT ON “LIVIN’ IN A MATERIAL
WORLD: MATERIALS DRIVING THE DATA STORAGE REVOLUTION” ON
OCTOBER 28, 2021**

Talk by: Dr. Siva Sivaram President, Technology and Strategy, Western Digital, USA

Hosted by:

Prof. Rajendra Singh, Professor of Physics, IIT Delhi and
Prof. Swades De, Secretary, INAE Delhi Chapter

Talk Title: Livin’ in a Material World: Materials Driving the Data Storage Revolution
(Thursday, October 28, 2021, 9:30am to 10:30am)

Abstract:

We are in midst of a data revolution, with the amount of data created annually increasing rapidly. Global data consumption has been estimated to hit 175 Zettabytes by 2025. Rotating media HDD and solid-state Flash storage continue to play pivotal roles in the non-volatile data storage ecosystem. Against the backdrop of this unrelenting demand, the industry must continue to deliver innovative, scalable, cost efficient, diverse technologies, with fundamental materials science as a key enabler. In this talk Dr. Sivaram provided an overview of industry dynamics and show how the physical sciences have been at the heart of enabling this continued technology revolution. There were over 90 participants in the webinar.

Brief Bio of the Speaker:

Dr. Siva Sivaram is the President, Technology and Strategy for Western Digital, USA. He previously served as executive vice president, Silicon Technology and Manufacturing, where he led worldwide development of silicon technologies and their high-volume manufacturing across sites around the globe. Dr. Sivaram has over 30 years of experience in semiconductors, 3D memory architectures, process technology, equipment and materials. He has held executive positions at Intel and Matrix Semiconductor, and at SanDisk after its acquisition of Matrix. Additionally, he was the Founder and CEO of Twin Creeks Technologies, a solar panel and equipment company. He is widely published, including a text book on Chemical Vapor Deposition and holds several patents in semiconductor and solar technologies. He serves on the board of the Global Semiconductor Association. Dr. Sivaram earned his doctorate and master’s degrees in materials science from the Rensselaer Polytechnic Institute where he has been elected to its Board of Trustees. He is a Distinguished Alumnus of the National Institute of Technology Trichy, India, where he earned his bachelor’s degree in mechanical engineering.