Indian Institute of Technology Kanpur
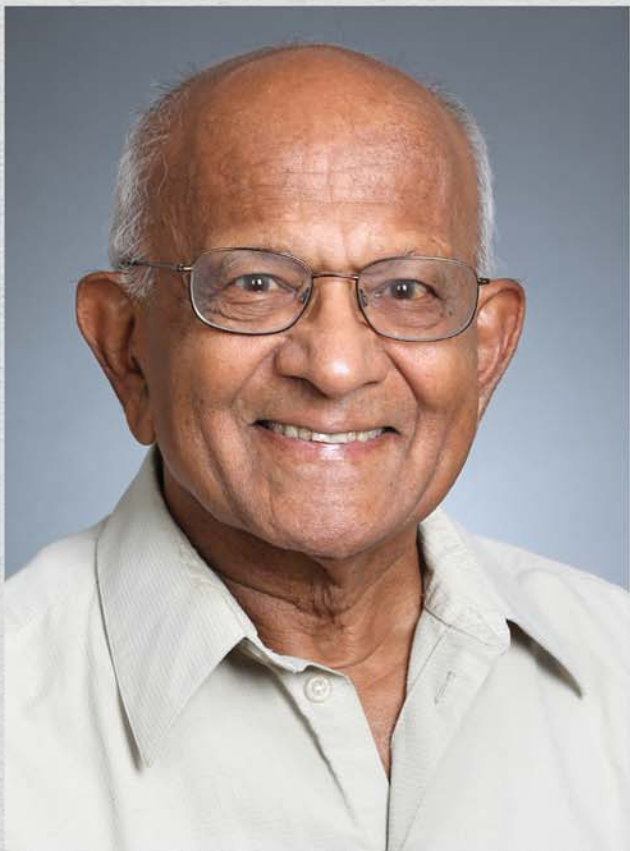
G20
भारत 2023 INDIA

INSTITUTE LECTURE SERIES

October 23, 2023 (Monday) | 6.15 pm | L- 17

Speaker: Mr. Abhay K. Bhushan

Talk Title: The Evolution of Internet

About the Speaker

Abhay Bhushan holds BTech degree in Electrical Engineering from IIT Kanpur in 1965, where he was recognized as the best graduate in Electrical Engineering. He furthered his education with a master's degree in Electrical Engineering from the Massachusetts Institute of Technology (MIT) and then he pursued studies in management at MIT's Sloan School of Management.

Bhushan played a pioneering role in the development of the ARPAnet, which later evolved into the internet. His contributions include chairing the FTP and Mail Working Group for the ARPAnet and authoring early versions of the File Transfer Protocol and Mail standards used on the internet. He is the author of over 20 IETF RFCs that helped shape the internet's foundation. Bhushan has made significant contributions to environmental leadership, helping reduce emissions and waste at Xerox Corporation.

Abhay Bhushan's philanthropic efforts include involvement with organizations like the India Association of Rochester, where he received the AIA Honor Award, and leadership roles within the IIT Kanpur Alumni Association and PanIIT movement. From 2003-2018 he has been a Director, CFO, CEO and Chairman of IIT Kanpur Foundation in USA. In 2006, IIT Kanpur honored him with its Distinguished Alumnus Award.

His commitment to community service, environmental conservation, and the promotion of Indian technology and education has left a lasting impact. Abhay Bhushan resides in Palo Alto, California, and is known for his passion for physical fitness, including cycling, hiking, and completing Ironman triathlons, as well as his love for gardening and reading.

Abstract of the Talk

From its beginnings in the ARPANET in the late 1960's, the Internet has evolved over the last five decades. With the introduction of the Worldwide Web and search engines the Internet expanded rapidly with the dot-com boom and commercial applications. In the early 2000's social media and mobile internet was introduced. In 2010's, highspeed internet, broadband and compression technologies have led to a rapid rise of social media, video streaming and on-demand entertainment, and cloud computing and storage. Online security and privacy concerns have become prominent issues. The future of Internet becomes even more interesting with advances in Artificial Intelligence, machine learning, and virtual reality.

This talk will cover a personal journey as well as companies and people driving the evolution of Internet. Filled with anecdotes, it will touch upon the constraints that influenced the Internet protocol and standards, and the promises and potential dangers of the Internet, and how Internet is changing the world.

All are cordially invited to attend

Office of Dean Research & Development