CSIR-CGCRI Foundation Day and Atma Ram Memorial Lecture 2022

You are cordially invited to join the
***72nd Foundation Day** celebrations through hybrid mode*

on August 26, 2022; 10.30Hrs
at M. N. Saha Auditorium

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Prof. V. Ramgopal Rao

Pillay Chair Professor in Electrical Engineering & Former Director
Indian Institute of Technology Delhi

would grace the occasion as the Chief Guest and deliver the

— 19th Atma Ram Memorial Lecture —

Dr. (Mrs.) Suman Kumari Mishra
Director, CSIR-CGCRI

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ATMA RAM MEMORIAL LECTURE

Dr. Atma Ram, Padma Shri, born in 1908, D.Sc. (1936), from the Allahabad University belonged to the core team for establishment of CSIR. He was also assigned the task to establish an institute of glass and ceramics in Calcutta. He was the Founder Director of the Institute from 1952 till his assuming responsibility of Director General of CSIR in 1966. Later he became the Principal Advisor to the Prime Minister on S&T. He was the first recipient of the Shanti Swarup Bhatnagar Prize and several other awards. As a mark of honour to this great scientific leader, CSIR-CGCRI instituted a memorial lecture series against his name in the year 2000.

About the Speaker: Prof V. Ramgopal Rao completed his M.Tech in micro-electronics from the IIT Bombay and Doctorate in Engineering in nano-electronics from the Universitat der Bundeswehr Munich, Germany. For 18 years he served as faculty at the IIT Bombay, his latest position being the P.K. Kelkar Chair Professor in Electrical Engineering till 2016. During that year he took over as the Director of IIT-Delhi where he served for almost six years. Dr. Rao has over 480 research publications and 49 patents, many of which are commercialized.He is a co-founder of two deep technology startups at IIT Bombay (Nanosniff & Soilsens) which are developing products of relevance to the society.

Dr. Rao is a Fellow of IEEE, a Fellow of the Indian National Academy of Engineering, the Indian Academy of Sciences, the National Academy of Sciences, and the Indian National Science Academy.Prof. Rao's research and leadership contributions have been recognized with over 35 awards and honors in the country and abroad. He is a recipient of three honorary doctorates and the Shanti SwarupBhatnagar Prize in Engineering Sciences, Infosys Prize, IEEE EDS Education Award, Excellence in Research awards from IIT Bombay, DAE and DRDO, Swarnajayanti Fellowship of DST, IBM Faculty Award, Best Research award from the Intel Asia Academic Forum, Techno-Visionary award from the Indian Semiconductor Association, J.C.Bose National Fellowship among many others. Prof. Rao was an Editor for the IEEE Transactions on Electron Devices during 2003-2012 for the CMOS Devices and Technology area and currently serves on the Editorial Advisory Board of ACS Nano Letters, a leading international journal in the area of Nanotechnology. He also serves as an Editor for the IEEE Journal on Flexible Electronics.

Abstract of Talk : India's contribution to the world's R&D is steadily increasing. In certain specialized areas such as Nanotechnology, India is among the top 3 countries in the world in terms of research publications. Despite the low percentage of GDP spending for R&D in India, Indian researchers have excelled in research output, when measured in terms of the number of research publications. Though these are excellent achievements, the situation is entirely different when one looks at the innovation or the product development potential in the country. For example, India ranks very poorly on the Global Innovation Index (GII), and the research undertaken by Indian academic institutions, whether public or private, has hardly resulted in any major technological breakthrough of significant commercial value.

Given this scenario, in order to make the Indian research competitive and sustainable in terms of innovation and product development, a multitude of initiatives are required to be taken at the institutional and national level. In this talk, we will discuss the changing scenario for product innovation in Indian academic and R&D institutions, and also see how one can accelerate the culture of product innovation in the country through a multi-disciplinary approach.

PROGRAMME

10.30–10.35	Invocation by 'Saraswati Vandana'
10.35–10.50	Welcome Address by Dr. (Mrs) S.K. Mishra, Director, CSIR-CGCRI
10.50–10.55	Introduction of Chief Guest by Dr. Somnath Bandyopadhyay, Chief Sct., CSIR-CGCRI
10.55 –11.55	Atma Ram Memorial Lecture entitled "How do we create an Innovation Driven Research Eco-system in India?" by Prof. V. Ramgopal Rao, Pillay Chair Professor and Former Director, IIT-Delhi
11.55–12.00	Felicitation of Chief Guest
12.00–12.15	Presentation of the CSIR-CGCRI Foundation Day Awards 2022
12.15–12.20	Vote of Thanks by Mr. Ashim Kumar Jha, Finance & Accounts Officer, CSIR-CGCRI

NATIONAL ANTHEM

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