

WORKSHOP ON "FRONTIERS IN MATERIALS"

DATE : 14TH AUGUST 2021
TIME : 2:00 PM - 8:00 PM (IST)

Zoom link to join the meet

[https://zoom.us/j/98695004799?](https://zoom.us/j/98695004799?pwd=WEpDUVdlbWp1T1pxOTVQNkJPVnBtUT09)

[pwd=WEpDUVdlbWp1T1pxOTVQNkJPVnBtUT09](https://zoom.us/j/98695004799?pwd=WEpDUVdlbWp1T1pxOTVQNkJPVnBtUT09)

Meeting ID : 986 9500 4799

Passcode : 123582

Registration is free of cost

Organized by

ASM International Chennai Chapter
Material Advantage Student Chapters
(NIT Trichy & SRMIST)

PROGRAMME SCHEDULE

2:30 PM - 3:00 PM (IST): Inaugural Session

Prof. M Kamaraj, Chairman, ASMICC



3:00 PM - 4:00 PM (IST): Lecture 1

Prof. Christopher Berndt, Swinburne University of
Technology, Australia



Topic: Advances in Thermal Spray Coatings and Applications

4:00 PM - 5:00 PM (IST): Lecture 2

Dr. M Sathya Prasad, Ashok Leyland, Chennai



Topic: Materials & Manufacturing for Future Mobility

5:00 PM - 5:30 PM (IST): Break

5:30 PM - 6:30 PM (IST): Lecture 3

Dr. Debashish Bhattacharjee, Tata Steel Ltd., Kolkata



Topic: New Materials for 21st Century

6:30 PM - 7:30 PM (IST): Lecture 4

Prof. Zi-Kui Liu, PennState University, USA



Topic: Designing and Tailoring Frontier Materials Processing
and Properties

7:30 PM - 8:00 PM (IST): Concluding Session

Dr. U Kamachi Mudali, Trustee-Elect, ASM International, USA



Coordinators

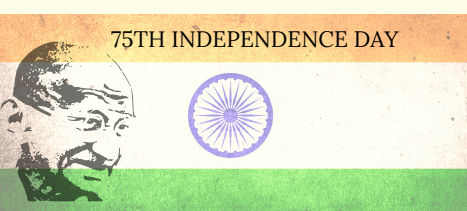
Prof. M Kamaraj, Chairman, ASMICC

Dr. Shushanta Kumar Panigrahi, Joint-Secretary, ASMICC

Dr. Shubrajit Bhaumik, EC, ASMICC

Dr. A Vinoth, Faculty Advisor, Material Advantage, SRM
Institute of Science and Technology, Chennai

Dr. V Karthick, Faculty Advisor, Material Advantage, NIT
Trichy



SPEAKER DETAILS

DR. U. KAMACHI MUDALI

FNAE, FIIM, FNASC., FIICHE, FNACE, FASM, FAPAM, FIE, HFECSI, HMUDCTAA, HMIIM, FASCH, FICS; VICE-CHANCELLOR, VIT BHOPAL UNIVERSITY & HONORARY PROFESSOR OF PRACTICE, IIT MADRAS; FORMERLY, DISTINGUISHED SCIENTIST, DEPARTMENT OF ATOMIC ENERGY; CHAIRMAN & CHIEF EXECUTIVE, HEAVY WATER BOARD (HWB), MUMBAI



Platinum Jubilee Independence Day Special Lecture on “PLATINUM JUBILEE & BEYOND: MATERIALS DEMAND AND ISSUES”

DATE : 15TH AUGUST 2021

TIME : 11:00 AM - 12:30 PM (IST)

Zoom link to join the meet

[https://zoom.us/j/93511483497?](https://zoom.us/j/93511483497?pwd=dEcZG1nTXRIV1BGQIRnSWR6VDNkdz09)

[pwd=dEcZG1nTXRIV1BGQIRnSWR6VDNkdz09](https://zoom.us/j/93511483497?pwd=dEcZG1nTXRIV1BGQIRnSWR6VDNkdz09)

Meeting ID : 935 1148 3497

Passcode : 585628

Registration is free of cost

Organized by
ASM International Chennai Chapter

Abstract: Since independence in 1947 India has steadily progressed in the materials domain, and has made significant production of metals and alloys required for various applications in industry and society. During the last 10 years, the roadmap for the production of new materials and higher production of conventional metals and alloys in both Ferrous and NonFerrous categories has yielded good results, with India making steady competition with global partners. The materials journey upto independence, till Platinum jubilee, and far beyond, is addressed by the speaker in this presentation based on the facts and figures available in public domain.

Biography: Dr. U. Kamachi Mudali has made pioneering contributions to production of heavy water and specialty materials; advanced materials & coating technology development; corrosion science, engineering and technology; materials, process and equipment development for reprocessing applications; failure analysis, consultancy and societal contributions; for 36 years during his service at DAE. Dr Mudali has 465 Journal publications, 5 patents, and 9500 citations with an h-index of 43 and i-10 index of 245. Dr. Mudali has co-edited 20 Books/Proceedings, Associate Editor of Journal of Electrochemical Society of India and Editor-in Chief of IIM-Springer Book Series and CII-Corrosion Management Committee Booklet Series. He has guided/coordinated 162 UG/PG/PhD degree projects of students from various academic institutions. He is recognised in the World's Top 2% scientists from India in the field of Materials, and is a Fellow of 12 professional associations including 3 from abroad, and Honorary Member of Indian Institute of Metals (IIM) and UDCT Alumni Association, Mumbai. Dr. Mudali is decorated with several distinguished recognitions from India and abroad including: Distinguished Alumnus Award from IIT Bombay where he did M.Tech (Corrosion Sci & Engg.) in 1984, and PSG College of Technology, Coimbatore where he did MSc (Materials Science) in 1982, GD Birla Gold Medal and Metallurgists of the Year Award from IIM & GoI, Best Scientist Award from TNSCST, Chennai, MASCOT National Award, Excellence & Meritorious Awards in Corrosion from NACE India and NCCI, Karaikudi, Vasvik Award, Indian Nuclear Society Medal, Homi Bhabha Science and Technology Award of DAE, Outstanding Faculty Award from HBNI University, Frank Newman Speller Award of NACE International, USA, the highest recognition and first Indian to get in the field of corrosion. Dr. Mudali was Visiting Scientist and widely travelled to USA, Germany, Russia, France, UK, Japan, Malaysia, Israel, Bulgaria, Canada, and Singapore. Dr. Mudali was the President of IIM during 2019-2020, and is currently the Trustee Elect of Board of Trustees of ASM International, USA for 2021-2024, and formerly Chairman of ASM International, Chennai Chapter.