

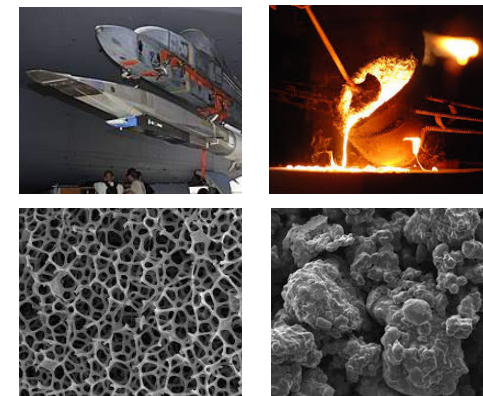
2nd International Conference on
Advances in Minerals, Metals, Materials,
Manufacturing and Modelling-2023

ICAM⁵ - 2023

22-23 September 2023

NIT Warangal

(Selected papers will be published in the
SCI/Scopus indexed Journals)



Organized by



Dept. of Metallurgical and Materials
Engineering
NIT Warangal, TS, India
In association with
IIM Hyderabad Chapter

About NIT Warangal

The National Institute of Technology Warangal, an institute of national importance (formerly known as the Regional Engineering College Warangal) established in the year 1959, is the first among the 31 NITs in the country setup as joint venture of the Government of India and the State Government. The institute offers 8 undergraduate programmes in engineering and 29 postgraduate programmes leading to M.Tech., M.Sc. (Tech.), MCA and MBA degrees. All the departments of the institute conduct research programmes leading to Ph.D. degrees. NIT Warangal is consistently ranked among the top 30 technical institutes in the country. It is located on the Hyderabad- Warangal national highway at a distance of 3 km from Kazipet railway station and 12 km from Warangal railway station. It is spread over 250 acres and is totally residential campus.

About the Department of Metallurgical and Materials Engineering

The Department of Metallurgical and Materials Engineering (MME) was established in the year 1965 and presently offers an undergraduate program in MME and two postgraduate programs with specialization in Industrial Metallurgy and Materials Technology. The department is consistently receiving accreditation by NBA since past several years for its excellent academic and research activities. The department has experienced faculty and well-established laboratories with state-of-the-art facilities in various areas of research. The department also offers PhD programme in MME and presently about 37 scholars are working in key research areas. The department is also in collaborative research with organizations such as DMRL, ARCI, IGCAR, BARC, BHEL etc. Presently the department is engaged with research projects received from DAE-BRNS, DRDO-NRB, ARDB, SERB, AUSC Mission Directorate, etc.

About Warangal City

Warangal is about 135 km from Hyderabad, the capital of Telangana. It is well connected by rail and road. It is well known as an educational centre. Once, the capital of the great Kakatiya Kingdom and earlier known as Orugallu or Ekasilanagaram, Warangal still retains its importance as the cultural centre of the Telangana. It finds an important place in the tourist map of Telangana with sites of archaeological significance like the Warangal fort, Thousand Pillars temple, Bhadrakali temple and Ramappa temple. The three lakes namely Ramappa, Pakhal and Laknavaram and the wild life sanctuaries at Tadwai and Pakhal are famous for sightseeing.

Tourist attractions nearby

Thousandpillar temple	7 km from
Badrakalitemple	9 km from NITW
Lakhnavaramlake	70 km from Warangal
Ramappa Temple	70 km from Warangal
KaleshwaramTemple	120 km from Warangal

Organizing committee:

Patron

Prof. N. V. Ramana Rao, Director, NITW

Chairman

Prof. Mahesh Kumar Talari, Head, MMED

Convener

Prof. G. V. S. Nageswara Rao

Co-Convener

Dr. G. Brahma Raju

Organising Secretaries

Prof. C Vanitha

Dr. Varam Sreedevi

Dr. Sukla Mondol

Members

Prof. N. Narasaiah

Prof. Asit Kumar Khanra

Dr. Nagumothu Kishore Babu

Dr. B. Srinivasa Rao

Dr. Ajoy Kumar Pandey

Dr. R. Arockia Kumar

Dr. V. Rangadhara Chary

Dr. Uma Maheswara Rao Seelam

Address for correspondence

The Convener

ICAM5

Metallurgical and Materials Engineering Department

National Institute of Technology, Warangal

Warangal- 506 004, Telangana State, India

Mobile : +91 8106933877 (preferably after 6 pm)

+91 9866310178

E-mail: icam5@nitw.ac.in

Web Address: <http://cms.nitw.ac.in/conference/icam2023/>

About the conference

The International Conference on Advances in Minerals, Metals, Materials, Manufacturing and Modelling – 2023 (ICAM⁵-2023) is being organized by the department as a part of institute's mission. The very purpose of the conference is to provide a platform for the academicians, scholars, researchers and industry personnel from all around the globe to discuss and disseminate the knowledge created in minerals processing, materials development, materials degradation and computational materials modelling. ICAM⁵ is structured around several thematically focused sessions during which participants present their work and discuss the advances and challenges in these thematic areas. Several world-renowned experts from the thematic areas have already confirmed to share their years of knowledge and wisdom during the plenary and keynote lectures sessions with the participants during ICAM⁵. The organizing committee also encourages those who are not presenting their work, also to benefit from the discussions and networking opportunities offered by ICAM⁵.

Thematic areas

ICAM⁵ welcomes research papers on the following topics but not limited to:

Advances in mineral processing
Advances in iron and steel making
Special steels and alloys
High-temperature materials
Nanomaterials and nanostructured materials
Corrosion and oxidation
Creep, fatigue and creep-fatigue interaction
Surface engineering
Powder metallurgy
Advances in manufacturing
Advances in aerospace materials
Thermomechanical processing
Welding/Joining
Advanced ceramics/Composites/Polymers
Additive manufacturing
Light alloys/Energy materials/Bio-materials
Computational materials science/Process modelling

Advisory committee

Prof. C.Suryanarayana, University of Central Florida.
Prof. Manoj Gupta, NUS Singapore.
Prof. Ramana G. Reddy, University of Alabama, USA.
Sri A. V. Shesagiri Rao, Consultant Metallurgist.

Prof. Jean-Loup STRUDEL, MINES ParisTech.Centre des Matériaux ,France.
Prof. Petr Šittner, Institute of Physics of the CAS, Czech Republic.
Prof. Kamanio Chattopadhyay, IISc Bangalore.
Dr. Prakash Srirangam, University of Warwick, UK.
Dr. Khalid Rafi, ASTM, Singapore.
Prof. B.S. Murty, Director, IIT Hyderabad.
Dr. G. Madhusudhan Reddy, Director, DMRL.
Dr. Tata Narasinga Rao, Director, ARCI.
Dr. Sanjay Kumar Jha, Chairman & Managing, Director, MIDHANI.
Dr. Laura Silvestroni, ISSMC ITALY.
Prof. K. Bhanu Sankara Rao, IIT Hyderabad.
Prof. Koteswararao V.Rajulapati, University of Hyderabad.
Prof. Dr.-Ing. V.V.S.S.Srikanth, University of Hyderabad.
Dr. H. Sepehri Amin, NIMS,Japan.
Prof. Sushil Mishra, IIT Bombay.

Call for abstracts

Authors are invited to submit an abstract of original, unpublished work not exceeding 300 words. The abstract format can be downloaded from the conference website. The abstract must be submitted through conference website on or before 30.06.2023

Proceedings

After peer review, acceptance of the abstract will be intimated to the participants. Upon the notification of acceptance, authors need to complete the registration along with the fee payment on or before 10.07.2023. Selected full papers from registered participants will be published in the conference proceedings/SCOPUS/SCI indexed journals.

Awards

A number of awards are awaiting! In each session, the best presenter will be honoured with cash prize and certificate. The best paper presentation award will be conferred on the selected author(s) of papers presented at the conference.

Sponsorship

Various opportunities of sponsorship are available in ICAM⁵. The tariffs of each category of sponsorship and the benefits are displayed in website. The prospective sponsors are requested to contact the organizers.

Metallography contest

Metallography contest is organized for students/scholars where black and white/color micrographs displaying interesting microstructures obtained using optical/electron microscopes. The selected micrographs will be awarded cash prize. However, participant should be a registered delegate of the conference. Further details can be obtained from the conference website.

Accommodation and Travel

The expenses towards travel and accommodation shall be borne by the participants. Accommodation can be arranged on payment basis in the hotels. The details of the hotels and the tariff will be provided in the conference website. A limited number of participants can be accommodated in the institute Visitors' Block which can be allotted on first-cum-first basis on payment.

How to reach?

Nearby airport:

Rajiv Gandhi International airport, Hyderabad (3h from Warangal)

Nearby railway station:

Kazipet (KZJ) 2 km from NIT, Warangal

Warangal (WL) 12 km from NIT, Warangal

CATEGORY	Early bird registration slip upto to 30 July 2023	Regular
	Indians (INR)	Indians (INR)
Faculty/Research Scholars/PG students	5000	6000
R&D/Industry Participants	8000	10000
UG Students	2000	3000
Accompanying persons	3000	4000
Listener(not presenting paper)	3000	4000
Delegates from Abroad	(USD) 250\$	(USD) 300\$

The registered participants receive conference kit, proceedings, admission to all technical sessions, lunch and dinners during the conference. Registration fee may be remitted through online/NEFT to the below mentioned bank account.

Account name	Convener icam5 2023
Account No.	41522446730
Bank	STATE BANK OF INDIA
Branch code	20149
IFSC	SBIN0020149
MICR code	506002030

Important dates:

Abstract submission : 30-06-2023
Notification of acceptance : 10-07-2023
Full paper submission : 15-08-2023 (no extension)
Early bird registration : 31-07-2023

Confirmed speakers list:

Confirmed Speakers list will be updated from time to time on the conference website.