




GRIET/6C/G/20-21

EVENT SUMMARY REPORT

Griet/Other institutes/Organization Address:	Gokaraju Rangaraju Institute of Engineering and Technology, Bachupally, Hyderabad in association with NITTTR Chandigarh				
Department	Mechanical Engineering	Professional Body		Institutional Body	
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	Conference				
Title / Theme of the Event	12th International Conference on Materials Processing and Characterization				
Details of the Coordinator & Designation	Dr. Swadesh Kumar Singh, Professor, Department of Mechanical Engineering, Hyderabad.				
Event Dates/Days	From	To	No. of Days		
	06/10/2020	09/10/2020	04		
Details of the Speaker / Guest Organization Address:	Details of the speaker has been attached separately				
Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No. of PG Students	No. of outside participants	Total Participants
	15	Nil	5	230	250
Faculty Names & Designation	List of the participants has been attached separately				

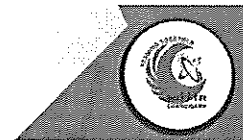
Summary of the Event	12th International Conference on Materials Processing and Characterization (ICMPC) has been conducted in association with GRIET and GLA University Mathura from 06 th to 09 th Oct, 2021, at NITTTR Chandigarh . This program has been conducted for three (4) days in which a total of Eleven (11) Keynote Address and Twenty (20) parallel sessions has been conducted.
IRG (in rupees) Deposited A/C no A/C name and date and other details (enclose proof-A/C statement)	Nil
Expenditure (in rupees) (Enclose proof-bills)	Nil
POs attained with this Event (number and description)	Seven (7) POs has been attained with this event <ol style="list-style-type: none"> 1. Ability to analyze problem and interpret the data. 2. Ability to design a system component, or process to meet desired needs in Mechanical Engineering within realistic constraints. 3. Ability to identify, formulate, analyze and interpret data to solve Mechanical Engineering problems. 4. Ability to understand the impact of engineering solutions in a global, economic and societal context. 5. Ability to understand the effect of Mechanical Engineering solutions on environment and to demonstrate the need for sustainable development. 6. Ability to understand professional and ethical responsibility. 7. Ability to demonstrate the management principles in Mechanical Engineering projects.
Photographs of the event (Hard copy and Soft copy)	



12TH INTERNATIONAL CONFERENCE ON

Materials Processing and Characterization

© NITTR Chandigarh 6th-9th October 2021



Program Schedule

Chief Guest: Prof. R.P. Dahiya, former Professor Indian Institute of Technology Delhi former Director of Malaviya National Institute of Technology Jaipur former Vice chancellor of Deenbandhu Chhotu Ram University of Science and Technology, Murthal (Sonapat)

Meeting link for Inauguration, Keynotes and Valedictory

<https://us02web.zoom.us/j/89770286615?pwd=dGUvbCt6N3oyU0NhRktnVzNvOFp3dz09>

Meeting ID: 897 7028 6615

Pwd: 123456

Meeting ID for Help Desk

Meeting ID: 503 772 9973

Pwd: radha

Timings for Help Desk

06 Oct, 2021 08:00 a.m to 01:00 p.m

07 Oct, 2021 01:00 p.m to 05:00 p.m

08 Oct, 2021 01:00 p.m to 04:00 p.m

09 Oct, 2021 01:00 p.m to 03:00 p.m

October 06, 2021

Day 1

Programme	Time
Inaugural function	09:30a.m - 10:15a.m
KeyNote Address-1 Speaker: Prof. K. Narasimhan Professor, IIT Bombay. Topic: Development of FE based model for ring rolling simulation. Host: Dr. Eswar, IIT Indore	10:15a.m – 11:05a.m
KeyNoteAddress-2 Speaker: J Ramkumar Professor, IIT Kanpur. Topic: Wire ECM for Micro Nano Application. Host: Dr. Eswar, IIT Indore	11:00a.m – 12:00p.m
KeyNoteAddress-3 Speaker: Prof. Janaki Ram G. D Professor, IIT Hyderabad. Topic: Alloy development for Additive manufacturing Host: Dr. Eswar, IIT Indore	12:00p.m – 01:00 p.m
Lunch Break	01:00p.m – 02:00p.m
SESSIONS	02:00p.m – 05:00p.m

October 07, 2021
Day 2

Programme	Time
SESSIONS	09:00a.m – 12:00p.m
Lunch Break	12:00p.m – 01:00p.m
KeyNote Address-4 Speaker: Dr. Fernando Fraternali Professor, Department of Civil Engg, University of Salerno, 84084 Fisciano (SA), Italy. Topic: Host: Dr. Rupender, NITTTR Chandigarh	01:00p.m – 02:15p.m
KeyNote Address-5 Speaker: Dr. Sujan Debnath Associate Professor, Department of Mechanical Engg, Curtain University, Malaysia. Topic: Natural Fiber Polymer Composites in Research. Host: Dr. Rupender, NITTTR Chandigarh	02:30p.m – 03:45p.m
TeaBreak	03:45p.m – 04:00p.m
KeyNoteAddress-6 Speaker: Dr. Muhammad P. Jahan Associate Professor and Graduate Program Director, Department of Mechanical and Manufacturing Engineering, Miami University, USA. Topic: Sustainable post-processing of 3D printed parts - A case study for CFRP composites and future prospects Host: Dr. Rupender, NITTTR Chandigarh	04:00p.m – 05:00p.m

October 08, 2021
Day 3

Programme	Time
SESSIONS	09:00a.m. – 12:00p.m
Lunch Break	12:00p.m – 01:00p.m
KeyNote Address-7 Speaker: Prof. Khalid Moinuddin Professor, Fire Modelling, Victoria University Topic: Fire Properties of Combustible Materials for Simulation. Host: Dr. Diptikanta Das, KIIT, Bhubaneswar, Odisha.	01:00p.m – 02:00p.m
KeyNote Address-8 Speaker: Dr. Sikiru O. Isaiml Senior Lecturer, Manufacturing Engineering and Materials, School of Physics, University of Hertfordshire, England, United Kingdom. Topic: Conventional and Ultrasonically-Assisted Machinability of Biocomposite Laminates: A Comparative Investigation Host: Dr. Ravi Shankar, IIT Tirupati.	02:00p.m – 03:00p.m

KeyNote Address-9 Speaker: Prof. Chetan Nikhare Associate Professor, Pennsylvania State University. Topic: Springback analysis in sheet material discontinuity and influence of tool rollers Host: Dr. Diptikanta Das, KIIT, Bhubaneswar, Odisha.	03:00p.m – 04:00p.m
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October 09, 2021

Day 4

Programme	Time
SESSIONS	09:00a.m. – 12:00p.m
Lunch Break	12:00p.m – 01:00p.m
KeyNote Address-10 Speaker: Dr. Deshdeep Sahdev Former Professor of Physics IIT Kanpur, India. Topic: Indigenous Instrumentation and Computational Packages for Cutting-Edge Research in Materials Science. Host: Prof Purohit, NIT Bhopal	01:00p.m – 02:00p.m
KeyNote Address-11 Speaker: Dr. Aloke Kanjilal Professor, Department of Physics, School of Natural Sciences, Shiv Nadar University, India Topic: Challenges and Opportunities of Nano-materials in Futuristic Devices. Host: Prof Purohit, NIT Bhopal	02:00p.m – 03:00p.m
Tea Break	03:00p.m – 03:15p.m
Valedictory function	03.15p.m – 04.30p.m

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Dr. Swadesh Kumar Singh, Professor, GRIET Hyderabad, India.

GUEST EDITORS

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Dr. Mohammed S. J. Hashmi, Emeritus Professor, Dublin City University, Ireland.
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TREASURER

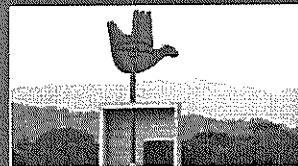
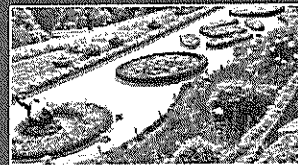
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ABOUT CHANDIGARH

Chandigarh is bordered by the state of Punjab to the north, the west and the south, and by the state of Haryana to the east. It is considered to be a part of the Chandigarh Capital Region or Greater Chandigarh, which includes Chandigarh, and the city of Ferozepur (in Haryana), and cities of Jalandhar, Ludhiana, Mohali, and Amritsar (in Punjab). It is located 260 km (162 miles) north of New Delhi and 229 km (143 miles) southeast of Amritsar.



ACCOMMODATION

Hotel/Guest Houses in Chandigarh provide a range of services that add memorable experience for visitors. Participants are requested to make their own arrangement for travel, boarding and lodging. However, accommodation facility could be arranged on request in advance in nearby hotels/Guest houses.

TRAVEL

BY RAIL/ROAD: An extensive rail network links Chandigarh to different corners of the country. The railway station is only 8 km from the city centre. Important Indian Railways Express and the International Coaches run on a daily basis to cities like Delhi, Bhubaneswar and Mumbai. From Chandigarh to Lucknow, there are two direct rail services. The city is also well served by the roads. Buses, Chartered cars, etc. are available. In some cases, there are no direct roads and one may have to take a connecting road.

BY AIR: Reaching Chandigarh by air is the fastest and cheapest mode. The airport is located at a distance of nearly 14 km from the city centre and is easily accessible. It is served by all the Indian domestic airlines, like Indian Airlines and Jet Airways, which fly to major cities of the country like Delhi, Mumbai, Kolkata, etc. International travellers may take the flight to Delhi or Amritsar and then take a connecting flight or travel via road or rail to Chandigarh.

ABOUT ORGANIZING INSTITUTE

In realization of the need for training better quality technicians to meet the large scale industrialization of the country, the Ministry of Human Resource Development (the then Ministry of Education), Government of India established four Regional Technical Teachers' Training Institutes (now National Institute of Technical Teachers Training & Research, NITTTR) at Bhopal, Chandigarh, Chennai and Kolkata in 1967. The Institute at Chandigarh is one of these four NITTTRs, started in collaboration with Royal Netherlands Government (upto 1974). It was designed to meet the requirements of developing polytechnic education in the northern region covering the states of Jammu and Kashmir, Himachal Pradesh, Punjab, Haryana, Rajasthan, Uttar Pradesh, Uttarakhand, Delhi and Union Territory of Chandigarh. The Institute is registered under the Societies Registration Act, 1860 and is managed by a Board of Governors.

The Institute started with long term teachers' training programmes for polytechnic teachers in 1967 and was also entrusted with the responsibility of promoting curriculum development work for the states in the region. To improve the competence of teachers for implementing new curricula designed by this Institute, short term courses have been offered since 1967. The Institute established a Media Centre in 1981 for preparing print & non-print instructional materials.

CONTACT US

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12th INTERNATIONAL CONFERENCE ON MATERIALS PROCESSING AND CHARACTERIZATION

@ NITTTR CHANDIGARH

6th - 9th October, 2021

ICMPC-2021 CONVENERS

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ABOUT CONFERENCE

Functional materials, smart materials, intelligent materials – whatever you call them, they will be a key pillar of 21st century technology. Among the modern structural materials there has been a tremendous advancement in science and technology of materials. In recent years, nanostructure materials and nano composites have become increasingly important because of their remarkable properties and permanently growing areas for practical applications. Various aspects of mechanical properties of nano materials including analytical and computational modelling in combination with comprehensive experimental analysis of mechanical behaviour is yet to be investigated. In spite of the rapid progress in this field, mechanical properties of nano materials and composites are still remaining terra incognita in materials science. In the field of massive and complex manufacturing we are now in need of materials, with properties, that can be manipulated according to our needs.

Large spaceplanes like the Space Shuttle would have proven extremely difficult, if not impossible, to build without heat-resistant ceramic tiles to protect them during re-entry. And high-speed forward-swept-wing airplanes like Grumman's experimental X-29 or the Russian Sukhoi S-27 Berkut would not have been possible without the development of composite materials to keep their wings from bending out of shape. Nature is full of magic materials, which are to be discovered in forms suitable to our needs. Such magical materials, also known as intelligent or smart materials, can sense, process, stimulate and actuate a response.

There is an increasing awareness of the benefits to be derived from the development and exploitation of advanced materials and structures in applications ranging from hydrospace to aerospace. With the ability to respond autonomously to changes in their environment, smart systems can offer a simplified approach to the control of various material and system characteristics. Mechanistic understanding from any discipline is the routes to the development of materials with capabilities beyond those currently available.

SCOPE OF CONFERENCE

The role of manufacturing in the country's economy and societal development has long been established through their wealth creation activities. To deepen and broaden our knowledge of materials and to increase innovation and responsiveness to ever-increasing international needs, more in-depth studies of functionally graded materials/ tailor-made materials are needed at present. The objective of this conference is to bring together experts from academic institutions, industries and research organizations and professional engineers for sharing of knowledge, expertise and experience in the emerging trends related to advanced materials processing, and characterization.

The conference is structured as follows: plenary lectures followed by parallel sessions. The plenary lectures will be delivered by eminent personalities of international repute to introduce the theme of the conference. Each parallel session starts with an invited talk on specific topic followed by contributed papers. Papers are invited from the prospective authors from industries, academic institutions and R&D organizations and from professional engineers.

CONFERENCE TOPICS

Material Characterization (Room and at Elevated Temperatures)
High strain rate deformation of Materials
Bio-materials
Advanced machining processes
Advanced metal forming, bending, welding & casting techniques
Alternate materials /material substitution
Applications FEA
Composite and Polymer Manufacturing
Composites, Intermetallics
Fabrication Process of Nano materials and Nano devices
Functionally Graded Materials
Future generation materials
Heat Treatment
High-Energy Beam Processing
High-speed and Hybrid Machining
Laser Based Manufacturing
Material Testing
MEMS Integration
Meta materials
Metallography
Multi-Physics Coupling Simulation and Optimization
Nano materials
Non-destructive Examination
Numerical Modelling and Simulation
Optimization Techniques
Powder Metallurgy and Ceramic Forming
Recycling and re-manufacturing of Materials and Components
SMART materials
Super Alloys
Thermally-Enhanced Processes and Materials

REGISTRATION

It is essential that at least one of the author of the accepted papers and register to participate in the conference, for including the papers in the special issue of the journal. Registration can be done by mailing the complete registration form along with the fee after receiving the acceptance of the paper.

	Advanced Materials and Processing Technologies (Taylor and Francis)		E3S		Lecture Notes in Mechanical (Springer)	
Indexing	SCOPUS, ESCI		SCOPUS, WEB of SCIENCE		SCOPUS	
Registration fee	Rs. 15000 Indian Delegates	\$250 Foreign Delegates	Rs. 8500 Indian Delegates	\$150 Foreign Delegates	Rs. 8500 Indian Delegates	\$150 Foreign Delegates
Last date for submission	31-05-2021		25-08-2021		25-09-2021	
Last Date of Registration	01-10-2021 (once the Acceptance mail received from the corresponding publisher)					

Your registration includes Concurrent/Sessions of technical program, Welcome Breakfast, Morning and Afternoon Refreshment Breaks, and Lunch at the conference venue, Paper Presentation, Attendance to all sessions, Conference bag, Certificate of Presentation, Complimentary city tour.

The registration fee shall be paid through crossed demand draft, drawn in favour of "NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH - ICMPC" or by way of electronic money transfer to 127-128, Sector 17 C, Chandigarh Branch, Account No. 659105601055 (Swift code: ICICINBBNRI, IFSC code: ICIC0006591)

For any queries keep in touch with www.icmpc.com

EXHIBITION CUM SPONSORSHIP

An exhibition will be organized concurrently with the conference. The industries who are interested in showcasing their products, equipment may contact the conference chairs. Two delegates sponsored by the exhibitors are allowed to participate in the conference without any extra fee.

Agencies are invited for being co-sponsors of the conference. Delegates will be allowed to attend the conference if any agency supports the conference financially. For future details visit our website.