

**International Virtual  
Conference on  
“Frontiers in Manufacturing Technology”  
(FMT 2020)**

**13<sup>th</sup> - 14<sup>th</sup> October, 2020**



***Organised by***

**Department of Physics, School of Applied Sciences,  
Kalinga Institute of Industrial Technology (KIIT)**

**Deemed to be University**

**(An Institution of Eminence)**

**Bhubaneswar-751024, Odisha**

## ABOUT FMT 2020:

International Virtual Conference on “Frontiers in Manufacturing Technology” (FMT 2020) is going to be held on October 13-14, 2020, organized by Department of Physics, School of Applied Sciences, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, Institute of Eminence (IOE), 1st in Atal Ranking of Institutions on Innovation Achievements (ARIIA) among self-financing institutions. The “Frontiers in Manufacturing Technology” (FMT 2020) is the key forum to present, share and discuss issues, challenges and developments across various manufacturing technology with different disciplines of materials research to an interdisciplinary and international audience. It provides a window on the future of materials and next generation science, and offers an opportunity for researchers, postdoctorates, faculty members, and industry Micro, Small & Medium Enterprises (MSME), start-up, and entrepreneur envision a vibrant MSME sector by promoting growth and development of the MSME Sector to exchange technical information.

## OBJECTIVE:

The “Frontiers in Manufacturing Technology” (FMT 2020) prides itself on being the premier promoter of the research and study of manufacturing materials in the world. As part of our numerous academic programs and projects, we help budding scientist, researchers, Industry start-up, and entrepreneur to present their research findings and papers at our scientific forum. We are also promoting the Atmanirbhar Bharat (Self-reliant India) where the entrepreneur are involved in new technology.

## MISSION:

Atmanirbhar Bharat (Self-reliant India) with ZERO DEFECT ZERO EFFECT. To drive manufacturing with adoption of Zero Defect production processes without impacting the environment (Zero Effect). To encourage MSMEs and startup to constantly upgrade their quality standards in products and processes to new frontiers of manufacturing technology.

## TOPICS:

The conference topics cover, but are not limited to the following:

1. Additive Manufacturing
2. Welding and Joining Technology
3. Metal Casting & Forming.
4. Powder Metallurgy
5. Nano Materials
6. Iron & Steel
7. Ceramic
8. Thin Films
9. Bio-materials
10. Green Materials (Environment Friendly)
11. Surface Engineering / Coatings
12. Laser and Laser Processing
13. Composite Materials
14. Manufacturing technology to aid Agriculture & Farming
15. Materials and Manufacturing for Defense Industry
16. Artificial Intelligence in Manufacturing Technology
17. Industry 4.0
18. Computer Aided Design & Manufacturing
19. Optical, Electronic and Magnet Materials
20. Mechanical Behavior & Fracture Analysis
21. Energy Storage
22. Sustainable development
23. ZERO DEFECT ZERO EFFECT

## Submission Of Abstract

The extended abstract should not be more than TWO A4 sized pages with margin 0.5" on Top, Right and Bottom and 1.0" margin on Left. Additional sub sections may be added as required. Please use single space between paragraphs. Textual references should be in this format

[1]. Please include references from the internet as complete links with title of the webpage

[2]. Abstracts submitted using the Templates available in the given link will only be accepted. Abstract MUST be submitted ONLY in Microsoft Word format and in the format provided.

## Abstract Templet Link:

<https://drive.google.com/file/d/1PQL0i2WTCyjQH7owwEvxNaYmhyRfNcGQ/view?usp=sharing>

Registration and abstract submission will be done through online only.

<https://forms.gle/8yxGJJBvBrU9Vinx9>

## Proceeding:

E-proceeding of the abstracts will be given to the participants during the conference.

## Young Entrepreneur Award:

In FMT 2020, **Young Entrepreneur Award** to recognize the STARTUP as well ENTREPRENEUR, SME for various industrial applications as well as scientific contribution in this pandemic situation of COVID 19, making outstanding contribution for betterment of society, and creation of new job opportunity for the Unreach to the Reach people and overall steps taken to make contribution to promoting the Atmanirbhar Bharat (Self-reliant India) where the entrepreneur are involved in new **indigenously developed technology**.

It is also essential to make, **Atmanirbhar Bharat (Self-reliant India) with ZERO DEFECT ZERO EFFECT. To drive** manufacturing with adoption of **Zero Defect** production processes which has **Zero** adverse environmental and ecological **Effect**.

For more information and application, see the eligibility criteria.

## The eligibility criteria are stated as follows:

1. The topic of the paper /work must be related to any topic listed in **FMT 2020**.
2. The candidate must be either the corresponding author or the first author of the paper ( word file abstract one page)
3. The competition is open for **Young Start-up, Entrepreneur, Small Scale Industry and innovator**.
4. The papers will be evaluated by an interdisciplinary committee.
5. The deadline of the submission of Young Entrepreneur Award is **October 5, 2020**.
6. Applications will be selected by the Evaluation Committee according to originality, significance and rigour of the the work in the respective field.
7. The YOUNG ENTREPRENEUR AWARD 2020 will be announced in valedictory session on **October 14, 2020**.
8. The candidates must submit a soft copy of their ((a) Abstract (one page) (b) CV with recent passport size photograph, Name, address, profile of the startup or any other innovator, entrepreneur (c) brief summary of work done/ or continuing maximum FIVE page A4 size only, including documentation of the work done in this Pandemic Covid 19, (d) Work for Unreach to Reach people, Contribution to make self sustainable, (e) Creating job opportunity, indigenously developed technology for larger employment, and Atmanirbhar Bharat, (f) problems and suggestive solutions. The all documents with single file of soft copy should be sent through BELOW

## AWARD LINK:

<https://docs.google.com/forms/d/1g7l0Gc3wu2i1shpELcLp6JMOTYkNIXo0loMUFjjDo7l/edit?usp=sharing>

## Award Application Form Templet:

[https://drive.google.com/file/d/1yJOlsGy4MVI\\_-utzGIKnwz3IKTGqh7PV/view?usp=sharing](https://drive.google.com/file/d/1yJOlsGy4MVI_-utzGIKnwz3IKTGqh7PV/view?usp=sharing)

For any queries contact to Dr. S. K. S. Parashar (sksparasharfy@kiit.ac.in).

## WHO CAN ATTEND?

The target group is Industries, applied research institutes, startup companies, entrepreneur young researchers, faculties, scientists, post doctorates, scholars, students.

## Registration Fees: Free

No Registration Fees for attending FMT 2020.

## How To Register?

Registration and abstract submission will be done through online only.

Registration link: <https://forms.gle/8yxGJJBvBrU9Vinx9>

## How to attend?

### Interested participants can attend the FMT2020 as below:

#### 1. ZOOM Webinar Link

After the registration a ZOOM webinar ID and password will be sent to the registered email id one day before the scheduled date of the FMT-2020. Maximum of 1000 participants can be accommodated in each zoom webinar session.

If the webinar reaches the maximum capacity, the participants are advised to watch the session through YouTube LIVE stream and try to join the next session in the ZOOM Webinar, with the same Zoom ID and Password.

#### 2. YouTube LIVE Stream

All sessions will be live streamed through the KIIT FMT-2020 YouTube LIVE CHANNEL. Interested participants are advised to watch the session LIVE stream through YouTube link

## Important Dates:

Registration and Abstract Submission opens	: 10th September, 2020
Last Date YOUNG ENTREPRENEUR AWARD	: October 5, 2020
Last Date of Abstract submission	: October 5, 2020
Intimation of Acceptance	: October 10, 2020
Last date of Registration	: October 10, 2020
Date of Conference	: October 13-14, 2020

## E-Certificate:

E-certificate will be provided to all registered participants for FMT 2020 .

## Advisory Committee

### *Chief Patron*

**Prof. (Dr.) Achyuta Samanta**

Hon'ble Founder, KIIT & KISS

### *Patron*

**Prof. Subrat Kumar Acharya**

Hon'ble Pro-Chancellor,  
KIIT Deemed University

**Prof. Hrushikesh Mohanty**

Hon'ble Vice-Chancellor,  
KIIT-Deemed to be University

**Prof. Sasmita Samanta**

Hon'ble Pro-Vice Chancellor,  
KIIT-Deemed to be University

**Prof. Jnyana Ranjan Mohanty**

Registrar,  
KIIT-Deemed to be University

## Organising Committee

### *Chairperson*

**Dr. Sandip Chatterjee**

HOD & Director, Electronic Materials &  
Components Development Division,  
Ministry of Electronics and Information  
Technology, Govt. of India

### *Convener*

**Dr. S. K. S. Parashar**

SAS, KIIT-Deemed to be University

### *Co-Convener*

**Dr. T. Venugopal**

Managing Director Welding Alloys  
(Far East) Sdn. Bhd, Director,  
Welding Alloys South Asia Pvt Ltd. Malaysia

### *Steering Committee*

#### *Chairperson*

**Dr. Bharat B. Kale**

Director General (AC)

Center for Materials for Electronics Technology, (C-MET)

**Dr. Sankha Dip Das** . Scientist,

Ministry of Electronics and Information Technology, Govt. of India

**Dr. Sunit B. Rane**, Scientist

Center for Materials for Electronics Technology, (C-MET), Pune

#### *Registration Committee*

**Dr. Sutanu Mangal**, SAS, KIIT-Deemed to be University, India

**Dr. Bhavya Bhushan**, SAS, KIIT-Deemed to be University, India

**Dr. Maya Devi**, SAS, KIIT-Deemed to be University, India

**Dr. Kajal Parashar**, SAS, KIIT Deemed to be University, India,

**Dr. Samersh Jena**, SAS , KIIT Deemed to be University, India

### *International Advisory Committee*

**1. Jean Marie Bonnel** Welding Alloys Group, France

**2. Mario Cordero**, Welding Alloys Group, UK

**3. Patrick Glynn**, BEST, Queensland, Australia

**4. Satya Kondapalli**, EMEA, Germany

**5. Surekha Krishnan** , USA

**6. Moni Kanchan Datta**, Pittsburg,

**7. Sukamal Naskar**, Singapore

**8. K.G. Prashanth**, Tallinn University of Technology, Tallinn, Estonia

**9. Jürgen Eckert**, Erich Schmid Institute of Materials Science, Austria

**10. Choi, Chul Ho**, Gyeonggi-do, Korea

**11. Saroj Nayak**, IIT Bhubneswar, India

**12. Gopal Kundu**, KIIT-Deemed to be University, India

**13. S. Nanda**, KIIT, Deemed to be University, India

**14. P. Pattjoshi**, KIIT, Deemed to be University, India

**15. Balram Sahoo**, IISC Bangalore, India

**16. Ashok Kumar**, NPL Delhi, India

**17. Smita Mohanty**

CIPET Bhubaneswar, India

**18. Susant Kar**, NALCO, Bhubaneswar, India

**19. S. K. Kar**, CTDC, Bhubaneswar, India

**20. Kalol Mondal**, IIT Kanpur, India

**21. Pratik K. Ray**, IIT Roper, India

**22. Animesh Mondal**, IIT Bhubneswar, India

**23. A.K. Chaubey**

CSIR- IMMT Bhubaneswar, India

**24. Somma Dutta**, NAL, India

**25. Chinmaya Kar**, MM Galaxy, India

**26. Tapabrata Maity**, NIFFT Ranchi, India

### **Contact Us For any queries:**

E-mail: nano.kiit@kiit.ac.in

For Registration related: +91-8598825179, +91 9437052957

For Award & Industry related : +91-9438730872

For more information visit: <https://event.kiit.ac.in/fmt-2020/>

#### Convener, FMT 2020

S. K. S. Parashar

Assoc. Professor, School of Applied Sciences, KIIT Deemed to be University

Institute of Eminence (IOE),

Bhubaneswar-751024, Odisha, India

Mob No. +91 9438730872, Mail Id: sksparashar@kiit.ac.in

#### ADDRESS FOR CORRESPONDENCE

#### Organising Secretary, FMT 2020

Rajendrakumar Sharma

Chairman & Managing Director,

Spel Technologies Pvt. Ltd, Pune, India

Mob: 9326781092

Mail Id: spel@supercapacitor.in

# Application Form

<https://docs.google.com/forms/d/1g7I0Gc3wu2i1shpELcLp6JMOTYkNIXo0IoMUFjjDo7I/edit?usp=sharing>

## YOUNG ENTREPRENEUR AWARD FMT 2020

*International Virtual Conference on*

## “Frontiers in Manufacturing Technology” (FMT 2020)

October 13-14, 2020

**Last Date for Application: October 5, 2020**

- 1.Title:.....
- 2.Abstract (One Page):.....
- 3.Name:.....
- 4.Affiliation/Institute/Startup /or a any Other Company/Innovator:.....
- 5.Address:.....
- 6.E-mail:.....
- 7.Mob No.:.....
- 8.About Start up /Innovator/ or any other (one Page):.....
- 9.Brief summary of work done/ or continuing maximum FIVE page A4 size only:.....
- 10.Work done in this Pandemic Covid 19: .....
- 11.Work for Unreach to Reach people:.....
- 12.Contribution to make self sustainable:.....
- 13.Creating job opportunity:.....
- 14.Indigenously developed technology for larger employment, and Atmanirbhar Bharat:.....
15. Problems and suggestive solutions:.....
- 16.If any awards Received earlier: .....
- 17.What helps you want from academia/Institution:.....
- 18.What problems you are facing to bring your product international Standard:.....



*Organized by*

Department of Physics, School of Applied Sciences,  
Kalinga Institute of Industrial Technology (KIIT) Deemed to be University

**Institute of Eminence (IOE)**

1<sup>st</sup> in Atal Ranking of Institutions on Innovation Achievements (ARIIA) among self-financing Institutions.  
Bhubneswar-751024, Odisha, India