

Name of the Program	ETDMMT 2020 : Virtual International Conference
Topic	Emerging Trends in Design, Manufacturing, Materials and Thermal Sciences
Date	24 th and 25 th September 2020
Audience	Faculty Members & Students
Resource Persons	Mr. Prakash Anantharaman, Vice president (R&D), Renault Nissan Technology & Business Center India. & There are Multiple Key Note Speakers, Kindly check the report.
Convener	Dr. S. Rasool Mohideen, Dean School of mechanical Sciences.
Co-ordinator	Dr. A.S. Selvakumar, Professor, Department of Mechanical Engineering, BSACIST.

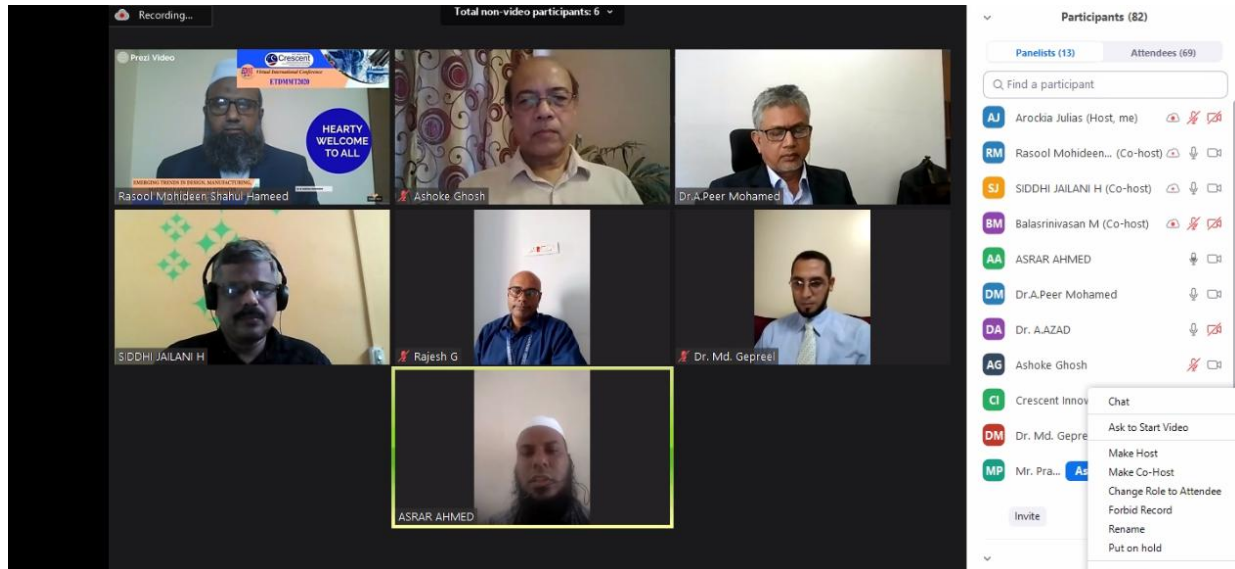
B.S.ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING

ETDMMT 2020 : Virtual International Conference

Emerging Trends in Design, Manufacturing, Materials and Thermal Sciences

ETDMMT 2020, Virtual International Conference jointly organized by Departments of Mechanical, Aerospace and Automobile Engineering was conducted on 24th and 25th of September 2020.

This forum provided an opportunity for the researchers to share the advances in Design. Manufacturing, Materials and Thermal Sciences stream.



The conference conducted successfully due to support obtained from Management, Pro-Vice Chancellor, Dean (SMS), HoD/ Aerospace & Automobile,

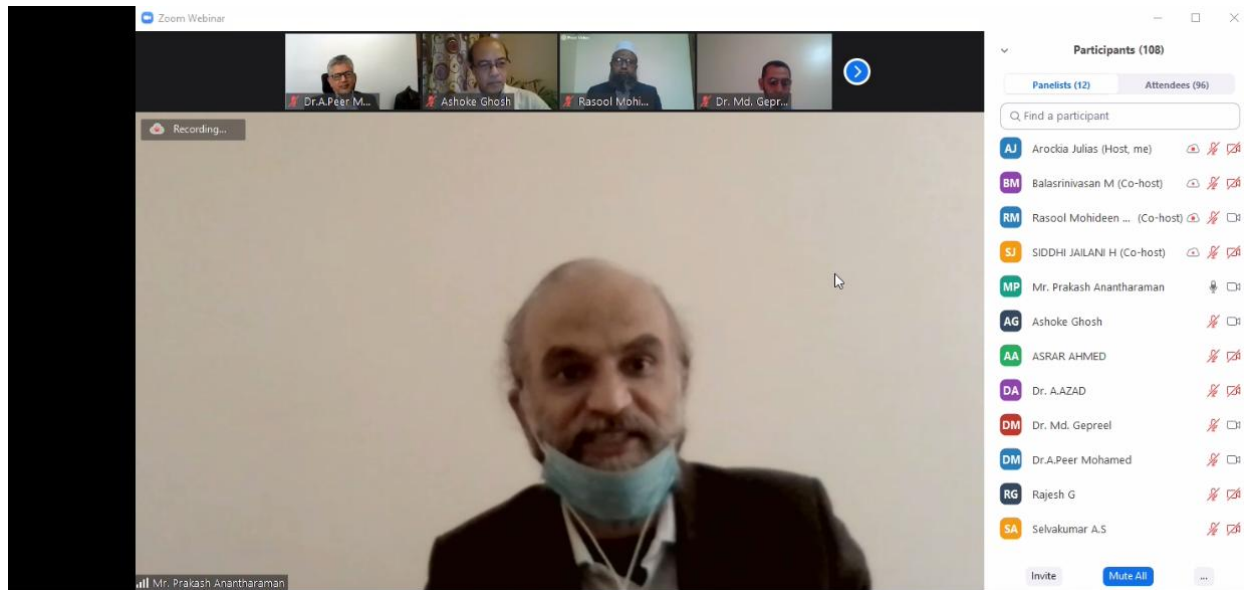
HoD/Mechanical, Staff members : Teaching and supporting from Mechanical, Aerospace & Automobile, Organizing committee members, Steering committee members, Advisory committee members, Students, Research scholars, Editors, Authors, Keynote speakers, my pad now organizer, Session chairs and Session organizers.

More than **100 abstracts** received and around **80 research manuscripts received from Design, Manufacturing, Materials and Thermal sciences streams**. All the manuscripts were submitted by authors through my pad now online Platform. The entire process of manuscript receipts, review process, camera ready papers submission and registration process are managed electronically by my pad now.com. Authors from various institution across globe such as Higher College of Technology, Oman, Madras Institute of Technology, Pondicherry Engineering College, Vellore Institute of Technology, Sastra University, SRM Institute, Rajalakshmi Institute of Technology, Sri Sai Ram Institute, National Engineering College, Kumaraguru college of Technology, Karunya Institute of Technology and Sciences, Aditya Institute of Technology and Management Kerala State Institute of Design , Kumaraguru College of Technology, GNA University, Hindustan Institute of Science & Technology, and Vel Tech University including BSACIST submitted manuscripts for this conference.

All the papers were reviewed by team of internal and external expert members from Anna University, MIT, SRM Institute, IIITDM, S.S.N Institute, Vel Tech, M.S. Ramaiah Institute of Technology, National Engineering College, HITECH, Hindustan Institute, PSR College of Engineering, Rajalakshmi Engineering College, Sathyabama University, and Kumuraguru college of Engineering. The authors submitted camera ready manuscripts for further processing after plagiarism check.

Around 100 authors/Co-authors, faculty members from Mechanical, Aerospace and Automobile of B.S.A. Crescent Institute have participated this conference. During Inauguration - Welcome address was delivered by Dr. S. Rasool Mohideen , Professor & Dean (S.M.S), Presidential address delivered by Dr. A. peer Mohamed, Vice Chancellor (i/c) and Pro-Vice Chancellor and Felicitation address delivered by Dr. A. Azad, Registrar, BSACIST.

The conference was inaugurated by well known industrialist Mr. Prakash Anantharaman, Vice president (R&D), Renault Nissan Technology & Business Center India. The chief guest delivered inaugural address on features of Industry 4.0.



The eminent expert members from academia and Industries delivered Key Note address on various topics were useful to the participants. The details are as follows.

Day 1: 24.9.20 F.N

Key note Speaker: 1

Dr. Mohamed Abdel-Hady Gebreel

Professor

Department of Materials Science and Engineering

Egypt- Japan University of Science & Technology

Key Note Lecture delivered on Topic: New generation of Titanium alloy for Biomedical Applications.

Day 1: 24.9.20 A.N

Key note Speaker: 2

Mr. K.Sethu Baskaran

General Manager- Ford India Private Ltd

Key Note Lecture on Topic: Factory for Tomorrow

Day 2 : 25.9.20 F.N

Key note Speaker: 1

Prof. DatoTs. Dr. Ahmad Mujahid Ahmad Zaidi

Deputy Vice Chancellor

Academic and International

National Defence University, Malaysia

Key Note Lecture delivered on Topic: Applications Modelling and Simulation: Analysis of shaped charge Hyper Velocity Penetration metallic Target.

Zoom Webinar

Recording

Example of Analytical Predictive Model Development: 1

Second Order Equation of Motion
 $m\ddot{x}(t) + c\dot{x}(t) + kx(t) = f(t)$

Convert to Exponential Function
 $\ddot{x}(t) = Ae^{pt}, \dot{x}(t) = PAe^{pt}, x(t) = \frac{P^2Ae^{pt}}{(P^2 + 2\zeta\omega_n P + \omega_n^2)} = F(t)$

Displacement response
 $x(t) = \frac{F_0}{k} \left[1 - \frac{e^{-\zeta\omega_n t}}{\sqrt{1-\zeta^2}} \sin(\omega_d t + \phi) \right]$

Reference:
A.M.Ahmad Zaidi, M.F.S. Koslan and M.Z.Othman (2015), Response of Armour Plate Subjected to Blast Loading Based on Analytical Model Second Order Single Degree of Freedom, Materials Science Forum Vol 819.

UNIVERSITI PERTAHANAN NASIONAL MALAYSIA

Participants (48)

Panelists (10) Attendees (38)

Search

- SR SHAIK RAYAN BUHARI IMTHEVAZ
- SN Siraju... Allow to Talk More >
- SS Sreenath Sreekumar
- SN Sri nithya mahottamananda jayapal
- SS Sriram Surya
- SF Syed Farhaan
- SS Syed Shaul hameed
- SW Syed Wahid ali.M
- SZ Syed Zubair
- TM Thirumurugan M
- VR Venkata Rangarao

Lower All Hands

Chat

Day 2: 25.9.20 A.N

Key note Speaker:2

Dr. G. Balamurugan

Senior Principal Scientist

CSIR- National Aerospace Laboratories, Bengaluru.

Key Note Lecture delivered on Topic: Overview of Aircraft system, Model, Micro and Additive Manufacturing.

About paper presentation session, on **24thSeptember 2020**, Authors presented manuscripts related to Materials and Manufacturing stream. The Virtual conference was conducted by Zoom on line platform. This was evaluated by both Internal and External session chairs. The sessions were organized by Mr. C. K. Arvindapandian, Mr. C. Dinesh Kumar, Mr. G. Rajesh and Mr. M. Balasrinivasan.

In Materials and Manufacturing: **22** manuscripts were presented by authors. The details are as follows.

No of papers	Internal Session Chairs	External Session Chairs
Materials : 10	<p style="text-align: center;">Dr.A.ArokiaJulias Assistant Professor/Sr. Grade Mechanical</p> <p style="text-align: center;">Dr. T.R. Tamilarasan Associate Professor/ Automobile</p>	<p style="text-align: center;">Dr. B. Mohan Professor/ Mechanical Anna University</p> <p style="text-align: center;">Dr.S.Beer Mohamed Dean, School of Technology Central University of Tamilnadu Thiruvavur</p>
Manufacturing : 12	<p style="text-align: center;">Dr.M.Thirumurugan Associate Professor/ Mechanical</p> <p style="text-align: center;">Dr.S.Jeavudeen Assistant professor (Sr. Grade) Mechanical</p>	<p style="text-align: center;">Dr. L. Poovazhagan Associate Professor/ Mechanical SSN College of Engineering</p> <p style="text-align: center;">Dr. U. Mohamed Iqbal Associate Professor/ Mechanical SRM Institute of Science & Technology</p>

About paper presentation session, on **25th September2020**, Authors presented manuscriptrelated to Design and Thermal area. This was evaluated by both Internal and External session chairs.The sessions were organized by Mr.K.SathickBasha,Mr. B.Suryarajan , Mr. S.V.Karthikeyan and Sri NithyaMahottamananda.

In Design and Thermal: **24 Manuscripts** were presented by authors. The details are as follows.

No of papers	Internal Session Chairs	External Session Chairs
Design : 12	<p>Dr. V. Muralidharan Associate Professor/ Mechanical</p> <p>Dr. P.D. Jeyakumar Associate Professor/Mechanical</p>	<p>Dr.Velamurali Professor/ Mechanical Anna University</p> <p>Dr.S.Jeyanthi Associate Professor/ Mechanical VIT- Chennai</p>
Thermal : 12	<p>Dr. P.N. Kadiresh Professor/ Aerospace</p> <p>Dr.S. Mohamed Illyas Assistant Professor/ Sr. Grade-Mechanical</p>	<p>Dr.Murugan Professor/ Mechanical NIT –Rurkela</p> <p>Dr.S.Karthick Assistant professor/ Mechanical IIITDM- Kancheepuram</p>

The Valedictory function was conducted on 25.9.2020 at 4 p.m. During this function, Best paper award declared and then the conference concluded.

Best Paper award was given to the following presenters:

Sl.No	Name of the Presenter	Stream	Affiliation
1	Mrs. Zeenath Fathima Syed	Manufacturing	Higher College of Technology, Oman
2	Mr. Sreenath Sreekumar	Design	B.S.A.Crescent Institute of Science & Technology
3	Mr. Sivasankara Raju	Materials	Aditya Institute of Technology and Management, Tekkali
4	Mr. Ashiq Wahaq Mr. Ajees Aboobucker	Thermal	B.S.A. Crescent Institute of Science & Technology National Engineering College, Kovilpatti.

Recording

Arockia Julias						
Mohamed Sahal	Mohammed Shuai...	Hariharan R	Muthu manokar	Masiuddin P.S.	Hari Haran,G	Suhaib Abdullah
			Ravikumar N	DineshKumar C	rajmohan nagarajan	Mohd Durvesh Mo...
Shaik Rayyan Buh...	Syed Farhaan	Rahul Ravindar	AEJAZ AHAMME...	EUGENE MATHEW	Mohamed Affa	