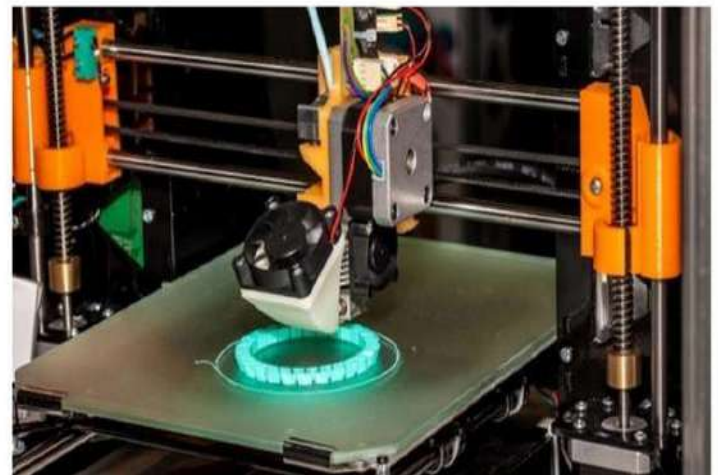
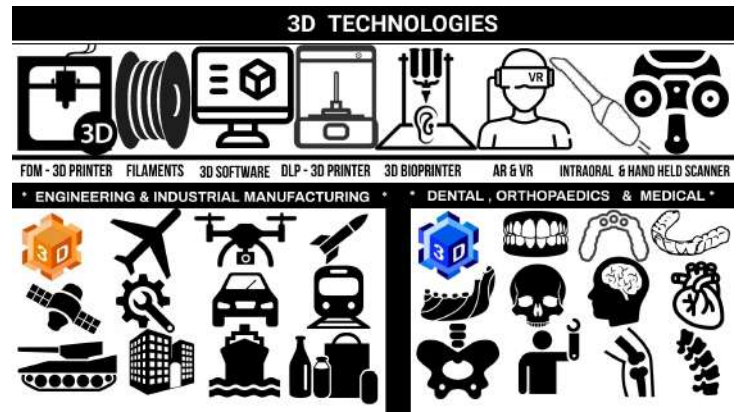


3D Graphy Engineering & Medical 2023 (3D GEM 2023)

IIT Bombay, VMCC,
Powai, Mumbai,
Maharashtra, India

9th & 10th December 2023



3D GRAPHY is a platform promoting **3D** technologies which consist of **3D** printing, **3D** Scanning, **3D** Imaging, **3D** Software, **3D** Simulation and **3D** Visualisation (AR, VR, MR). The platform is into Training, events, Research, consultancy and Service for Students and Professional across Engineering, Industrial manufacturing, Dental and Medical specialisations. **3D GRAPHY ENGINEERING & MEDICAL 2023** is an event with Conference, Exhibition and Awards jointly Organised by IIT Bombay, Trinity Media & 3D GRAPHY to be held on 9th & 10th December @ IIT Bombay, VMCC, B Nag Auditorium, Powai, Mumbai. The 9th December event will be joined by Mechanical Engineers, Metallurgists, researchers, 3d technology companies, 3D Designers and end users from Aerospace, Defence, Drones, Shipbuilding, Automotive, Energy, packaging, FMCG and Industrial manufacturing. The 10th December event will be dedicated for Dentists, Maxillofacial Surgeons, Orthopaedic Surgeon, Neurosurgeons, Cardio surgeons, material scientist, researchers, biomedical engineers, Tissue Engineers, 3D technology companies, pharma companies and medical practitioners across specialisation.

ORGANISED BY





3D GRAPHY ENGINEERING & MEDICAL 2023

9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium, Powai, Mumbai

CONFERENCE | POSTER PRESENTATIONS | EXHIBITION | AWARDS

Event website : www.3dgraphy.org

SUMMARY



3D GRAPHY ENGINEERING & MEDICAL 2023 - is the 3rd edition of a physical event to be held on 9th & 10th of December 2023 at IIT Bombay, VMCC B Nag Auditorium, Powai, Mumbai, Maharashtra, India. The event is jointly organised by IIT Bombay & 3D Graphy. The event will include conference, exhibition, poster presentations and awards recognising the initiators. 3D Technologies will be the key focus of the event with topics on 3D Printing, 3D Scanning, 3D Simulation, 3D Design (Design for Additive Manufacturing), 3D Visualisation - AR, VR, MR & Material science. We are expected to have 50 plus speakers, 40 plus exhibitors and 1500 plus visitors from all the sectors and specialization attend the event. The speakers will include researchers', scientists, doctors, 3d designers, material experts, 3d technology experts and users from different industries.

ACTIVITIES :

- 3D GEM 2023 - Poster Presentation** is an initiative to invite aspirants from Engineering, Medical, Design, Tissue Engineering and Material Science institutes to participate in Poster Presentations to share their latest efforts in R & D made and achieved with 3D technologies - 3D Printing, 3D Scanning, 3D Design, 3D Simulation, 3D Visualisation - AR & VR and 3D printable materials. The participation is extended to all IIT's, NIT's, Engineering College, Medical College, Dental Colleges and also Companies and Organisations. The participants will be acknowledged with the Poster Presentation Awards once selected by a learned team of 3D technology experts who is a part of our Jury Panel. The poster presentation participation is open for Students and Non- Students. Non - Students will be either individual / Organisation (Consultants, 3D tech Freelancers, Scientist, Researcher, Entrepreneurs, Manufacturer, Start-ups, 3D technology expert, 3D printing cos, 3D Printing Service Provider, Doctors, Surgeons, Engineers, Designers, Maker, 3D Enthusiast or any professional in his or her respective field is would like to grow in 3D technology)

The platform will help participants and industry to gain insights on the latest developments and research in 3D technologies across sectors in India to Globally compete.



2. **3D GEM 2023 - Conference** - An event which will include 18 sessions on different subjects conducted for 2 days. 3D Technologies will be the key focus of the event with topics on 3D Printing, 3D Scanning, 3D Software, 3D Simulation, 3D Design (Design for Additive Manufacturing), 3D Visualisation - AR, VR, MR & Material science (3d Printable Metal, Polymer, resin, bio-inks, ceramics and others) used in Engineering, Industrials manufacturing, dental and medical. We are expected to have 3d technology experts and end users join for knowledge & networking translating to business.

The conference will have Scientific Sessions on topics related to Engineering & Industrial Manufacturing on the first day .i.e. 9th December with the title **3D GRAPHY ENGINEERING 2023 : “ Democratising 3D technology to benefit engineering and Industrial Manufacturing across sectors”** - a day dedicated to sectors like Aerospace, Defence, Drones, Automotive, Oil & Gas, Energy, Railways, Shipbuilding, Architecture, Construction, Engineering, tooling, Packaging and others. Similarly on the following day .i.e. 10th December the title of the event is **3D GRAPHY MEDICAL 2023 - “ Democratising 3D technology to benefit Dental & Medical practitioners for better patient outcomes”** which will address specialisation is Dental, Neuro, Orthopaedic, Cardiology, Medical Devices, Orthotics, Prosthetics, Pharma, Tissue Engineering and others.

The event has registered 55 plus speaks and expecting 600 plus delegates join the conference with representations from different industry associations. Some of the Industry Associations and Govt. Institution participating in the event includes National Small Scale Industries - Ministry of Small and Medium Enterprises, Govt of India, Aeronautical Society of India, MRO Association of India, Society for Aerospace, Maritime & Defence Studies, 3D Printing Education & Research Association, National Centre for Additive Manufacturing, Aerospace & Defence Consultants Association of India, Association of Healthcare Providers (India), Association of Indian Medical Devices Industry, Indian Dental Association, Association of Maxillofacial Surgeons of India, Indian Orthopaedic Association, Orthotics & Prosthetics Association of India, Society of Biomaterials & Artificial Organs and many others who will join as we progress to the event date.

3. **3D GEM 2023 - Exhibition** - Display and showcasing the latest 3D technologies which will benefit all the sector representatives looking for 3D technology solutions in Aerospace, Defence, Drones, Automotive, Oil & Gas, Energy, Shipbuilding, Architecture, Construction, Packaging, Dental, Orthopaedic, Medical Devices, Orthotics, Prosthetics, Pharma, Tissue Engineering and others. The platform will be a good buyer and seller meeting place for both the engineering and medical sector. end users across industries from India and Globe will join to see an opportunity to learn and then book their interest to procure the 3d technology solutions exhibited by companies.



3D GRAPHY ENGINEERING & MEDICAL 2023

9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium, Powai, Mumbai

CONFERENCE | POSTER PRESENTATIONS | EXHIBITION | AWARDS

Event website : www.3dgraphy.org

EVENT



WWW.3DGRAPHY.ORG

ORGANISERS





3D GRAPHY ENGINEERING & MEDICAL 2023

9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium, Powai, Mumbai

CONFERENCE | POSTER PRESENTATIONS | EXHIBITION | AWARDS

Event website : www.3dgraphy.org

SPONSORS & EXHIBITORS



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EVENT MANAGEMENT PARTNER

OFFICIAL ONLINE NEWS PARTNER



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3D GRAPHY ENGINEERING & MEDICAL 2023

9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium, Powai, Mumbai

CONFERENCE | POSTER PRESENTATIONS | EXHIBITION | AWARDS

Chief Patron of 3D GEM 2023: Dr.Subhasis Chaudhuri, Director, IIT Bombay

ORGANISING COMMITTEE MEMBERS

SR. NO	NAME	DESIGNATION	ORGANISATION
1	Prof. Mahesh Tirumkudulu	Head, Chemical Engineering	IIT Bombay
2	Prof. Rohit Srivastava	Biosciences and Bioengineering	IIT Bombay
3	Prof. Abhijit Majumder	Chemical Engineering	IIT Bombay
4	Prof. Prakriti Tayalia	Biosciences and Bioengineering	IIT Bombay
5	Prof. Shamik Sen	Biosciences and Bioengineering	IIT Bombay
6	Prof. Ravi B	Director	National Institute of Technology, Surathkal
7	Prof. Jayesh Bellare	Institute Chair Professor, Chemical Engineering	IIT Bombay
8	Mr. Shounak Dey Roy	Incharge, U G Laboratory, Chemical Engineering	IIT Bombay
9	Dr. Shibu John	Founder & CEO	3D Graphy LLP / Trinity Media & Marketing Solutions



3D GRAPHY ENGINEERING & MEDICAL 2023

9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium, Powai, Mumbai

CONFERENCE | POSTER PRESENTATIONS | EXHIBITION | AWARDS

EVENT ORGANISING COMMITTEE MEMBERS

			
Dr. Shibu John Founder & CEO, 3D GRAPHY LLP / TRINITY MEDIA	Dr. Jayesh Bellare, Institute Chair Professor, Chemical Engg, IIT Bombay	Prof. B Ravi Director, National Institute of Technology, Surathkal	Prof. Mahesh Tirumkudulu Head Chemical Engg, IIT Bombay
			
Dr. Rohit Srivastava, Professor, Bioscience & Bioengineering, IIT Bombay	Prof. Shamik Sen, Bioscience & Bioengineering IIT Bombay	Prof. Prakriti Tayalia, Bioscience & Bioengineering, IIT Bombay	Prof. Abhijit Majumder Chemical Engg, IIT Bombay
			
Mr. Shounak Dey Roy Incharge, U G Laboratory Chemical Engg, IIT Bombay			

3D PRINTING

3D SCANNING

3D IMAGING

3D MODELING

3D SOFTWARE

3D DESIGN

3D VISUALISATION

3D SIMULATION

MATERIALS

www.3dgraphy.org



3D GRAPHY ENGINEERING & MEDICAL 2023

9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium, Powai, Mumbai

CONFERENCE | POSTER PRESENTATIONS | EXHIBITION | AWARDS



Message from Dr. Subhasis Chaudhuri, Director, IIT Bombay the Chief Patron of 3D GEM 2023



भारतीय प्रौद्योगिकी संस्थान मुंबई
पवई, मुंबई-400 076, भारत

Indian Institute of Technology Bombay
Powai, Mumbai-400 076, India



Office : 2572 3488, 2576 7001
Res. : 2572 3738, 2576 8000
Fax : 91-22-2572 3546
E-mail : director@iitb.ac.in
Website : www.iitb.ac.in

IIT Bombay

सुभाषिष चोपुरी, निदेशक
Subhasis Chaudhuri, Director

MESSAGE FROM THE DIRECTOR

Dear Conference Participants,

IIT Bombay as an Institute has always supported students and faculty to be resourcefully active in promoting innovation and research in every area of specialisation. 3D Printing and Visualisation promises to be a great technology supporting innovation across various industries. Thus, it is an appropriate time for us to host this event on the subject with students, academia, engineering and medical experts, researchers, start-ups and others.

I am happy that IIT Bombay is organizing 3D Graphy Engineering & Medical 2023 in conjunction with 3D Graphy LLP on 9th & 10th December 2023 in IIT Bombay, VMCC, Powai, Mumbai.

It is imperative that students in engineering and medicine are both adequately exposed to these 3D technologies with material science as an important component which is a perfect requisite to create better products and solutions under Industry 4.0.

I take this opportunity to invite all students, academia, Industry associations, professionals from dental, medical, engineering and manufacturing industry to join and share their experiences.

With best regards,

Date: 08.05.2023
Place: Mumbai

(Subhasis Chaudhuri)



3D GRAPHY ENGINEERING & MEDICAL 2023

9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium, Powai, Mumbai

CONFERENCE | POSTER PRESENTATIONS | EXHIBITION | AWARDS



Message from Dr. Jayesh Bellare, Organising Committee Member of 3D GEM 2023



भारतीय प्रौद्योगिकी संस्थान मुंबई
पवा, मुंबई-400 076, भारत
Indian Institute of Technology Bombay
Powai, Mumbai-400 076, India

दूरभाष/Phone : (+91-22) 2572 2545
फैक्स/Fax : (+91-22) 2572 3480
वेबसाइट/Website : www.iitb.ac.in

IIT Bombay

Message from Prof. Jayesh Bellare, IITB on behalf of Organizing Committee

15-May-2023

Dear Conference Participants,

This conference called 3D GEM 2023 in short, which stands for 3D Graphy Engineering & Medical 2023, is a fantastic opportunity for experts from academia and industry, as well as students from Engineering and Medical institutes, to join together to benefit from the latest developments in 3D Printing & 3D Visualisation for cutting-edge Engineering and Medical applications. The event has two themes: Engineering and Medical.

The first theme, 3D GRAPHY ENGINEERING 2023, has focus on "Democratising 3D technology to benefit Engineering and Industrial Manufacturing across sectors" (on 9th December 2023), has sector representatives in Aerospace, Defence, Drones, Space Technology, Automotive, Engineering, Shipbuilding, Tooling, Energy, and Packaging, among others.

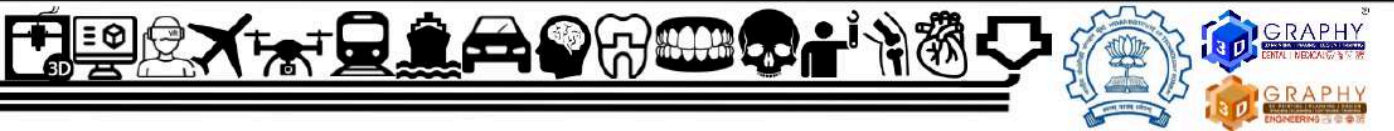
The second theme, 3D GRAPHY MEDICAL 2023, has focus on "Democratising 3D Technology to benefit Dental & Medical practitioners for better patient outcomes" (on 10th December 2023) with sector representatives in Dental, Craniofacial, Neurology, Maxillofacial, Orthopaedics, Cardiology, Medical Devices, Orthotics, Prosthetics, Tissue Engineering, Pharma and others.

The organizing committee invites students, academia, industry and industry associations, professionals from dental, medical, engineering and industrial manufacturing to join us to share their experiences and benefit from the event for knowledge and networking. We have talks, exhibition and poster presentations, together with awards recognizing the initiators, that will keep participants well engaged in the proceedings for an active engagement. We will hope to see and listen to the latest 3D technology and its applications that will be showcased for Dental, Medical, Engineering and Industrial Manufacturing.

I welcome you all to join and benefit from the event.

Best regards,

Prof. Jayesh Bellare,
Institute Chair Professor
Department of Chemical Engineering,
IIT Bombay



3D GRAPHY ENGINEERING & MEDICAL 2023

9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium, Powai, Mumbai

CONFERENCE | POSTER PRESENTATIONS | EXHIBITION | AWARDS



Message from Dr. Shibu John, Founder & CEO, 3D Graphy LLP and Organising Committee Member 3D GEM 2023

Dear Respondents,

3D GRAPHY is a platform for 3D Printing Training, Events, Research & Service for Students, Professionals in Engineering, Industrial manufacturing, Dental and medical. Here are the details of our company 3D GRAPHY LLP found in the website www.3dgraphy.in

It gives me immense pleasure to share the potential of 3d printing which is a Game Changing technology.

3D Printing, also known as additive manufacturing, is a cutting-edge technology that has revolutionized engineering and medical fields. It involves the creation of three-dimensional objects by depositing materials layer by layer based on a digital model. In engineering, it enables rapid prototyping, customised parts production, and complex geometries. In medicine, it offers personalized Dental Implants, Orthopaedic Implants, Medical Devices, prosthetics, anatomical models, and drug delivery systems. 3D Printing in engineering and medical applications has opened up new possibilities for innovation, efficiency, and patient-specific solutions.

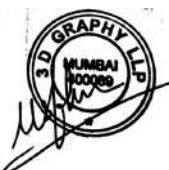
So to address both engineering and medical sectors we would like to conduct our 3rd edition of 3D Graphy Engineering & Medical 2023 with all the sectors benefiting from 3D technology. An event which will consist of conference, exhibition, poster presentation from students and non-students with Awards recognising the initiators. The event will be held on 9th & 10th December 2023 @ IIT BOMBAY, Powai, Mumbai, Jointly Organised by IIT BOMBAY & 3D GRAPHY. We are expected to have 55 plus speakers, 450 – 500 delegates, 1500 plus visitors to attend the exhibition with 50 plus exhibitors. The participants will include Engineering, Industrial Manufacturing, Dental and Medical practitioners across specialization with 3D Printing, 3D Visualisation AR & VR technology companies, 3d printable material manufacturing companies, Researchers, Scientist, Doctors, Engineers, 3D technology enthusiast and others join. The event will be addressing specialisation in Aerospace, Defence, Drones, Automotive, Packaging, Shipbuilding, Oil & Gas, Railways and heavy industry with the day one event title – 3D GRAPHY ENGINEERING 2023 on 9th December 2023. And the following day 10th December will address specialisation in Neurology, Dental, Maxillofacial, Orthopaedics, Spine Surgery, Cardiology, Tissue engineering, Medical devices, Medical Equipment's, Prosthetics and pharma with the event title 3D GRAPHY MEDICAL 2023. Both the days will have lectures, panel discussion, exhibition, poster presentations by students and non-students from companies. Participant as delegate will be from all sectors with Engineers, Doctors, Surgeons, 3D Designers, Manufacturers, Scientist, researchers, Entrepreneurs, Consultants, Dentists, Dental Labs, Medical Device Companies, Biomedical Engineers, investors and others to learn and understand the potential of 3D Printing in each sector and specialisation.

A special invitation is also extended to all the industry associations from all the sectors, policy makers drafting policies for Industry 4.0, Start ups and government institutions supporting indigenous Additive manufacturing and 3d technology solutions.

We are happy to jointly organise the event with IIT BOMBAY. We invite all the end users from different sectors and specialisation who will benefit from 3D technology to join. We are sure it would be a good knowledge and networking opportunity which will help translate business.

We welcome you on behalf of IIT BOMBAY & 3D GRAPHY to the 3rd edition of the **3D GRAPHY ENGINEERING & MEDICAL (3D GEM) 2023**. For more details and to join the event with your delegate participation, poster presentation, exhibition stall booking or visitor registration please visit our event website for the needful on www.3dgraphy.org

Thanking You,



Dr. Shibu John,
Founder & CEO, 3D GRAPHY LLP
Founder, Trinity Media & Marketing Solutions,
Founder & Secretary General, 3DPERA

For details: www.3dgraphy.org

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3D GRAPHY ENGINEERING & MEDICAL 2023

9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium, Powai, Mumbai

CONFERENCE | POSTER PRESENTATIONS | EXHIBITION | AWARDS

MESSAGE FROM SPEAKERS & ASSOCIATES OF 3D GEM 2023



Mr. Ashwani Sharma,
Vice Chairman,
Aeronautical Society of India
(Bombay Branch), India

"3-D Printing is a disruptive cutting-edge technology that will totally alter the existing spare-parts and supply-chain protocols in a decade from now. Though Additive Printing is set to encompass entire manufacturing industry but it will prove to be a Quantum leap in Aviation sector and a paradigm shift in field of Medicine"



Dr. A Manjunath,
Scientist GTRE,
Defence Research and Development Organisation.
Ministry of Defence, Government of India

" 3D GEM 2023 conference being held at IITB is a wonderful platform for students, professionals, and researchers and the industry to explore and understand the opportunities and challenges AM offers in the design, process inspection and qualification of parts"



Dr. Asha S. K.,
Chief Scientist and
Chair, Polymer Science & Engineering Division
Professor, AcSIR
CSIR – National Chemical Laboratory, Pune, India

"3D printing today has evolved into a multidisciplinary area which is equally relevant to professionals, students, technical and non-experts. The 3D GEM 2023 – Conference being organized at IIT Bombay on 9th and 10th December offers a good opportunity especially for students and researchers to delve into the myriad aspects of the areas of application of 3D printing ranging from automotive, to packaging and customized biomedical areas."



Dr. Kaushik Chatterjee,
Professor, Department of Materials Engineering &
Centre for Biosystems Science and engineering,
Indian Institute of Science, Bangalore, India

" This is an exciting opportunity to learn about an upcoming technology. The poster session is a great platform for early career researchers to showcase their work to the community. "



3D GRAPHY ENGINEERING & MEDICAL 2023

9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium , Powai, Mumbai

CONFERENCE | POSTER PRESENTATIONS | EXHIBITION | AWARDS



3D GRAPHY ENGINEERING & MEDICAL 2023 (3D GEM 2023)

3D Printing & 3D Visualisation Symposium for Engineering,
Industrial Manufacturing, Dental & Medical

9th & 10th December 2023,
IIT Bombay, VMCC, B. NAG AUDITORIUM, POWAI, MUMBAI, MAHARASHTRA, INDIA

PROGRAM SCHEDULE

DAY 1 (9th December 2023)

3D PRINTING & 3D VISUALISATION FOR ENGINEERING & INDUSTRIAL MANUFACTURING

3D GRAPHY ENGINEERING 2023

CONFERENCE ■ EXHIBITION ■ POSTER PRESENTATION ■ AWARDS

Theme : " Democratizing 3D Technology to benefit Engineering & Industrial Manufacturing across sectors "

EVENT INAUGURATION

TIME	PROGRAM	VENUE
08:30 am - 09:00 am	Stall & Poster Presentation set up	Lobby / Ground floor
09:00 am - 09:30 am	Registration, Tea/ Coffee - Networking	Lobby / Ground floor
09:30 am - 09:40 am	Welcome address by Dr. Shibu John, Founder, 3D GRAPHY LLP	VMCC B Nag Auditorium
09:40 am - 09:50 am	Chief Patron Address: Prof. Subhasis Chaudhuri, Director, IIT Bombay	VMCC B Nag Auditorium
09:50 am - 10:00 am	Chief Guest Address	VMCC B Nag Auditorium
10:00 am - 10:30 am	Keynote Address	VMCC B Nag Auditorium
10:30 am - 11:00 am	Plenary address	VMCC B Nag Auditorium
11:00 am - 11:15 am	Exhibition Inauguration & Tea / Coffee	Lobby/ Ground floor
11:15 am - 11:30 am	Poster Inauguration & Tea/ Coffee	Lobby/ Ground floor

(Day-1 program continued)

GUEST & SPEAKERS

3D PRINTING & 3D VISUALISATION FOR ENGINEERING & INDUSTRIAL MANUFACTURING

3D GRAPHY ENGINEERING 2023
CONFERENCE ■ EXHIBITION ■ POSTER PRESENTATION ■ AWARDS

VENUE : IIT BOMBAY, VMCC, POWAI, MUMBAI | DATE : 9TH DECEMBER 2023 | TIME : 09:00 AM TO 06:30 PM

Theme : " Democratizing 3D Technology to benefit Engineering & Industrial Manufacturing across sectors "

DIGNITARIES 35 ++ SPEAKERS 32 ++ EXHIBITORS 40 ++ DELEGATE 500 +++ VISITORS 1500 ++

CHIEF PATRON	ORGANISERS	GUEST & SPEAKERS						
 Dr. Subhasis Chaudhari, Director, IIT Bombay	 Dr. Shibu John, Founder, 3D Graphy LLP	 Dr. Jayesh Bellare, Institute Chair Prof., IIT Bombay	 Wg Cdr. Raman Soodry Founder President, ADCA	 Cmde. Supert Samadhi Secy, Society for Aerospace Maritime Defence Studies	 Cmde. Anil Jai Singh, Vice President, Indian Maritime Foundation	 Col. R V Kulkarni, Advisor, Aerospace & Defence, I & D Y	 Mr. Brahm Malani, Chairman, Max Aerospace & Aviation Pvt. Ltd	 Mr. Ashwini Sharma, Vice Chairman, Aeronautical Society of India, Bombay Branch
			 Dr. A Marunath, Scientist GTRE, DRDO	 Mr. Vijay Pankhania, Deputy Director, ARAI	 Dr. Ravi K.R., Asst. Professor, IIT Jodhpur	 Dr. Anil Kumar, Scientist SG & DGM, ISRO	 Achilles Contractor, Chairman, Architect Hafest Contractor	 Dr. Christ Paul, Head Incubation, AM RRCAT











3D PRINTING
3D SOFTWARE
3D SCANNING
3D VISUALISATION
3D SIMULATION
MATERIALS

www.3dgraphy.org

3D GEM 2023

3D GRAPHY ENGINEERING 2023

9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium, Mumbai

 Dr. Sunder Pal, Former Vice Chancellor, Defence Institute of Advanced Technology, Ministry of Defence, Govt of India	 Mr. Sanjeev Kumar, CGM, HRD, Steel Authority of India, Govt of India	 Dr. S Chandrasekhar, Director, Roots	 Dr. B. B Ahuja, Director, College of Engineering Pune	 Cmde. Narash Kumar, Former Chairman, Hindustan Shipyard Ltd, Govt. of India
 Mr. Ashmeet Sidhu, Director Naval Systems, Thales Defence	 Dr. Kishora Shetty, Director, Boeing	 Cmde. M. Jitendran, Former Chairman, Cochin Shipyard Ltd, Govt of India	 Cmde. Niranjan Khardenavis, Former, CTO, Indian Navy, Govt of India	 Mr. Anthony Paul, AM, Larsen & Toubro

3D PRINTING
3D SCANNING
3D IMAGING
3D DESIGN
3D SOFTWARE
3D MODELING
3D VISUALISATION
3D SIMULATION
MATERIALS

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(Day-1 program with session theme and topics)

DAY 1 - CONT'D....

SESSION 1 : THEME : AEROSPACE & DEFENCE

Topic - "3D Printing & 3D Visualisation for Aerospace engineering and manufacturing Solutions".

SESSION 2 : THEME : FMCG & CONSUMER PRODUCTS

Topic : "3D Technology benefit in Packaging & FMCG - Reverse Engineering and prototype's".

SESSION 3 : THEME : AUTOMOTIVE , ELECTRIC VECHICLES, ELECTRONICS

Topic : "3D Technology improvisation to meet better standards in Automotive, Electronic and Tooling Industry".

SESSION 4 : THEME : ARCHITECTURE & CONSTRUCTION

Topic : "3D Printing & 3D Visualisation for Architecture & Construction - For better urban planning and development".

SESSION 5 : THEME : SHIPBUILDING, OIL & GAS, STEEL MANUFACTURING , AEROSPACE, ENERGY, RAILWAYS, POWER

Topic : "3D Printing for foundry, supporting Aerospace, defence, shipbuilding, railways, energy and Heavy Industry".

SESSION 6 : THEME: 3D SOLUTIONS IN SOFTWARE, SCANNING DESIGN, AR & VR.

Topic : "Using Design for Additive Manufacturing, 3D Simulation, 3D Scanning & 3D Visualisation : AR, VR & MR for Industry Manufacturing".

SESSION 7 : THEME : VALIDATION & CERTIFICATION OF 3D PARTS

Topic : "3D Simulation processes for validation and accreditation of 3D Printed final parts ".

SESSION 8 : THEME: DRONES & GADGETS

Topic : "3D Printing benefits for Drones manufacturing".

SESSION 9 : PANEL DISCUSSION

Topic : Democratising 3D technology to benefit engineering and industrial manufacturing across sectors

Sub- topic - How to take different steps to democratise 3d technology?

Sub-topic - How to drive business for 3D technology Engineering & Industrial Manufacturing Start-ups and create Investment opportunities?

3D PRINTING & 3D VISUALISATION FOR DENTAL & MEDICAL



3D GRAPHY MEDICAL 2023

CONFERENCE | EXHIBITION | POSTER PRESENTATION | AWARDS

VENUE : IIT BOMBAY, VMCC, POWAI | DATE : 10TH DECEMBER 2023 | TIME : 09:00 AM to 06:30 PM

Theme : " Democratizing 3D Technology to benefit Dental & Medical practitioners for better patient outcomes "

DIGNITARIES 30 ++ SPEAKERS 38 ++ EXHIBITORS 40 ++ DELEGATE 500 +++ VISITORS 1500 ++

CHIEF PATRON



Dr. Subhasis Chaudhari
Director,
IIT Bombay

ORGANISERS



Dr. Shibu John,
Founder,
3D Graphy LLP/
Trinity Media



Dr. Jayesh Bellare,
Institute Chair
Professor,
IIT Bombay

GUEST & SPEAKERS



Dr. Girdhar Gyani,
Director General,
AIET



Dr. Girish Rao,
General Secretary,
AOMSI



Dr. Bhanu Prasad,
Professor,
IIS, Bangalore



Dr. Anandaram Patil,
National Secretary,
OSAI



Dr. Vignesh Bapir,
HOD JRFI, Sagun, Sir HN
Reliance Foundation Hospital



Dr. Tejendra Patel,
Asst Professor,
IIT Hyderabad



Dr. Anil Goyal,
Neuro-Surgeon,
KEM Hospital



Dr. Claudio Soto,
Chief Medical Officer,
Cooper 3D



Dr. Ashutosh Salunke,
Orthopaedic Oncology
Sujat Cancer &
Research Institute



Dr. Kausik Chatterjee,
Associate Professor,
Indian Institute of Science



Dr. Anmol Aggarwal,
Maxillofacial Surgeon,
Yashoda Hospital



Dr. John Nason,
Director, CTARS

3D PRINTING

3D SOFTWARE

3D SCANNING

3D VISUALISATION

3D SIMULATION

MATERIALS

www.3dgraphy.org

3D GEM 2023



3D GRAPHY ENGINEERING & MEDICAL 2023

9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium, Mumbai

3D GRAPHY MEDICAL 2023



Dr. Ashok Dhole,
General Secretary,
Indian Dental Association



Dr. Girdhar Gyani,
Director General,
Association of Healthcare
Providers (India)



Mr. Rajiv Nath,
Forum Co-ordinator,
Association of Indian Medical
Device Industry



Dr. Hemanshu Mehta,
President,
Indian Society of Oral Implantologist



Dr. Atul Srivastava,
President,
Indian Orthopaedic
Association



Dr. T V Narayana,
National President,
Indian Pharmaceutical
Association



Mr. Sushant Banerjee,
Vice President,
Orthopaedic Implant
Manufacturers Association



Dr. Amit Gupta,
Secretary,
ISOI



Dr. Narayan Karne,
Secretary,
Maharashtra Orthopaedic
Association



Dr. Dinesh Jain,
MD,
Dental Ceramists

3D PRINTING

3D SCANNING

3D IMAGING

3D MODELING

3D SOFTWARE

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3D VISUALISATION

3D SIMULATION

MATERIALS

www.3dgraphy.org



3D GRAPHY MEDICAL 2023

CONFERENCE ■ EXHIBITION ■ POSTER PRESENTATION ■ AWARDS

VENUE : IIT BOMBAY, VMCC, POWAI | DATE : 10TH DECEMBER 2023 | TIME : 09:00 AM to 06:30 PM

Theme : " Democratizing 3D Technology to benefit Dental & Medical practitioners for better patient outcomes "

(Day-2 program with session theme and topics)

SESSION 10 : THEME : 3D TECHNOLOGY FOR HOSPITALS

Topic : " Democratizing 3D technology in Hospitals - A Point of Care for treatment planning & Patient satisfaction".

SESSION 11 : THEME : BIOCOMPATIBLE MATERIALS & TISSUE ENGINEERING

Topic : "3D Bio-Printing of Hard & Soft Tissues for different dental and medical applications" :

SESSION 12 : THEME : 3D TECHNOLOGY SOLUTIONS FOR NEURO, CRANIOFACIAL , MAXILLOFACIAL AND ORTHOGNATIC SURGERY

Topic : "3D Printing solution for Head & Neck"

SESSION 13 : THEME : ORTHOTICS & PROSTHETICS

Topic : "3D Scanning with 3D Printing for customised Orthotics and Prosthetic Solutions".

SESSION 14 : THEME: 3D TECHNOLOGY FOR ORTHOPAEDICS - PSI IN KNEE JOINTS, HIP, TALUS, SPINE, FEMUR OTHERS

Topic : "3D Printing for Orthopaedic Application".

SESSION 15 : THEME :3D TECHNOLOGY SOLUTION FOR IMPLANTOLOGY AND ORTHODONTICS

Topic : "3D Printing for Dental application across specialization".

SESSION 16 : THEME : PHARMA AND DRUG TESTING

Topic : "3D Printing in Tissue Engineering for Pharmaceutical".

SESSION 17 : THEME : 3D VISUALISATION & 3D SIMULATION IN DENTAL & MEDICAL

Topic : " 3D Visualisation & 3D Simulation to benefit Dental & Medical practices"

SESSION 18 : PANEL DISCUSSION

Topic : "Democratizing 3D Technology for Dental & Medical Practitioners for better patient outcomes"

Sub- topic - How to take different steps to democratise 3d technology?

Sub-topic - How to drive business for 3D technology Dental & Medical Start-ups and create Investment opportunities?



3D GRAPHY ENGINEERING & MEDICAL 2023

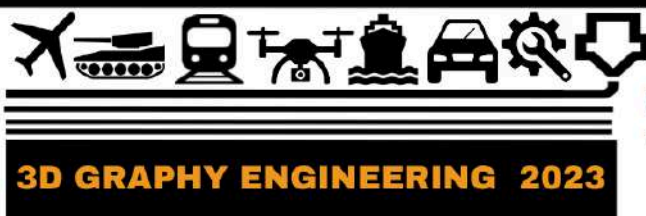
9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium, Powai, Mumbai

CONFERENCE | POSTER PRESENTATIONS | EXHIBITION | AWARDS

POSTER PRESENTATION

PANEL OF JURY MEMBERS - ENGINEERING & INDUSTRIAL MANUFACTURING

	NAMES	DESIGNATION	ORGANISATION / INSTITUTE	SPECIALISATION	CATEGORY
1	Dr. Anil Kumar	Scientist SG & DGM	ISRO	Design & Material Science	ENGINEERING & IM
2	Dr. A Manjunath	Scientist, GTRE	DRDO	Production Engineering	ENGINEERING & IM
3	Dr. Nagahanumaiah	Director	CMTI	3D Printing, Design & Metallurgy	ENGINEERING & IM
4	Dr. Ravi K R	Professor	IIT Jodhpur	3D Printing, Design & Metallurgy	ENGINEERING & IM
5	Dr. Christ Paul	Head Incubation	RRCAT	3D Printing, Design & Metallurgy	ENGINEERING & IM
6	Dr. Sajan Kapil	Asst. Professor	IIT Guwahati	3D Printing, Design & Metallurgy	ENGINEERING & IM
7	Dr. Gopinath Muvval	Professor	IIT Hyderabad	3D Printing, Design & Metallurgy	ENGINEERING & IM
8	Prof. J. Ramkumar	Professor	IIT Kanpur	3D Printing, Design & Metallurgy	ENGINEERING & IM
9	Dr. Kumaraswamy	Dean	DIAT	3D Printing, Engineering and Metallurgy	ENGINEERING & IM
10	Dr. Mahesh Naik	Asst Professor	DIAT	3D Printing, Design & Metallurgy	ENGINEERING & IM
11	Dr. Biranchi Panda	Asst Professor	IIT Guwahati	3D Printing in Construction and Materials	ENGINEERING & IM
12	Dr. S K Asha	Professor	CSIR	3D Printing, Polymer Science & Engineering	ENGINEERING & IM
13	Dr. U Chandrasekhar	CEO	GMSIR	3D Printing, Design & Metallurgy	ENGINEERING & IM
14	Dr. Suyog Jhavar	Asst. Professor	Vellore University, AP	3D Printing, Design & Metallurgy	ENGINEERING & IM
15	Prof. Arun J Kulangara	Asst. Professor	FISAT, Angamaly, Kerala	Design for Additive Manufacturing	ENGINEERING & IM



9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium, Powai, Mumbai

JURY MEMBER PANEL FOR POSTER PRESENTATION AWARDS

Dr. Nagahanumaiah, Director, CMTI	Dr. U Chandrasekhar CEO, GMSIR	Dr. Anil Kumar, Scientist SG & DGM, ISRO	Dr. S. K Asha, Principal Scientist, CSIR	Dr. Kishora Shetty, Associate Technical Fellow, Materials - Boeing	Dr. A Manjunath, Scientist GTRE, DRDO	Dr. Christ Paul, Head Incubation, RRCAT
Dr. Ravi K R, Asst Prof., Material Engg., IIT Jodhpur	Dr. Suyog Jhavar, Asst Professor ME, Vellore University, AP	Dr. Biranchi Panda, Associate Professor IIT Guwahati	Dr. Kumaraswamy Dean, Defence Institute of Advanced Technology	Dr. Sajan Kapil Associate Professor Additive Manufacturing, IIT Guwahati	Dr. Mahesh Naik, Associate Professor AM, Defence Institute of Advanced Technology	Mr. Arun J Kulangara, Associate Professor, AM, FISAT

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3D GRAPHY ENGINEERING & MEDICAL 2023


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CONFERENCE | POSTER PRESENTATIONS | EXHIBITION | AWARDS



POSTER PRESENTATION

PANEL OF JURY MEMBERS - DENTAL & MEDICAL

	NAMES	DESIGNATION	ORGANISATION / INSTITUTE	SPECIALISATION	CATEGORY
1	Dr. Pankaj Goel	HOD, Dental	AIIMS, Bhopal	Dentistry and material Science	DENTAL
2	Dr. Girish Rao	Secretary,	AOMSI	Maxillofacial Surgeon	DENTAL
3	Dr. Navin Thakkar	Secretary,	IOA	Orthopaedic Surgeon	ORTHOPAEDICS
4	Dr. Santanu Dhara	Professor	IIT Kharagpur	Biomaterials, Tissue Engineering	DENTAL & MEDICAL
5	Dr. Kaushik Chatterjee	Professor	IIS, Bengaluru	Biomaterials, Tissue Engineering	DENTAL & MEDICAL
6	Dr. Falguni Pati	Asst. Professor	IIT Hyderabad	Biomaterials, Tissue Engineering	DENTAL & MEDICAL
7	Dr. Y Ravi Kumar	Professor	NIT, Warrangal	3D Printing & Design	DENTAL & MEDICAL
8	Dr. Vaibhav Bagaria	Orthopaedic Surgeon	Sir H N Reliance Foundation Hospital	Hip and Knee Surgeon & 3D printing	ORTHOPAEDICS
9	Dr. John Nesan	Director	CTARS	Maxillofacial Surgeon	DENTAL
10	Dr. Abhijeet Salunke	Consultant, Orthopaedics Oncology	Gujarat Cancer and Research Institute (G.C.R.I.)	Orthopaedic Oncology	ORTHOPAEDICS
11	Dr. Aratatan Patra	National Secretary,	OPAI	Orthotics & Prosthetics	ORTHOTICS & PROSTHETICS
12	Dr. Vikas Jain	Former President	GOA	Orthopaedic Surgeon	ORTHOPAEDICS
13	Dr. Pallab Datta	Asst. Professor	NIPER Kolkata	Biomaterials & Tissue Engineering	PHARMA















3D GRAPHY MEDICAL 2023

9th & 10th December 2023, IIT Bombay, VMCC B Nag Auditorium, Mumbai

JURY MEMBER PANEL FOR POSTER PRESENTATION AWARDS

					
Dr. Girish Rao, General Secy, AOMSI	Dr. Santanu Dhara, Professor in Charge, IPR & IR, Asst. Dean R & DIT Kharagpur	Dr. Aratatan Patra, National Secy, Orthotics & Prosthetics Association	Dr. Pankaj Goel HOD, Dental Surgery, AIIMS Bhopal	Dr. Kaushik Chatterjee, Associate Professor, Indian Institute of Science	Dr. Y Ravi Kumar Professor, NIT Warangal
					
Dr. Vikas Jain Ex-President, Gujarat Orthopaedic Association	Dr. Abhijeet Salunke, Orthopaedic Oncology, Gujarat Cancer Institute	Dr. Vaibhav Bagaria, Hip & Knee Surgeon, Sir H N Reliance Hospital Foundation	Dr. John Nesan, Director, CTARS	Dr. Falguni Pati Associate Professor, IIT Hyderabad	Dr. Pallab Datta, Associate Professor, NIPER Kolkata

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3D GRAPHY ENGINEERING & MEDICAL 2023

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CONFERENCE | POSTER PRESENTATIONS | EXHIBITION | AWARDS

PROCESS: POSTER PRESENTATION PARTICIPATION FOR STUDENTS /NON-STUDENTS (INDIVIDUAL OR ORGANISATION)

1. Call for Poster Presentation starting from **15th June to 15th August 2023**.
2. All the abstracts / draft of the poster to be submitted before **31st August 2023**.
3. Validation and selection of the poster presentation will be done during the period of **1st September to 15th September 2023**
4. Names of the poster presentation selected will be conveyed on or before **30th September 2023**
5. Submissions of poster abstracts can be under students and non-student categories, depending on the presenting author.
6. Submissions of poster abstracts will be under one or both of two themes: "Engineering & Industrial Manufacturing" or "Dental & Medical" on the respective days .i.e. 9th December and 10th December respectively.
7. Poster Presentation Abstract will need to be in PDF uploaded in the Poster Presentation form and a copy can also be emailed to **3dgem2023@gmail.com** as a back up.
8. All selected poster presenters must register as delegates for the conference and present personally.

TERMS & CONDITIONS : POSTER PRESENTATION PARTICIPATION FOR STUDENTS /NON-STUDENTS (INDIVIDUAL OR ORGANISATION)

1. The poster presentation abstract (One A4 page, about 150 words, pdf format, as per style sheet on submission link) to be uploaded by filling your respective google form which will be found at **www.3dgraphy.org** . For details visit the – POSTER PRESENTATION - menu bar to click the tab – POSTER PRESENTATION SUBMISSION for the needful.
2. Title of the Abstract (Times New Roman, Font size 12 Bold, Regular, Centre Text, Line Spacing 1.5 lines)
3. Authors Name (Times New Roman, Font Size 12, Regular, Presenter Name should be underlined, Centre Text, Line Spacing 1.5 lines)
4. 2-3 References should be given at the end of the abstract.
5. Style of the References; Font Size 11, Times New Roman, Justify Text.
6. After filling the online form the Poster Presentation Abstract in PDF format will need to be emailed immediately to 3dgem2023@gmail.com with the mention of the name of the person, Organisation and contact which was similarly filled in the google form found in the poster presentation page of the event website www.3dgraphy.org to tally the form and the Poster Presentation.
7. There can be multiple poster presentations which can be submitted by each participant depending on the expertise of research done in the area of 3D printing, 3D Visualizations, Material science supporting engineering Industrial manufacturing or Dental, Medical and tissue Engineering on Soft and Hard tissues.
8. The delegate seats should be blocked in advance by registration and fee payment to avoid any inconvenience with availability of seats later. Also booking in advance will also benefit the poster presenters to avail of an extra early bird discount which is a standard offer to all the delegate participants for stipulated time and period. More details can be found in the delegate registration section.
9. The presenting author must select category of students or non-student when submitting the abstract for consideration.
10. Students will be required to upload their College / Institute ID (Valid for month of submission of the current year 2023).
11. The presenting author must select theme of "Engineering & Industrial Manufacturing" or "Dental & Medical" on the respective days .i.e. 9th December and 10th December respectively.
12. Selected posters will have to be displayed in A0 size vertical/portrait orientation (approximately 841 mm x 1189 mm, 84.1 cm x 118.9 cm or 33.1 inches x 46.8 inches).
13. Travel and accommodation are to be managed by the student / non-student. It is not included in the registration fees.
14. Timeline for submission and selection is all stated above.
15. Poster Presenter Awards will be awarded to the winners selected by the Jury under two categories student/non-student for the two themes "Engineering & Industrial Manufacturing" and "Dental & Medical" on the respective days .i.e. 9th December and 10th December respectively.



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- DELEGATE REGISTRATION CHARGES -

CATEGORY	DAY ONE FEE	DAY TWO FEE	BOTH THE DAYS FEE
IIT BOMBAY STUDENT	INR 2242	INR 2242	INR 3363
IIT BOMBAY ACADEMIA	INR 3363	INR 3363	INR 5045
STUDENT (Engineering, Dental, Medical, Pharma students) [bring ID to conference]	INR 2360	INR 2360	INR 3540
ACADEMIA - (Faculty, Professors and researchers from Colleges and Institutes)	INR 3540	INR 3540	INR 5310
INDUSTRY – Engineers, Manufacturers, Doctors, Surgeons, 3D technology experts, 3d Printer cos., 3D Scanner cos, 3D Software companies, 3D Designers, Material Cos., Consultants, Entrepreneurs and others	INR 7080	INR 7080	INR 11,210
INTERNATIONAL DELEGATE - 3D technology companies, consultants, researchers and others who are not Indian resident.	USD 125	USD 125	USD 250

The above fee is inclusive 18% GST.

Early bird discounts * offered - Details can be found in the below benefits and terms and conditions *
Students must upload scan copy of student ID card at registration and bring it to conference for verification.



Event managed by:

Trinity Media & Marketing Solutions, The Capital, BKC, Mumbai – 400059

Account details for making the payment for delegate registration.

All payments to be made through NEFT in favour of **Trinity Media & Marketing Solutions**

Bank Name : ICICI Bank

Branch : Tilak Nagar

Beneficiary Name : Trinity Media & Marketing Solutions

Account Number : 121405001598

IFSC CODE : ICIC0001214

MICR CODE: 400229130

ADDRESS : Aniruddha, building 27, shop no 5, 6,7 Near Sahakar Plaza, Tilak Nagar, Mumbai, Maharashtra 400089



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DELEGATE PARTICIPATION BENEFITS WITH TERMS & CONDITIONS

1. Please fill the delegate form with the proper details for booking in your respective category and day plan.
2. Delegates can choose to register for day-1 or day-2 or both.
3. IIT Bombay students and faculty will get a 5% discount on the delegate registration plus the early bird discounts offered (more details to be found in the online registration page of www.3dgraphy.org <https://www.3dgraphy.org/registrationpage.php>)
4. Delegate registration booked on and before 31st August 2023 will get a discount offer of flat 15%.
5. An additional 5% group discount is offered with the above offer to companies and institutes joining with 3 and more numbers on above proposed date.
6. The group discount for 5% will still continue till 1st November 2023 which will be the last date for delegate registrations.
7. Student poster presenters whose poster has been selected will get 10% discount until 15th October 2023 on delegate registration with fee payment. Only student poster presenters will be entitled to this discount.
8. The delegate registration will include tea & coffee with lunch for the days in case of registration made for both the days or for single day as per the registration.
9. Event delegate registration will be confirmed upon the receipt of delegate booking fees only.
10. For Students & delegates from academia, the details of the respective college / institute needs to be shared along with the Identity Card of the current year. Students must upload scan copy of student ID card while filling the registration form and also need to bring the ID card to the conference for verification.
11. For any cancellation and refund policy please visit the Terms and Conditions link <https://www.3dgraphy.org/terms.html>
12. Participants will be acknowledged with a participation certificate for participating in the event.
13. An opportunity will be given to visit the Poster presentation Section, Exhibition booths, and participation in the oral sessions for the respective days registered.
14. There will be networking opportunity with all the speakers, scientists, research experts and 3d technology companies dealing in 3d printers, 3d scanners, 3d software, 3d visualisation and materials in additive manufacturing (AM).

For details visit:

www.3dgraphy.org



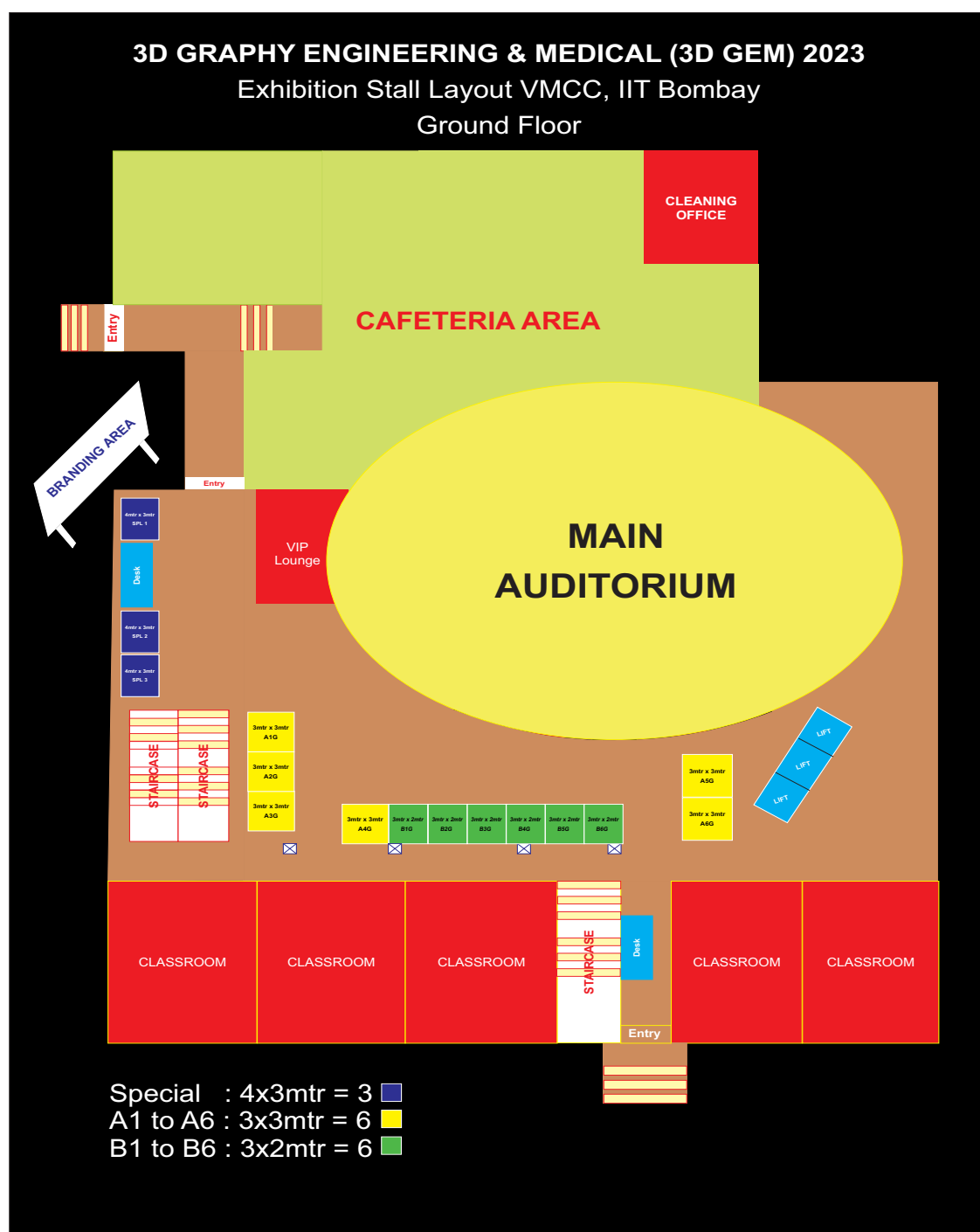
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Event website : www.3dgraphy.org

EXHIBITION STALLS : 3D COMPANIES WILL SHOWCASE LATEST 3D TECHNOLOGIES





3D GRAPHY ENGINEERING & MEDICAL 2023

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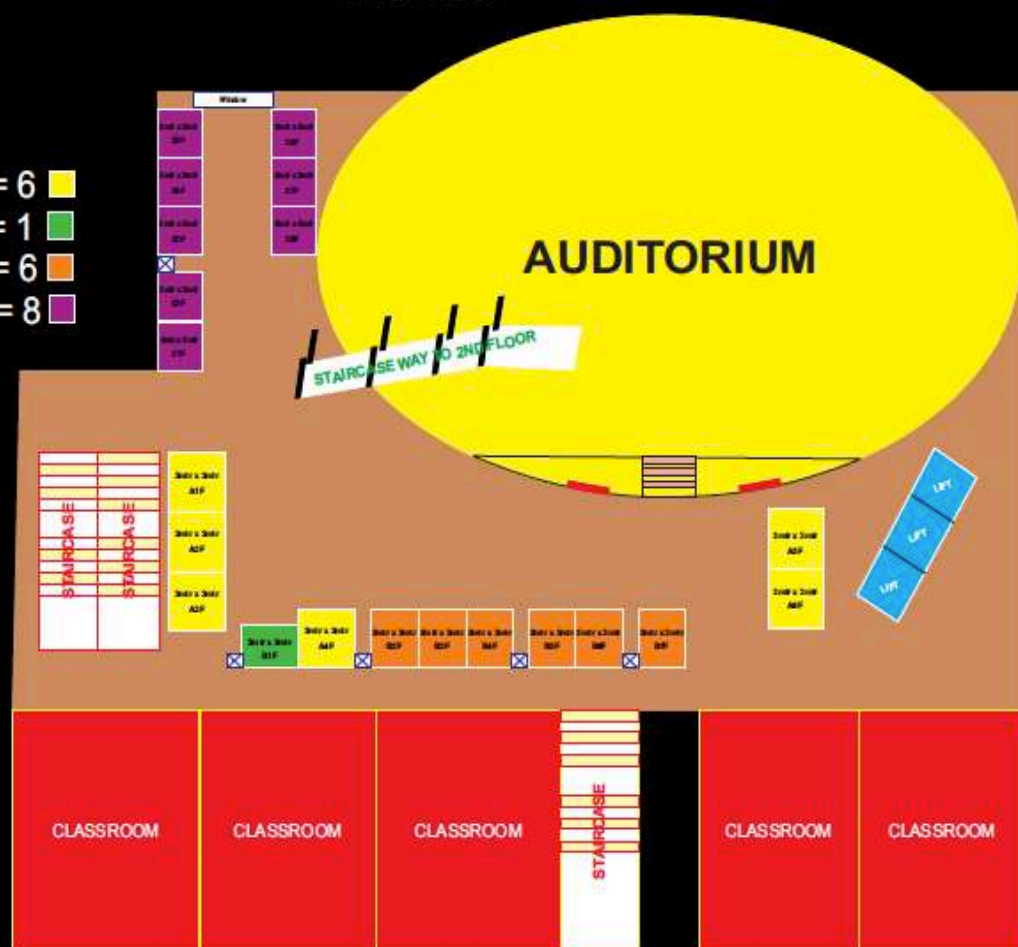
Event website : www.3dgraphy.org

3D GRAPHY ENGINEERING & MEDICAL (3D GEM) 2023

Exhibition Stall Layout VMCC, IIT Bombay

First Floor

A1 to A6 : 3x3mtr = 6 ■
 B1 : 3x2mtr = 1 ■
 B2 to B7 : 2x3mtr = 6 ■
 C1 to C8 : 2x2mtr = 8 ■



Sr. No	Exhibition Stall Size	Number of Stalls	Cost per Sq mtr (INR)	Cost per Sq. mtr (USD)
1	4 x 3 mtr	3	21,000	375
2	3 x 3 mtr	12	21,000	375
3	3 x 2 mtr	12	21,000	375
4	2 x 2 mtr	8	21,000	375

- Above rate is excluding the tax . So there will be an addition of 18% GST.
- The above plain stall options will be available only once the sponsorship option is booked since the stalls are all booked with the sponsorship option as a package. Please visit the sponsors page in the website www.3dgraphy.org



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INDUSTRY ASSOCIATION PARTNER MEMBERS

							
Dr. Shibu John Founder & Secretary, 3DPERA	Dr. Manoj Pawar, President, 3DPERA	Dr. Giridhar Gyani, Director, General, AHPI	Mr. Rajiv Nath Forum Co-ordinator AIMED	Dr. Girish Rao, General Secretary, AOMSI	Dr. Ashok Dhoble, General Secretary, IDA	Dr. Aratran Patra National Secretary, OPAI	Mr. Jaspreet Sidhu, CEO, NCAM
							
Dr. Hemanshu Mehta, President, ISOI	Mr. Sushant Banerjee Vice President, DIMA	Cmde. Sujat Samaddar Founder & Secy. SAMDeSI	Wg. Cdr. Raman Sopory Founder President, ADCAI	Mr. Pulak Sen, Founder & Secy, MROAI	Dr. T.V. Narayana, Founder IPA	Dr. Chandira Sharma, Founder, STERMI	Dr. Narayan Karne Secretary, MOA

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