



9th International Conference on Recent Advances in Composite Materials

We are happy to announce that the International Advisory Committee of International Conference on Recent Advances in Composite Materials (ICRACM) has decided to organize 9th International Conference on Recent Advances in Composite Materials (ICRACM) in Dr. Vishwanath Karad MIT World Peace University Pune, India. It will be jointly organized by Dr. Vishwanath Karad MIT World Peace University Pune, India and IIT(BHU) Varanasi, and will be hosted by Department of Mechanical Engineering, Dr. Vishwanath Karad MIT World Peace University Pune, India from 21st February to 24th February 2028. ICRACM has established itself as a reputed academic platform dedicated to fostering research and innovation in the field of composite materials and related technologies. Since its inception in 2004 at Banaras Hindu University, Varanasi, the conference has served as a confluence for researchers, academicians, and industry professionals to share advancements, explore challenges, and discuss emerging trends in composite materials considering its aspects of materials science, manufacturing, and engineering applications.

The first edition of ICRACM was organized in December 2004 at Banaras Hindu University Varanasi marking the beginning of a collaborative effort to promote interdisciplinary research in advanced composite materials. Subsequent editions have been successfully conducted at regular intervals (i.e., 2nd ICRACM held at India Habitat Centre, New Delhi, India in February 2007, 3rd ICRACM held at Limoges University, Limoges, France in December 2010, 4th ICRACM held at International Centre, Goa, India in February 2013, 5th ICRACM held at KL University, Vijayawada, Guntur, AP, India in February 2017, 6th ICRACM held at IIT (BHU) Varanasi in February 2019, 7th ICRACM (jointly organized by ITA, RWTH Aachen University, Aachen, Germany and CVV Institute of Science & Technology, Kochi, Kerala) held at CVV Kerala in February 2023), 8th ICRACM held at IIT(BHU) Varanasi in December 2025, each witnessing a steady increase in participation from national and international delegates. Over the years, the conference has featured keynote lectures from eminent scientists, peer-reviewed paper presentations, and panel discussions highlighting innovations in composite fabrication, characterization, and applications in various engineering sectors.

Through its continuous progression up to the 8th edition, ICRACM has built a strong academic legacy, contributing significantly to global research dissemination and academic networking. The conference proceedings and associated publications have provided valuable references for ongoing research and technological development in the domain of composite materials and allied fields.

Continuing the legacy of ICRACM, its 9th edition will be hosted by Dr. Vishwanath Karad MIT World Peace University from 21st February to 24th February 2028.



ANNOUNCEMENT

I, as Founder, President and Chairman of International Conference on Recent Advances in Composite Materials (ICRACM) series wish to put on record my grateful thanks to the entire participants who have shown their keen interest in the theme of the conference. Since, advanced composites are enabling materials for a number of demanding energy efficient and eco-friendly applications in aerospace, power generation, and ground transportation, nuclear and chemical industries. These materials have unique properties such as high strength, high stiffness, long fatigue life, low density, and adaptability to the intended functions. Significant achievements have been made worldwide in the design, development, manufacturing, and application of these materials in recent years and considerable innovative research is still continuing to address technical and economic challenges.

The worldwide participation and recognition led to grand success of the each series of International Conference on Recent Advances in Composite Materials (ICRACM), which were held at various places; ICRACM-2004 held at BHU, Varanasi, India in December 2004. ICRACM-2007 held at India Habitat Centre, New Delhi, India in February 2007. ICRACM-2010 held at Limoges University, Limoges, France in December 2010. ICRACM-2013 held at International Centre, Goa, India in February 2013. ICRACM-2016 has been organized at KL University, Vijayawada, Guntur, AP, India from 6-8th February 2017 under the Chairmanship of Prof. B. Nageswara Rao. Sixth International Conference on Recent Advances in Composite Materials (ICRACM-2019) was organized at Swatantrata Bhavan, BHU, IIT (BHU), Varanasi from February 25-28, 2019. More than 300 delegates from India and abroad were presented their expert lectures during technical session of ICRACM-2019 conference. The major goal of ICRACM series are to bring academicians and researchers together in various disciplines from all over the world to share knowledge and exchange their views leading to industrial applications of composite materials. Most of the ICRACM series have been supported by AOARD-AFOSR, Roppongi, Tokyo, Japan and GONR, Singapore due to unique dimension and significance demands in composite community. These supports are predicted on the belief that scientific and technical advances are strongly promoted by direct interactions among a diverse set of researchers and technologists. Finally, I am very



Dr. Vishwanath Karad
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TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS

grateful to all of my friends, who have joined the ICRACM-2004, ICRACM-2007, ICRACM-2010, ICRACM-2013, ICRACM-2016 and ICRACM-2019, ICRACM-2023, ICRACM-2025 conferences and presented their composite experiences for the benefits of young composite researchers after travelling long distances from all around the globe. I shall be highly obliged their kind supports for the grand success of ICRACM series. Also, organizing committee is gratefully acknowledging financial support of Director/ Manager, AOARD-AFOSR, Tokyo, Japan, ONR, Singapore and president European Ceramic Society to organize ICRACM Series for the academic benefits and interaction of composite researchers all over the world.

It is planned to organize 9th series at Dr. Vishwanath Karad MIT World Peace University, Pune from February 21-24, 2028.

Founder President ICRACM Series

ICRACM

The use of composite materials is not new to mankind but tailoring its properties for specific applications is still a challenge. Composite materials have unique advantages over monolithic materials, such as high specific strength and stiffness, long fatigue life, and adaptability to the intended function of the structure. Significant achievements have been made in the design and development of composites for various applications but critical applications still require proper selection and design of composite materials. Considerable innovative research is still continuing for the development of continuous fibre composites and particulate composites. Moreover, structural requirements demand ultimate and reliable composite material performance to react to global static and dynamic external and component loads. Therefore, ICRACM conference series aims and known to bring together academicians and researchers in various disciplines to share knowledge, and exchange views for useful industrial applications of composite materials. The conference will facilitate discussion on the latest trends in the entire gamut of composite materials. The deliberations will certainly be helping researchers for embarking upon newer aspects of design and development of various types of composites.

Conference Topics

The conference will broadly cover the following topics:

- Advance Fibre composites, Textile engineering
- Wood composites
- Metal matrix composites
- Ceramic composites and advanced ceramics
- Nanomaterials and nano-composites
- Biomaterials and bio-composites
- Recycling & repair technology in composites
- Recent developments in fibre and particulate composites for structural and tribological applications (Fracture, Fatigue, Impact, Wear & Friction, Environmental studies)
- Critical issues in composites (Interfaces, processing, applications and manufacturing)
- Testing & quality control of composites
- Composites in intelligent and sustainable civil structure
- Application of composites in low-cost houses and bridges
- Composite Technology – Industrial Applications

Eminent scientists and engineers from all over world will deliver their expert lectures on above topics.

Publication and Fees

The papers presented in the conference will be considered for publication in the international journals (Polymer Composites, Composite Part A, and Materials Today: Proceedings) after the presentation of delegates and peer review by concerned experts of the subjects. The authors who wish to publish their papers in the said journals need to pay the 6000 INR/- extra along with the registration fees (written later). Note that papers will be published in the journals only after peer review process and acceptance, and after paying publication fees.

ICRACM Best Paper Awards

The ICRACM conference will honor outstanding research contributions with Best Paper Awards during the valedictory session. These awards will be presented to authors whose work exemplifies pioneering advancements and impactful innovation in their respective domains. By celebrating these exceptional papers, ICRACM underscores the theoretical and practical breakthroughs poised to influence the future of composite materials.

Awards will be considered in the following categories:

- (a) Textile and Composites
- (b) Ceramic and Metal Matrix Composites (MMC)
- (c) Nanocomposites and Bio composites

All conference papers submitted for review to the publication in Journals are eligible for the award. Papers are subjected to the review process, and final lists are determined by composite review committee. The award winner is selected by a committee designated by the Chair of the Governing Board. The committee determines the winner to be announced during the conference. Decisions are based on the following criteria:

- Soundness of the conceptual development
- Originality and new contribution(s)
- Appropriate methodology well be applied
- Relevance to management practice
- Effective communication of the central ideas of the work

Benefits

- Recipients will be given a (Euro 200) honorarium, an award plaque and certificate.
- Papers that are accepted for publication through the review process will appear in a high impact international journals after peer reviewed process.



Deadlines

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| Submission of Abstract | : 20 FEBRUARY 2027 |
| Acceptance of Abstract | : 20 JULY 2027 |
| Submission of Full-Length Paper as per Journal Format | : 20 AUGUST 2027 |

Registration Fees

Before Deadline

| | |
|-------------------|--|
| Foreign Delegates | <ul style="list-style-type: none">• 500 USD for Faculties/Researchers• 300 USD for Students |
| Indian Delegates | <ul style="list-style-type: none">• 6000 INR for Faculties/Researchers• 5000 INR for Students |

After Deadline

| | |
|-------------------|--|
| Foreign Delegates | <ul style="list-style-type: none">• 600 USD for Faculties/Researchers• 400 USD for Students |
| Indian Delegates | <ul style="list-style-type: none">• 7000 INR for Faculties/Researchers• 6000 INR for Students |

*Conference Fees Covers Proceedings, Tea, Lunches and Banquet.

Sponsorships & Advertisements

Sponsorship tariffs are given below:

Industries: 10000 INR/-

Academic Institutions: 5000 INR/-

The sponsors can nominate four delegates free of charge. Also, advertisements in souvenir will be published at the cost of 5000 INR/- (back full page), 2000 INR/- (inside full page) and 1000 INR/- (half page).

Registration fees, sponsorship fees and advertisement tariff are to be sent by means of Cheque/Demand Draft payable at IIT(BHU), Varanasi drawn in the favour of "CHAIRMAN-ICRACM-2025".

Accommodation

Delegates are advised to book accommodation through any government-authorized travel agent or by own in hotels/motels near by the conference venue. Organizer will not able to provide any type of accommodation during the conference period.

International Advisory Board:

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|----------------------------------|--|
| Prof. Thomas Gries | ITA, RWTH, Aachen University, Aachen, Germany. |
| Prof. Sabu Thomas | Mahatma Gandhi University, Kottayam, Kerala, India |
| Prof. Ramesh Talreja | Texas A&M University., Texas, USA |
| Prof. Antonio Pizzi | LERMAB-ENSTIB, University of Lorraine, France |
| Prof. C. Soutis | University of Manchester, Manchester, UK |
| Prof. Nemkumar Banthia | University of British Columbia, Vancouver, Canada |
| Prof. Walter Krenkel | University of Bayreuth, Bayreuth, Germany |
| Prof. Y. G. Jung | Changwon National University, South Korea |
| Prof. Karl Maile | MPA, University of Stuttgart, Stuttgart, Germany |
| Prof. Ulrich Gabbert | Otto-von-Guericke University, Magdeburg, Germany |
| Prof. Vadim Silberschmidt | Loughborough University, Loughborough, UK |
| Prof. F. Aymerich | University of Cagliari, Cagliari, Italy |
| Prof. James Busfield | Queen Mary University of London, UK |
| Prof. Rajiv Asthana | University of Wisconsin-Stout, USA |
| Prof. S. V. Hoa | Concordia University, Quebec, Canada |
| Prof. I. M. Reaney | University of Sheffield, UK |
| Prof. Elizabeth Tanner | University of Glasgow, UK |

International Scientific Committee:

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|------------------------------------|---|
| Prof. Aldo R. Boccaccini | Friedrich Alexander University, Erlangen, Germany |
| Prof. Christopher C. Berndt | Swinburne University of Technology, Victoria, Australia |
| Prof. Chis Bowen | University of Bath, UK |
| Prof. Rajiv Asthana | University of Wisconsin-Stout, USA |
| Dr. Ajit K. Roy | Airforce Research Lab., USA |
| Prof. Michael Scheffler | Otto-von-Guericke University, Magdeburg, Germany |
| Dr. T. Ohji | Toyama University, Nagoya, Japan |
| Prof. Wilfried Becker | Technical University, Dramstadt, Germany |
| Prof. Alessandro Pegoretti | Trento University, Trento, Italy |
| Prof. Bronwyn Fox | Swinburne University of Technology, Victoria, Australia |
| Prof. Mario Ferreira | University of Aveiro, Portugal |
| Prof. Xungai Wang | IFM, Deakin University, Geelong, Australia. |
| Prof. Paul J. Hogg. | Royal Holloway University, London. UK |



Organizing Committee

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|---------------------------------------|---|
| Prof. Vijay Kumar Srivastava | Founder President and Chairman (ICRACM), Retired Professor (HAG), IIT(BHU) Varanasi |
| Prof. Valter Carvelli | ICRACM chairman of European Countries, Professor, Politecnico di Milano, Milan, Italy |
| Prof. Dr. Shivprakash B. Barve | Program Director and Professor, MITWPU Pune |
| Dr. Parshant Kumar | Assistant Professor, MITWPU Pune |

The detailed list of organizing committee will be updated later.

Past Publications

The conference proceedings will be published as a fully peer reviewed volume of advances in composite materials. The papers without presentation / discussion in conference and registration fees will not be included in the conference proceedings. The details of publishing houses that have brought out the proceedings of ICRACM-2004 and ICRACM-2007 conference papers are given below:

ICRACM-2004

- Recent Advances in Composite Materials (Edited by V. K. Srivastava and M. Singh), Allied Publishers Pvt. Ltd., New Delhi, 2004, p. 1-562.
- International Conference on Recent Advances in Composite Materials (Edited by V. K. Srivastava, M. Singh and G. Kotorz), Special Issue of Materials Science & Engineering - A, Elsevier Publisher, UK, 412, 1-2, December 2005, p. 1-348.

Supported by: AOARD-AFOSR, Tokyo and ONR, Singapore.

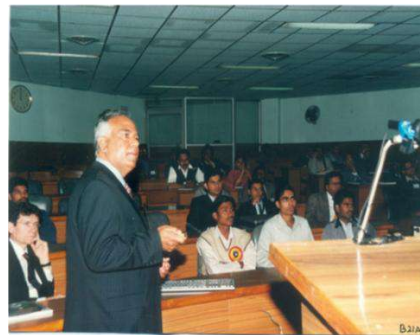
ICRACM-2007

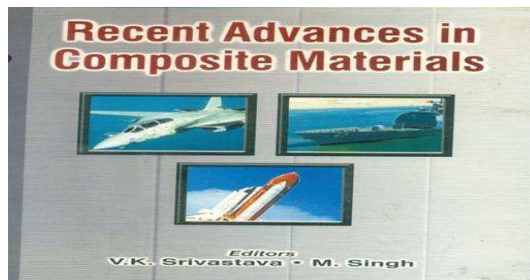
- Recent Advances in Composite Materials: Intelligent smart sustainable and infrastructural materials (Edited by V. K. Srivastava, M. Singh, A. Banthia and A.A Mufti), Allied Publishers Pvt. Ltd., New Delhi, 2007, p. 1-1118.
- International Conference on Recent Advances in Composite Materials (Edited by V. K. Srivastava, M. Singh, R. Asthana and G. Kotorz), Special Issue of Materials Science & Engineering -A, Elsevier Publisher, UK, 498, 1-2, December, 2008, p. 1-514.

Supported by: AOARD-AFOSR, Tokyo and ONR, Singapore.

Some glimpses of past ICRACM conferences

ICRACM-2004 (Banaras Hindu University, Varanasi, India)





ICRACM-2007 (India Habitat Centre, New Delhi, India)



ICRACM-2010 (Limoges University, Limoges, France)



ICRACM-2013 (International Centre Goa, India)



ICRACM 2017 (jointly organized by IIT(BHU) Varanasi and KL University, Guntur, India in KL University, India)



ICRACM 2019 (IIT(BHU), Varanasi, India)



ICRACM 2023 (jointly organized by ITA, RWTH Germany and CVV Kerala in CVV Kerala)




KEYNOTE SPEAKER

Chinmaya Vishwa Vidyapeeth
Deemed to be University
ERNAKULAM | PUNE

(ICRACM - 2024)
7th International Conference on Recent Advances in Composite Materials

Day 1
12 December 2024, Thursday
04:00 PM - 04:45 PM



Adjustment of surface properties of polymer composites by treatment with gaseous plasma

Prof. Miran Mozetic
Department of Surface Engineering,
Ruđer Bošković Institute, Zagreb


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KEYNOTE SPEAKER

Chinmaya Vishwa Vidyapeeth
Deemed to be University
ERNAKULAM | PUNE

(ICRACM - 2024)
7th International Conference on Recent Advances in Composite Materials

Day 1
12 December 2024, Thursday
02:00 PM - 02:45 PM



Functional interphases for structural composites

Prof. Alessandro Pegoretti
Department of Industrial Engineering,
Trento University, Trento, Italy


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KEYNOTE SPEAKER

Chinmaya Vishwa Vidyapeeth
Deemed to be University
ERNAKULAM | PUNE

(ICRACM - 2024)
7th International Conference on Recent Advances in Composite Materials

Day 2
13 December 2024, Friday
09:30 AM - 10:15 AM



Breakthroughs in the Modeling and Simulation of Shell Structures with Emphasis on Aerospace and Marine Composites

Prof. Yuri Bazilevs
F. Roca-Soriano Professor of Engineering, Co-Director of the Mechanics of Unbounded Science and Engineering Center, School of Engineering, Brown University, USA


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KEYNOTE SPEAKER

Chinmaya Vishwa Vidyapeeth
Deemed to be University
ERNAKULAM | PUNE

(ICRACM - 2024)
7th International Conference on Recent Advances in Composite Materials

Day 2
13 December 2024, Friday
03:00 PM - 03:45 PM



All-carbon hybrid laminates: Tensile behaviour and Numerical modelling

Prof. Valter Carvelli
Department of Architecture and Built Environment and Construction Engineering, Politecnico di Milano, Italy

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KEYNOTE SPEAKER

Chinmaya Vishwa Vidyapeeth
Deemed to be University
ERNAKULAM | PUNE

(ICRACM - 2024)
7th International Conference on Recent Advances in Composite Materials

Day 3
14 December 2024, Saturday
10:30 AM - 11:15 AM



Tissue engineering challenges and promises

Dr. Robin Augustine
Department of Radiology, Stanford Medicine,
Stanford University, Palo Alto, CA

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KEYNOTE SPEAKER

Chinmaya Vishwa Vidyapeeth
Deemed to be University
ERNAKULAM | PUNE

(ICRACM - 2024)
7th International Conference on Recent Advances in Composite Materials

Day 1
12 December 2024, Thursday
11:00 AM - 11:45 AM



Role of Indian Knowledge Systems (IKS) in the development of composite materials

Prof. Sunitha Grandhee
(Dean, Life Long Learning & Wellness)
Director, Center for Assured Indian Knowledge Systems,
Chinmaya Vishwa Vidyapeeth, Ernakulam, Kerala - 682313, India

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ICRACM 2025 (IIT(BHU), Varanasi, India)

