

$$\frac{1212}{1.54}$$

حجة حبيبية وبعد .....

ر ج د : "فصل بالغه والتوجيه بالتخاريف اللزوم لغير الاعاين عن هذا المؤتمر بكنيتكم  
المؤثرة وعلى السادة راغبى المشاركة الدخول على :

وَنَقُصُّ بِحُجَّتِهِ وَأَشْرَافِهِ

١٠٠ / طَبَرَقْ غُلُوشْ

١٠٩٩

1/100

السيد الأستاذ الدكتور / شريف يوسف خاضر  
رئيس جامعة المنصورة

تحية طيبة وبعد ،،،

أتشرف بالافادة بأن مركز بحوث وتطوير الفلزات - التابع لوزارة التعليم العالي والبحث العلمي - كجبة رائدة في مجال علوم المواد وتكنولوجيا التصنيع ، سرف يقوم بتنظيم المؤتمر الاقليمي الرابع لعلوم المواد وتكنولوجيا التصنيع:

"MATERIALS SCIENCE AND MANUFACTURING TECHNOLOGY"

وذلك خلال الفترة ٢٧-٢٥ نوفمبر ٢٠٢٥م بفندق سوفيتيل القاهرة تحت رعاية السيد الأستاذ الدكتور: محمد أيمن عاشور - وزير التعليم العالي والبحث العلمي - وسوف يناقش المؤتمر موضوعات علمية وتكنولوجية مهمة تشمل استخلاص الخامات ومعالجتها ، المتراكبات ، المواد الالكترونية والمغناطيسية . مواد تخزين الطاقة ، تكنولوجيا النانو ، تكنولوجيا التصنيع المختلفة كالسبائك والناح و التصنيع ثلاثي الأبعاد وميتانورجيا المساحيق ، تشغيل المواد بالليزر ، الاصلاح باللاحام والاختبارات غير الاتلافية وتحليل أسباب الانهيارات لمعدات المصانع.

وتوصول بهذا المؤتمر للمستوى الالاق فاننا نتطلع لمشاركة سيادتكم بمحاضرة شاملة خلال الجلسة الافتتاحية للمؤتمر وكذلك مشاركة واسعة في فعاليات المؤتمر من السادة أعضاء هيئة البحوث و طلبة الدراسات العليا بالمركز ، وذلك لاثرائه وتعظيم الاستفادة من تبادل المعرفة والخبرة بين المشاركين بالمؤتمر من مناطق مختلفة من العالم وبالتالي المساهمة في بناء / تطوير القدرات البشرية وانتي تعتبر العمود الفقري لتطوير المجتمع.

Conference website: [www.cmrdisci.org/2025.htm](http://www.cmrdisci.org/2025.htm)

مرفق استمارة التسجيل بالمؤتمر ، ٣ نسخ من بروشور المؤتمر.

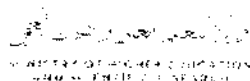
وتفضلوا سيادتكم بقبول فائق الاحترام والتقدير ،،،

القائم بأعمال رئيس المركز  
رئيس اللجنة المنظمة للمؤتمر

أ.د/ إبراهيم محمد غياض

٢٠٢٥/٩/٩م

٥٢٨٤  
٥٧٩٩



---

## 4<sup>TH</sup> REGIONAL CONFERENCE

ON

MATERIALS SCIENCE AND MANUFACTURING TECHNOLOGY  
JOINTLY WITH

THE 39<sup>TH</sup> Eg-MRS INTERNATIONAL CONFERENCE ON  
MATERIALS SCIENCE AND ITS APPLICATIONS

November 25-27, 2025 - Cairo, Egypt

[www.msmtegypt2025.org](http://www.msmtegypt2025.org)

[conf2025@cmrdi.sci.eg](mailto:conf2025@cmrdi.sci.eg)

---

### Registration Form

Please fill all fields in the form

Name :

Title : Prof. Dr. Eng. Mr. Ms.

Position :

Institution :

Country :

Email :

Type of Participation : Presentation Attendance

Title of Presentation :

<https://www.msmtegypt2025.org/registration.html>

## GENERAL INFORMATION

The conference on Materials Science and Manufacturing Technology (MSMT) and the 39<sup>th</sup> Eg-MRS International Conference on Materials Science and its Applications are being held annually. The aim is to bring together scientists, researchers and industry engineers to review and discuss advances in the development of methods and approaches on materials science and manufacturing technology. This provides a forum for scientists, researchers and engineers to present their accomplishments and to develop new ideas at the highest level. In other words, this provides a forum for networking, knowledge and experience exchange among scientists, researchers and industry engineers as well as disseminating leading-edge information and best practices. Conferences have an important role to play in the technology transfer, especially in terms of the relationships to be established between the participants, and the informal exchange of ideas that this event offers. It is a hybrid conference combines in-person and virtual attendance. The presence of this event in the historic Cairo offers an opportunity that must be taken.

## CONFERENCE HIGHLIGHTS

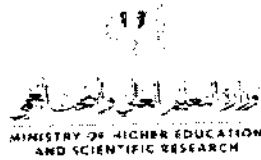
This conference on Materials Science and Manufacturing Technology (MSMT) will link the worlds of academia and industry for an outstanding exchange of authoritative research, technical applications, and novel solutions in the metals and materials manufacturing fields. The conference will focus on all aspects of materials properties and processing, conventional and advanced manufacturing technologies, failure analysis and structural integrity with the objective of improving the safety and performance of engineering structures, components and their associated materials. Through presentations of scientific research, plenary and technical sessions, programmed as well as impromptu discussions, and an exhibition of today's latest product and service solutions, the researchers, scientists and engineers will gain useful knowledge and experience to advance their work.

## CONFERENCE TOPICS

The conference includes both oral and poster presentations covering academic and technical aspects of, but are not limited to, the following topics:

- Minerals Characterization, Beneficiation and Agglomeration
- Chemical and Electro Processing
- Pyro-Metallurgical Processing
- Steel Technology
- Plastic Deformation Processes
- Properties & Performance of Steels
- Non-ferrous Alloys
- Refractories and Ceramic Materials
- Composite Materials
- Electronic and Magnetic Materials
- Nano Materials and Nano Technology
- Glass Technologies
- Modelling of Metallurgical Processes
- Energy Production and Storage
- Green Technologies
- Water Treatment
- Advanced Digital Manufacturing
- Laser Materials Processing (Cutting, Welding...)
- Environmental Science and Engineering
- Powder Technology
- Metal Casting
- Welding Technology
- Failure Analysis
- Corrosion and Surface Modification
- Preventive and Emergency Maintenance of Plant Equipment
- AI for Materials Engineering

## CALL FOR PAPERS



### 4<sup>TH</sup> REGIONAL CONFERENCE ON

### MATERIALS SCIENCE AND MANUFACTURING TECHNOLOGY JOINTLY WITH THE 39<sup>TH</sup> Eg-MRS INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE AND ITS APPLICATIONS

November 25-27, 2025 - Cairo, Egypt

[www.msmtegypt2025.org](http://www.msmtegypt2025.org)

[conf2025@cmrdi.sci.eg](mailto:conf2025@cmrdi.sci.eg)



Pyramids & Great Museum, Giza

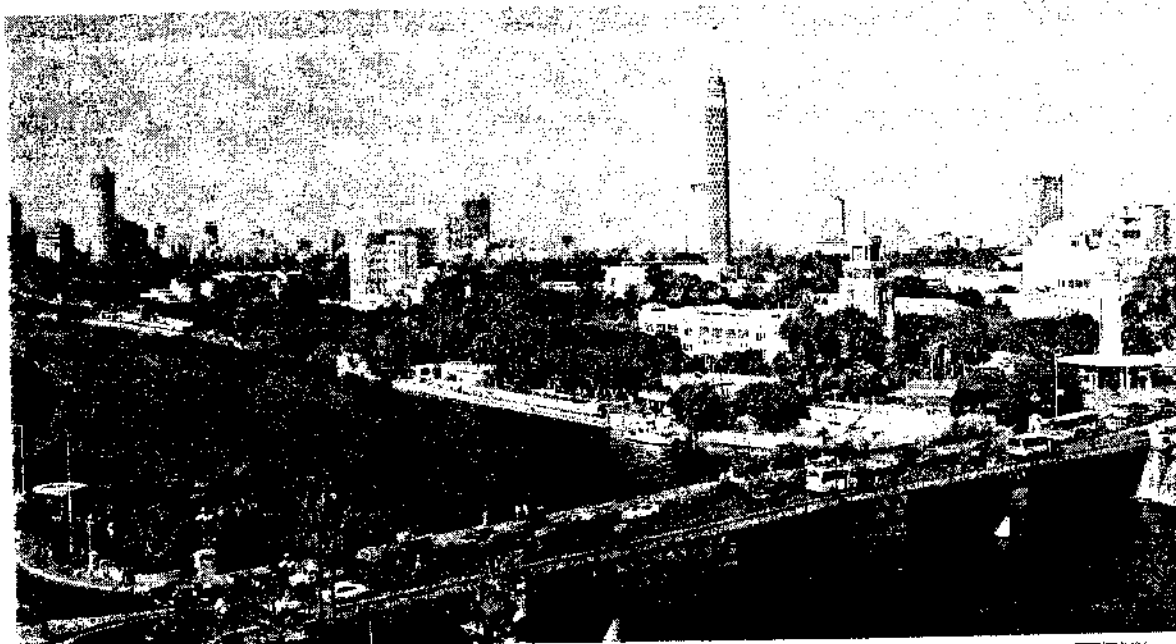


Islamic & Coptic Culture, Cairo

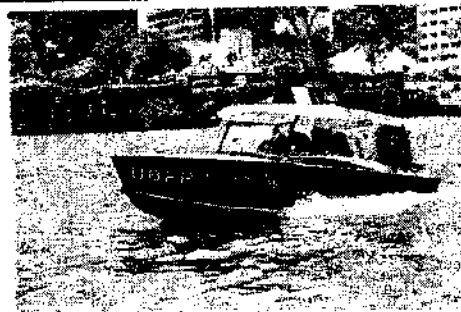


Organized by  
Central Metallurgical Research and Development Institute (CMRDI)  
Co-Organizer  
The Egyptian Materials Research Society (Eg-MRS)

**VENUE** - The conference will be held in Cairo



Cairo is most famous for containing the famous **Giza Pyramids Complex** that holds one of the Seven Wonders of the World the Great Pyramid of King Khufu, the world's oldest and biggest statue the Sphinx and the house of mummification the Valley temple. There's a unique blend of **Islamic, Coptic, and ancient** Egyptian history in Cairo, leaving visitors with a plethora of options to explore every day.



## IMPORTANT DATES

- |                                          |                    |
|------------------------------------------|--------------------|
| • Submission Deadline for Abstract       | September 30, 2025 |
| • Notification of Acceptance of Abstract | October 7, 2025    |
| • Submission Deadline for Full Paper     | October 25, 2025   |
| • Notification of Acceptance of Paper    | October 31, 2025   |

Papers should have a maximum of 10 pages including figures and tables (typed single spaced on 8.5x11 sheets, single column, Times New Roman 12 font, to be sent through the conference website or by e-mail: [conf2025@cmrdi.sci.eg](mailto:conf2025@cmrdi.sci.eg)

## PUBLICATIONS

The conference proceedings will be published, upon the authors' request, as a special issue/edition of the open access International Journal of Materials Technology and Innovation (IJMTI). In this case, please submit your manuscript directly to the journal website (<https://ijmti.journals.ekb.eg>) and select "Special Issue". In case, please contact the editorial manager Prof. Shimaa El-Hadad, [shimaam@yahoo.com](mailto:shimaam@yahoo.com). Article Processing Charges (APC) are covered by the conference registration fees.

## CONFERENCE LANGUAGE

English

## SOCIAL PROGRAM / WIDE VARIETY OF HOTELS

- Optional pre-/post conference trips will be arranged during the conference.

## REGISTRATION FEES

| Date/ Registration Fees Participant          | Until September 30, 2025 | After September 30, 2025 |
|----------------------------------------------|--------------------------|--------------------------|
| Accompanying Person* / Undergraduate Student | \$500                    | \$600                    |
| Academia (Egyptian)                          | \$250                    | \$300                    |
| Student (Egyptian)                           | 3500 L.E                 | 4500 L.E                 |
| Company/Private Academia                     | 2000 L.E                 | 2500 L.E                 |
|                                              | 6500 L.E                 | 7500 L.E                 |

Registration fees, for participants, include:

- 1- Admission to all conference sessions and commercial exhibition
  - 2- Conference bag including relevant materials
  - 3- Soft copies of abstracts, full papers and conference program
  - 4- Reception dinner, 2 Lunches, coffee/tea breaks.
  - 7- Conference Sightseeing program to attractive places in Giza (Pyramids, Sphinx, Step Pyramid).
- \* Registration fees for accompanying person include lunches, reception dinner, and conference Banquet.
  - Payment to be made by bank transfer to Central Bank of Egypt:  
Swift: CBE GEG CXXX AC: 4082176000 (USD)  
AC: 9/450/81641/8 (EGP)
  - Account Name Holder: Central Metallurgical Research and Development Institute (CMRDI)
  - EXHIBITION of related activities will take place at the conference site; \$2000 for 4m<sup>2</sup> area.

## ORGANIZING COMMITTEE

**Chairperson:** Prof. Ibrahim Ghayad

**Acting President of CMRDI, Ministry of Higher Education & Scientific Research, Cairo, Egypt**

Phone: +20 101 160 7288 Email: ighayad@cmrdi.sci.eg

### Members:

- Prof. Abdel-Monem El-Batahgy, CMRDI
- Prof. Saeed Ghali, CMRDI
- Eng. Mahmoud Taha, Ezz Steel
- Prof. Hossam Halfa, CMRDI
- Dr. Ayat El-Shazly, CMRDI
- Mrs. Nada Abdel-Hakim, CMRDI
- Mr. Abdalla Shawky, CMRDI
- Prof. Mohamed Rashad, CMRDI
- Prof. Osama Fouad, CMRDI
- Prof. Shimaa El-Hadad, CMRDI
- Dr. Dina Magdy, CMRDI
- Ms. Amina Ibrahim, CMRDI
- Mr. Khalid Moharam, CMRDI

## SCIENTIFIC COMMITTEE

|                                                    |                                             |
|----------------------------------------------------|---------------------------------------------|
| Prof. Ibrahim Ahmed, CMRDI                         | Prof. Kamilia El-Barawy, CMRDI              |
| Prof. Gad El-Kady (Egypt)                          | Prof. Khaled Abdel-Ghany, CMRDI             |
| Prof. Esam Ahmed, Suez University                  | Prof. Eman ElMahalawi, Cairo University     |
| Prof. Mohamed Hussein, TIMS                        | Prof. Hatem Morad (Canada)                  |
| Prof. Sulaiman W. Harun (Malaysia)                 | Prof. Ahmed Alrassis (Syria)                |
| Prof. Omyma El-Kady, CMRDI                         | Prof. Taher El-Bitar, CMRDI                 |
| Prof. Mohamed Bassyouni (Egypt)                    | Prof. Jala El-Azab, NILES, Cairo University |
| Prof. Thomas Ochuku Mbuya, (Kenya)                 | Prof. Mohamed El-Zomor, TIMS                |
| Prof. Zeinab Abdel-Hamid, CMRDI                    | Prof. Mamdouh Eisa, CMRDI                   |
| Prof. Emad Elgallad, (Canada)                      | Prof. Zahraa El-Baradei, CMRDI              |
| Prof. Nagui Abdel-Khalek, CMRDI                    | Dr. Cameron Shearer (Australia)             |
| Prof. Sameh Khafagy, TIMS                          | Dr. Francesca Pagnanelli (Italy)            |
| Prof. Atef Younan, CMRDI                           | Prof. Khaled Ibrahim, CMRDI                 |
| Prof. Ahmed Abdel-Aziz, GUC                        | Prof. Nader El-Bagoury, CMRDI               |
| Dr. Yang He (China)                                | Prof. Atef Shenouda, CMRDI                  |
| Prof. Khaled Hafez, CMRDI                          | Prof. Mervat Saied, CMRDI                   |
| Dr. Deblina Dutta (India)                          | Prof. Mohamed El-Nagar, Suez University     |
| Prof. Sherif Zein Alabdeen, NRC                    | Prof. Mohsen Farahat, CMRDI                 |
| Prof. Rabeay Younus, Zewail City of Sci & Technol. | Prof. Nageh Allam, AUC                      |
| Prof. Hamed Abdel-Aleem, CMRDI                     | Assoc. Prof. Ayman Elsayed, CMRDI           |

## INTERNATIONAL ADVISORY BOARD

|                                 |                                     |                                   |
|---------------------------------|-------------------------------------|-----------------------------------|
| Prof. Adel Nofal (Egypt)        | Prof. Maher Younan (Egypt)          | Prof. Bahaa Zaghloul (Egypt)      |
| Prof. Ashok Saxena (USA)        | Prof. Yoshimi Watanabe (Japan)      | Prof. Kamal Sharobim (Egypt)      |
| Prof. Adel Kamal (Egypt)        | Dr. Bikash Routh (India)            | Prof. Franco Medici (Italy)       |
| Prof. Samy El-Shall (USA)       | Prof. Kochanski Andrzej (Poland)    | Prof. Jeyraj Selvaraj (Malaysia)  |
| Prof. Claudio Ruggieri (Brazil) | Prof. Faisal Al-Abdali (Libya)      | Prof. Mohamed Saada, (Egypt)      |
| Prof. Mona Abdel-Lateef (Egypt) | Prof. Emad Ewais (Egypt)            | Prof. Marwan Khraisheh (Qatar)    |
| Prof. Charles Kwesiga (Uganda)  | Prof. Moataz Attallah (UK)          | Prof. Mahmoud Ramzy (Egypt)       |
| Prof. Hussein Darwish (Egypt)   | Prof. M. Azizi Mat Yajid (Malaysia) | Prof. Jianhua Liu (China)         |
| Prof. Mohamed Gamal (Egypt)     | Prof. Taha Tawfeek (Egypt)          | Prof. Shereen Abdel-Kader (Egypt) |
| Prof. Waeil Khansa (Syria)      | Prof. A. Sedmak (Serbia)            | Eng. Emad Assaad (Canada)         |
| Prof. Ceylan Zafer (Turkey)     | Prof. Mikhael Bechelany (France)    | Prof. Ahmed Elmarakbi (UK)        |
| Prof. Meilin liu (USA)          | Prof. Moussa Javidani (Canada)      | Prof. Damian Onwudiwe (S. Africa) |
| Prof. Eri-Miura (Japan)         | Prof. Bonex Mwakikunga (S. Africa)  | Prof. Abdalla El-Naggar (Kuwait)  |
| Prof. Alberto Conejo (Mexico)   | Prof. Olena Volkova (Germany)       | Prof. Mo. Tlotleng (S. Africa)    |
| Prof. Taha Mattar (Egypt)       | Dr. Zanoletti Alessandra (Italy)    | Prof. Yang Zhinan (China)         |

## CONFERENCE CHAIRMAN

**Prof. Ibrahim GHAYAD**

Acting President, Central Metallurgical R & D Institute (CMRDI), Cairo

Ministry of Higher Education and Scientific Research, Egypt

Phone: +20 101 160 7288 Email: ighayad@cmrdi.sci.eg

**Prof. Arafa ALY** (Conference Co-Chairman)

President of The Egyptian Materials Research Society (Eg-MRS)

Beni-Suef University, Egypt.



## CONFERENCE EXECUTIVE CHAIRMAN

**Prof. Abdel-Monem EL-BATAHGY**

Central Metallurgical R & D Institute (CMRDI), Cairo

Ministry of Higher Education and Scientific Research, Egypt

Phone: +20 1224608265

Email: elbatahgy@yahoo.com

## CONFERENCE SECRETARY GENERAL

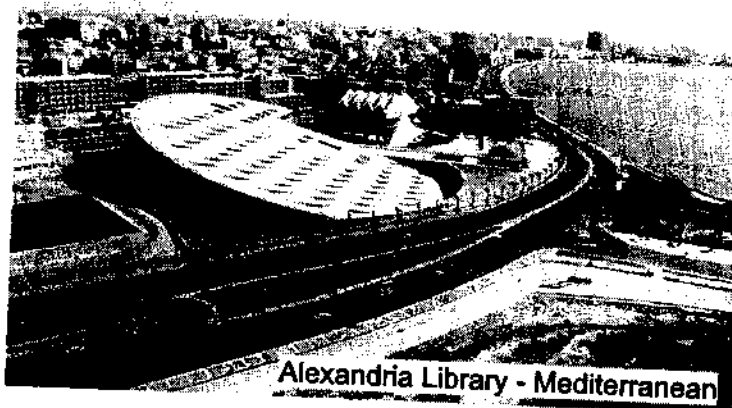
**Prof. Mohamed RASHAD**

Dean, Advanced Materials Institute, Central Metallurgical R & D Institute (CMRDI), Cairo

Ministry of Higher Education & Scientific Research, Egypt

Phone: +20 1117901877

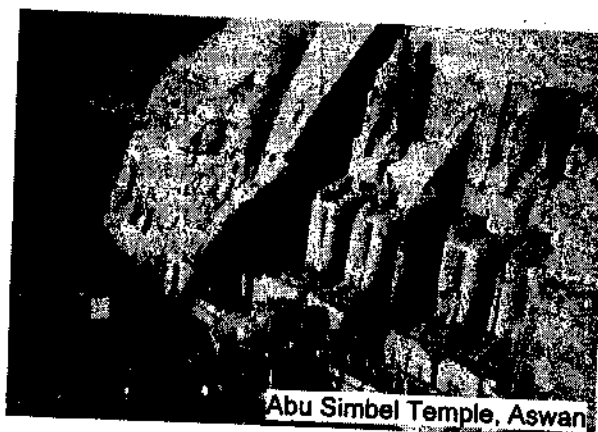
Email: rashad133@yahoo.com



Alexandria Library - Mediterranean



The valley of the Kings, Luxor



Abu Simbel Temple, Aswan