



## *Join us in Thessaloniki*

### Welcome Message

Dear colleagues,

We have the honour to invite you to join your peers and subject matter experts in EUROMAT2017, to be held in Thessaloniki, Greece, from 17 – 22 September, 2017.

EUROMAT is the premier international conference in the field of materials in Europe. The EUROMAT2017 conference venue will be the “Thessaloniki Concert Hall”, a unique complex of buildings conveniently located at the seafront of the city. [Read more....](#)

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### Symposia Structure

#### Area A: Functional Materials

- A1 [Carbon-based nanomaterials](#)
- A2 [Innovations in Functional Nanomagnets](#)
- A3 [Functional Polymers and Related \(Nano\)Composites](#)
- A4 [Self Healing Materials & Shape Memory materials](#)
- A5 [Colloidal Nanoparticles: Synthesis, functionalization and applications](#)
- A6 [Advanced Materials for Space Exploration](#)
- A7 [Functional Nanomaterials for Novel Applications](#)
- A8 [Materials by Design](#)
- A9 [Functional Membranes](#)

#### Area B: Structural Materials


- B1 [Advanced High Strength Steels](#)
  - B2 [Light Weight Metals](#)
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- B3 [High-temperature alloys](#)
- B4 [Advanced properties of SPD-processed metallic materials](#)
- B5 [Advanced Ceramics](#)
- B6 [Advanced Composites](#)
- B7 [Hybrid and Metal Organic Framework \(MOF\) Materials](#)
- B8 [High Entropy Alloys and Compositionally Complex Alloys](#)
- B9 [Bulk Metallic Glasses](#)
- B10 [Fatigue, Wear and Corrosion of Materials and Structures](#)
- B11 [Mechanical Properties and Microstructure](#)

#### Area C: Processing

- C1 [Coatings and Surface Modification Techniques](#)
- C2 [Laser-based processing and manufacturing](#)
- C3 [Powder routes: from synthesis to processing](#)
- C4 [Additive Manufacturing](#)
- C5 [Interface Design and Modelling, Wetting and High-Temperature Capillarity](#)
- C6 [Joining](#)
- C7 **Steel Making**
- C8 [Solidification, Casting, Foundry and Liquid Metal processing](#)
- C9 **Manufacturing Processes**
- C10 [Thermomechanical Processing, Severe Plastic Deformation and Nano structuring](#)

#### Area D: Characterization and Modelling

- D1 [Materials Science with Synchrotron Radiation X-rays](#)
  - D2 [Nanoscale Materials Characterization and Modeling by Advanced Microscopy Methods](#)
  - D3 [Materials at extreme conditions: static or dynamic compression combined or not with low or high temperatures](#)
  - D4 [Small scale mechanics, fracture, interface, experiments and modeling](#)
  - D5 [Application of ICME principles in the design of structural materials](#)
  - D6  [Multi-Length-Scale Innovations in Damage Evolution in Materials: Characterization, Modeling, and Validation](#)
  - D7 [Structural Health Monitoring and control](#)
  - D8 [Ab initio models for thermodynamic and elastic properties of advanced materials](#)
  - D9 [Qualification and modelling of structural and fuel materials for sustainable nuclear reactors](#)
  - D10 [Multiscale Modeling of Materials](#)
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## Area E: Energy and Environment

- E1 [Hydrogen production, conversion, and storage](#)
- E2 [Batteries and Supercapacitors](#)
- E3 [Materials for Energy harvesting](#)
- E4 **Materials for Nuclear Energy (fusion, fission)**
- E5 [Energy materials for organic photovoltaics and OLEDs](#)
- E6 [Advanced Materials for Transport Applications](#)

## Area F: Biomaterials and Healthcare

- F1 [Biomaterials for Tissue Engineering](#)
- F2 [Biomaterials for therapeutic delivery](#)
- F3 [Nanobiomaterials and nanotechnology for implants, devices and theranostics](#)
- F4 [The Next Generation of Implants with Multi-functional Properties: Advanced Synthesis, Processing and Surface Modification Methods for Biomaterials](#)
- F5 [Translation of biomaterials research towards innovation and product development: from concepts to clinic](#)
- F6 [Bio-Inspired Materials: From structural materials towards multi-functional biomaterials.](#)

## Area G: Education and Technology Transfer

- G1 [Competences and basic knowledge in the ICT ER](#)
- G2 [Key material fields for modern curricula](#)
- G3 [Critical Materials in Design, Manufacturing and Recycling](#)
- G4 [Transferable skills for Masters and PhD's in Material science](#)

## Area H: Raw Materials

- H1 [Critical Materials: Impact on Near-term Advanced Energy Technologies](#)
- H2 [Sustainable Production of \(Critical\) Materials](#)
- H3 [Materials Life Cycle Approach and Flow Analysis](#)

[Submit your abstract](#)

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## ORGANIZING SOCIETIES



Hellenic Metallurgical Society (HMS) [www.met.gr](http://www.met.gr)



Hellenic Society for the Science and Technology of the Condensed Matter  
(H.S.S.T.C.M.) [www.hsstcm.eu](http://www.hsstcm.eu)

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## PROFESSIONAL CONGRESS ORGANIZER



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