



EUROMAT 2021

EUROPEAN CONGRESS AND EXHIBITION
ON ADVANCED MATERIALS AND PROCESSES

WWW.EUROMAT2021.FEMS.EU

SEPTEMBER 12-16, 2021

GRAZ, AUSTRIA

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THE AUSTRIAN SOCIETY FOR
METALLURGY AND MATERIALS

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Dear colleagues,

ASMET is pleased to invite you to join **EUROMAT 2021** in Graz.

EUROMAT is the premier international congress in the field of materials science and technology in Europe. This conference will continue a successful series of material science conferences. The main objective is to foster knowledge transfer and exchange of experiences amongst delegates with academic and industrial backgrounds. The venue of the EUROMAT 2021 will be the Messe Congress Graz, which is located a few minutes walk from the city center of Graz.

With its strong history of design culture, the city of Graz is committed to embracing design and the creative industries as a strategic tool for socio-economic and cultural development.

The city of Graz has been included in the UNESCO list of World Heritage Sites. Graz or rather Austria is well known for its great hospitality, the fantastic white wines, unique pumpkin seed oil, top class cuisine and its short distances.

The Stadthalle Graz is an ideal congress venue, located within easy reach of the city centre, hotels are in direct proximity, and it is only 10 km away from the Airport Graz.

We are looking forward to welcome you in Graz at EUROMAT 2021!



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Christof SOMMITSCH	TU Graz, Austria

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GENERAL INFORMATION

DATES:

September 12-16, 2021

VENUE:

Messecongress Graz, Messeplatz 1, 8010 Graz

Graz airport is about 45 min away and Graz Central Train Station about 15 min by public transport.

BADGES:

Congress badges are mandatory for the admission & access to the meeting halls and exhibition.

LANGUAGE:

The official language of the congress is English. There will be no translation facilities available for the congress participants.

MOBILE PHONE:

Please keep your mobile phone turned off or in silent mode in all congress rooms.

PHOTOGRAPHS:

The organizer ASMET will take photographs of this event. We advise that it is not allowed to take pictures by yourself.

REGISTRATION DESK - OPENING HOURS:

Sunday 8.00 - 19.00
Monday 8.00 - 18.00
Tuesday 8.00 - 18.00
Wednesday 8.00 - 18.00
Thursday 8.00 - 12.00



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CURRENCY:

Euro (€, EUR),

ATM's are widely used in Austria and are called „Bankomat“. You will find outdoor venues at most branches of Austrian banks. 1 ATM is directly next to the entrance of the conference venue.

TIME ZONE:

UTC/GMT +2 hours

IMPORTANT DATES

<i>Opening of abstract submission</i>	November 10, 2020
<i>Deadline for abstract submission</i>	January 31, 2021
<i>Notification of acceptance</i>	April 16, 2021
<i>Preliminary program</i>	June 2021
<i>Deadline early bird registration</i>	Mid-June 2021
<i>Final program</i>	August 2021, continuously updated
EUROMAT 2021	September 12-16, 2021

AREAS

Area A	Functional Materials
Area B	Structural Materials
Area C	Processing
Area D	Characterization and Modelling
Area E	Energy
Area F	Biomaterials and Healthcare
Area G	Education, Strategy and Technology Transfer
Area H	Raw Materials

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SYMPOSIUM	A1	2D materials: Fundamentals, synthesis and applications	A
	A2	Synthesis and applications of functional materials	
	A3	Nanowires and nanotubes: From growth phenomena to devices	
	A4	Materials for catalysis and porous materials	
	A5	Materials for photonics and optics	
	A6	Characterisation of functional materials	
	A7	Nanostructured network materials	
	A8	Multi-purpose materials (electronic, magnetic, thermal, sensors/actuators)	
	A9	Photovoltaics/ solar cells	
	A10	Flexible functional oxides	
MECHANICAL PROPERTIES	B1	Advanced steels	B
	B2	Light weight metals	
	B3	High-temperature alloys and intermetallic, titanium aluminides	
	B4	Advanced structural ceramics	
	B5	High entropy alloys	
	B6	Fatigue, wear and corrosion of materials and structures	
	B7	Material testing, characterisation and modelling	
	B8	Advanced cast irons and tool steels	
	B9	Theory guided development of structural materials	
STRUCTURAL MATERIALS	C1	Additive manufacturing 1: Direct/beam-based techniques	C
	C2	Additive manufacturing 2: Indirect/sinter-based techniques	
	C3	Advanced subtractive manufacturing/machining	
	C4	Powder technologies to obtain high performance materials	
	C5	Liquid metal processing	
	C6	Solidification, casting and advanced metallurgical processing	
	C7	Green polymer processing	
	C8	Innovative heat treating routes	
	C9	Advanced ceramic materials processing	
	C10	Coatings and surface modification technologies	
	C11	Laser based processing and manufacturing	
	C12	Joining	
	C13	Wetting, high-temperature capillarity, interface design & modelling	
	C14	Thermomechanical processing, severe plastic deformation & nanostructuring	
ADVANCED MATERIALS	D1	Advanced microscopy in materials research	D
	D2	Characterization of advanced ceramics and composites	
	D3	Characterization of biomaterials	
	D4	Characterization of 1D and 2D materials	

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- D5** Micro- and nano-mechanics - Characterization and modelling
 - D6** Atomic scale modelling of advanced materials - Ab initio, molecular dynamics and Monte-Carlo simulations
 - D7** Integrated computational materials engineering - Interoperability, simulation platforms and applications
 - D8** Multiscale and multiphysics modelling of materials, processes and products
 - D9** Modelling of solidification, casting and remelting
 - D10** Modelling of additive manufacturing
 - E1** Advanced materials for transport applications
 - E2** Battery materials - From fundamentals to cell development
 - E3** Anion and cation transport in materials for energy storage
 - E4** Solid state batteries and components
 - E5** New concepts, materials and technologies for photovoltaic devices
 - E6** Materials for hydrogen technologies
 - F1** Bioceramics and bioglasses
 - F2** From academic biomaterials research toward commercial application
 - F3** Additive manufacturing of biomaterials
 - F4** Bioinspired materials
 - F5** Synthetic polymer for medical applications
 - F6** Biologically instructive biomaterials
 - F7** Metallic biomaterials
 - F8** Biomaterials enabling therapeutic delivery of bioactive molecules
 - F9** Smart biomaterials
 - G1** Materials education in an on-line world
 - G2** Gaming and virtual reality as a method for materials knowledge education and dissemination
 - G3** Additive manufacturing: From research to industrial application
 - H1** Bio-based materials to meet net zero targets covering biopolymers, bioplastics, biocomposites from feedstocks to functional materials
 - H2** Industrial applications of bio-based materials - Technologies, applications, markets
 - H3** Materials for a greener economy
 - H4** Materials in the circular economy
 - H5** Challenges facing raw materials
 - H6** Sustainability challenges for materials over the next decade
 - H7** Materials to address the 3R (reduce, reuse, recycle) challenges
 - H8** Biomass for the bio-based economy
 - H9** Materials for space applications and extreme environments

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FACTS ABOUT AUSTRIA & GRAZ

Population:

Austria 8.7 million people

Graz 292.000 people

With an area of 83,858 km² Austria consists of 9 independent federal provinces (Burgenland, Carinthia, Lower Austria, Salzburg, Styria, Tyrol, Upper Austria, Vienna and Vorarlberg).

Austria is famous for its castles, different types of music (classical music, folk music, yodelling, Austropop) and for its special desserts and sweets like Sachertorte, Mozartkugeln and Salzburger Nockerl.

Do not miss to taste some special food while visiting Graz and Styria, for example the popular pumpkin seed oil, breaded fried chicken or other regional specialities.

Graz is the capital of Styria, Austria's second largest city and is located in the south of the country. Its beautiful historical city center is a UNESCO World Cultural Heritage since 1999.

Climate:

Austria is located in a temperate climatic zone with a Central European climate influenced by the Atlantic climate.

Sundays:

Note that Austria is a majority Catholic country and that Sundays are observed as holidays. Most shops and some attractions will be closed!

Some great „sons & daughters“ of Austria:

Bertha von Suttner, Arnold Schwarzenegger, Sigmund Freud, Christine Nöstlinger, Gustav Klimt, Romy Schneider, Wolfgang Amadeus Mozart, Annemarie Moser-Pröll, Johann Strauß

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GREETINGS

German

Grüß Gott!
Hallo!
Guten Morgen!
Guten Abend!
Gute Nacht!
Ja
Nein
Auf Wiedersehen!
Wie geht es Ihnen?
Wie geht es dir?
Danke
Es geht mir gut.

English

Hello! (formal)
Hello! (informal)
Good morning
Good evening
Good night
Yes
No
Bye-bye
How are you? (formal)
How are you? (informal)
Thank you
I'm fine.



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ORGANIZING SOCIETIES



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