

# European CMetAC

## ECMetAC Newsletter No. 4

March 2021

Dear colleagues of the ECMetAC network,

With winter almost over, it is now time to look forward to the events planned in the coming months. All up-to-date information can be found on our website and we invite you to have a look.

We are looking forward to seeing you online!

Stay healthy and best wishes.

Julian Ledieu, Ronan McGrath,  
Marc Armbrüster, Jean-Pierre Celis  
and Émilie Gaudry

### ECMetAC Days 2021 – **NEW dates!!**

The ECMetAC Days 2021 will be organised by the University of Split from **6<sup>th</sup> – 9<sup>th</sup> December 2021**. More information will be available on our website around the summer.

### ECMetAC EuroSchool 2021 - online



'ECMetAC Euroschool 2021: **Complex Intermetallic Compounds for Applications**' will be held online on 24-28 May 2021. This is an annual event (15<sup>th</sup> in se-

ries) organised by the European Integrated Centre for the Development of New Metallic Alloys and Compounds (ECMetAC). The school will focus on potential applications of complex intermetallic in various areas. It will offer lectures by experts in the field revising progress to date and prospect ahead, and tutorials/hands-on trainings. The target audience of the event is Ph.D. students, doctorate fellows, and people new to the field of material science and physics. Young researchers will have an opportunity to establish a network among them.

Topics:

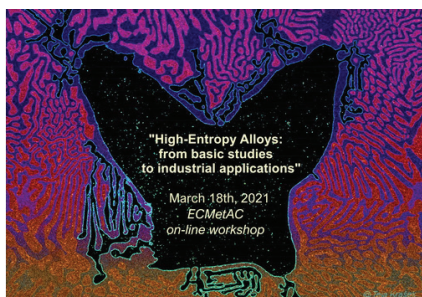
- Basic introduction to complex metallic alloys (structure, physical properties, growth)
- Surface structure and properties
- Magnetic properties
- Materials for energy (catalyst, thermoelectricity, magneto-calorimetry)
- Thin films and coatings
- Mechanical properties
- Additive manufacturing materials

The list of the confirmed speakers is already accessible on our [website](#).

Registration is free for anyone from an ECMetAC member institution. Non-ECMetAC members may join upon payment of a registration fee of €100. The registration deadline is 30 April 2021. The link to registration is [here](#).

<https://ecmetac.eu/>

## High Entropy Alloys Workshops – online



Workshop poster: Slovenian artist's Teja Krašek art based on SEM image of CrCuFeNiZrX eutectic alloy microstructure, material delivered by prof. Sheng Guo (Chalmers University of Technology, Göteborg, Sweden)

It is our great pleasure to invite you to participate in ECMetAC on-line dedicated innovative workshop on „High-Entropy Alloys: from basic studies to industrial applications” that will be held on March 18<sup>th</sup>, 2021. Our workshop will be opened by our honorary guest Prof. Sheng Guo from Chalmers University of Technology, Göteborg (Sweden) and all presentations will be focused on formation and stability, surfaces and physical properties. During our workshop we shall discuss scientific and market trends on high-entropy alloys that will be summarized at “Round-table discussion” guided mainly by our very young researchers Darja Gačnik and Fevzi Kafexhiu from J. Stefan Institute in Ljubljana (Slovenia). For further information and participation to the workshop, we invite you to contact [organizers](mailto:organizers@HEAworkshop2021@ijs.si) at [HEAworkshop2021@ijs.si](mailto:HEAworkshop2021@ijs.si) by 16<sup>th</sup> March. The abstract booklet containing regular abstracts and the program are available [online](#) along with several video-presentations of our young researchers.

Dr Magdalena Wencka and Prof. Janez Dolinšek, J. Stefan Institute, Ljubljana, Slovenia

### Related Upcoming Events

*IRN Aperiodic Seminar*  
by Marc de Boissieu  
Friday 9th April from 9:00-10:30 Paris time

*SCTE 2021 online* <http://scte2020.intibs.pl/>  
11<sup>th</sup>-16<sup>th</sup> of April 2021, Wrocław

### *1st International School on Hypermaterials*

The 1<sup>st</sup> school on Hypermaterials will be held jointly with the IRN Aperiodic and organised online from 21<sup>th</sup>-25<sup>th</sup> June 2021. "Hypermaterials" is the name of a research project that is being conducted in Japan from 2019 to 2023. This project aims at establishing a new concept of substances, "hypermaterial", which is a high-level concept that includes the existing concept for substances, and also at creating a new theory that incorporates the concept of hypermaterial. The targeted audience is clearly a non-specialist: Master and PhD students, young or experienced scientists working in the field of crystallography, chemistry, material science or solid state physic and willing to have a basic understanding of hypermaterials. For more details, visit the [website](#).

### *Kick-off meeting IRN Aperiodic*

*The 1<sup>st</sup> on site meeting of the IRN Aperiodic will be held 3-7 October 2021 in Carry le Rouet. More information on the [website](#).*

### *25<sup>th</sup> Congress of the IUCr*

*14th-22nd August 2021-01-22, Prague, Czech Republic <https://iucr2020.org/>*

### Missing Content?

If you have any news items for circulation, either on our website or in this newsletter, please send them to Julian Ledieu.

### Newsletter Subscription

If you are interested in receiving the ECMetAC newsletter on a regular basis, please go to <https://ecmetac.eu/> and subscribe for the newsletter at the bottom of the webpage

### Imprint

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