EuroHIP Hot Isostatic Pressing Sectoral Group
Open Meeting
Wednesday 14th October 2019, 17:00-18:30
at the Euro PM2019 Congress & Exhibition
Maastricht Exhibition and Congress Centre (MECC), The Netherlands, Room 0.6/0.7
Chairpersons: Dr. Susan Davies (BODYCOTE) and James Shipley (QUINTUS)

Minutes

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2 Participants
Roughly 15 attendees (scan data not available)

3 Agenda

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This meeting was ruled according to EPMA Antitrust Guidelines (http://www.epma.com/antitrust)
For any further information on the meeting please contact Kenan Boz, Technical Manager of EPMA, at kboz@epma.com
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Budgets and less load of bureaucracy by the end of 2020. KB emphasizes that EPMA will be following this issue.

KB finalizes his speech by welcoming new project ideas and asking the attendees to contact him if they have any ideas of starting a collaborative club project.

7 Update on the Club Projects of the EuroHIP (Prof. Christoph Broeckmann)

CB starts his speech with the description of the running Club project: Combination of Additive Manufacturing and HIP “AM&HIP”. The Objectives of the project are:

- Identification of a set of HIP parameters to obtain full density and optimal mechanical properties in components produced by LPBF
- Determination of the increase in fatigue strength that can be obtained by adding a HIP cycle to the LPBF process
- Optimization of the entire process chain: LPBF + HIP in order to get a solution with minimum process costs and maximum performance regarding mechanical properties

CB describes the work packages of the project and the progress they have achieved for each work package with two different materials: Inconel 718 and ASP2023 and shares the results they obtained by using different hatching and HIPing strategies with characterisation of density and microstructure. He then gives the results of the fatigue tests.

CB explains the Time schedule of the project with a Gannt Chart and declares the project will be ended by the Final meeting in January 202, but there will be a second stage of the project to improve their findings within the first step, and he invited possible partners to the second stage of the project.

CB also introduces a new project idea: Effect of Argon Gas in HIPing, where Argon gas trapped inside sometimes causes unexpected fractures in parts produced. Two attendees shows interest in this idea. KB asks CB to prepare a written proposal with a preliminary budget so that EPMA can circulate the proposal among it members. All agrees with this idea.

8 Discussion, Any Other Business, Conclusions, Next meeting

With little time for discussion, the meeting was closed, and also the next meeting was not indicated. Anyway, due to the shorter programme during the General Assembly days in Brussels in 2020, a meeting there is not foreseen. The next meeting will be planned at the Euro PM2020 congress in Lisbon, Portugal, 4th - 7th October 2020.