



# EuroHIP Meeting

Friday 23<sup>rd</sup> March

13h30 – 15h00

# Agenda

- EuroHIP 2017 Activities Feedback
- 1<sup>st</sup> results from EPMA EuroHIP Trend Survey
- AM&HIP18 Club Project: Feedback about Kick-Off Meeting
- AM&HIP19 Club Projects: Proposals / Discussions
- EuroHIP Seminar 2019
- SIS Euro PM2019
- HIP brochure update

# Survey - Stat

- [HIP Trend Survey](#)
- Trend Survey / statistical survey: too low participation for statistical relevance

# EuroHIP Sectoral Group 2017



- Seminar: PM for Demanding Applications, Large Parts and Complex Shapes – Nuclear AMRC Sheffield, UK
  - 32 participants / 11 speakers
- 1 SIS: HIP & AM: Thermal Post Treatment for AM Part Applications
  - 116 attendees / speakers: Dr Iñigo Iturriza (CEIT, Spain), Mr Frank Palm (Airbus Defence and Space GmbH, Germany) and Mr Maurizio Romeo (Beamit SpA, Italy)
- 1 Open meeting
  - Automating Canister Design for Powder HIP
  - Metalvalue: From a Nice Approach to a Commodity Market
  - Atlas Consortium: Feedback
- 1 Meeting by Invitation: Trend Survey
- 1 proposed CP for 2018: AM&HIP
  - > 20 participants in the meeting in Milan
- Trend Survey – Low participation
- Statistical data collection: too low participation for statistical relevance

# EuroHIP Sectoral Group 2018



- Seminar: Design for HIP – Västerås, Sweden: 57 participants / 12 speakers
- During EuroPM2018
  - SIS#1: HIP and Heat Treatment of IN718 – Microstructure and Mechanical Property Relationships of HIPed and Heat Treated Powder IN718.
    - Speaker 1: Oerlikon : Drs. Kumar Kandasamy and Olivier Messier. Microstructure and mechanical property relationship of HIPed and heat-treated IN718.
    - Speaker 2: Chalmers: Eduard Hryha
    - Speaker 3: Worcester Speaker confirmed
  - SIS#2: HIP and Heat Treatment of AM parts – Microstructure and Mechanical Properties and the Effect of Combined HIP and Heat Treatment Cycles Compared to Conventional Processing
    - Speaker 1: Jim Sears – Carpenter
    - Speaker 2: Christoph Broeckmann to find a speaker
    - Speaker 3: Susan to find a speaker (Ronald Adams / Prof Todd?)
- 1 open meeting:
  - Trend survey public part
  - NUMANN project
  - Discussion on HIP Standard : speaker Pelle Melin @SWEREA Kimab: A Proposed Swedish National Standard And Best Practice For Detection Of Ar In PM HIP Material
  - AM&HIP18 CP: feedback from kick-off
  - AM&HIP19 CP: proposed topics by Christoph Broeckmann
- 1 short meeting by invitation to present the trend survey

# EuroHIP Sectoral Group 2018



- CP AM&HIP:
  - 4 companies joined
  - Still open to other companies
  - Project: look into the combination of AM&HIP to reduce time and cost as opposed to AM on its own
  - Alloys tested:
    - IN718 (to be provided by Carpenter)
    - M2 tool steel (to be provided by Erasteel)
  - Total cost: #64k€ → max 16k€ / company with 4 companies
- Update for the brochure: updated case studies, addition chapter on HIP and heat treatment

# EuroHIP Sectoral Group 2019



- Seminar hosted by Bodycote and EPSI in St Nicklaas (Be): Conventional HIP vs rapid cooling
  - Call for presentation will be organised
  - Date to be decided mid January
- SIS: “HIP Awareness / HIP and MIM”
- EuroPM 2019: specific session on „the future for HIP“ as it will be the 30th anniversary for EPMA