

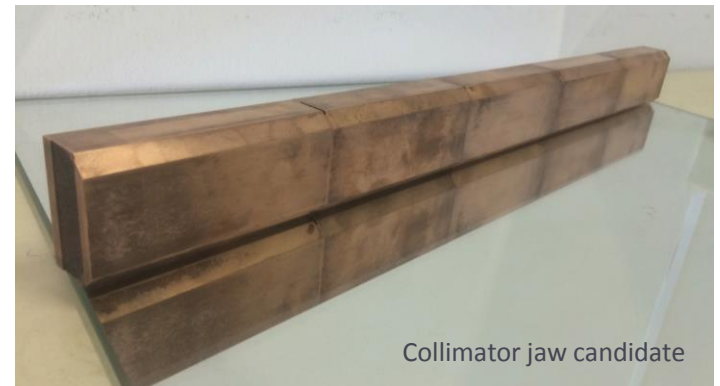
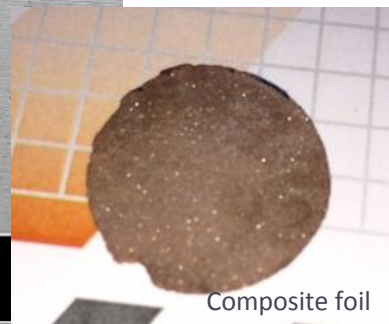
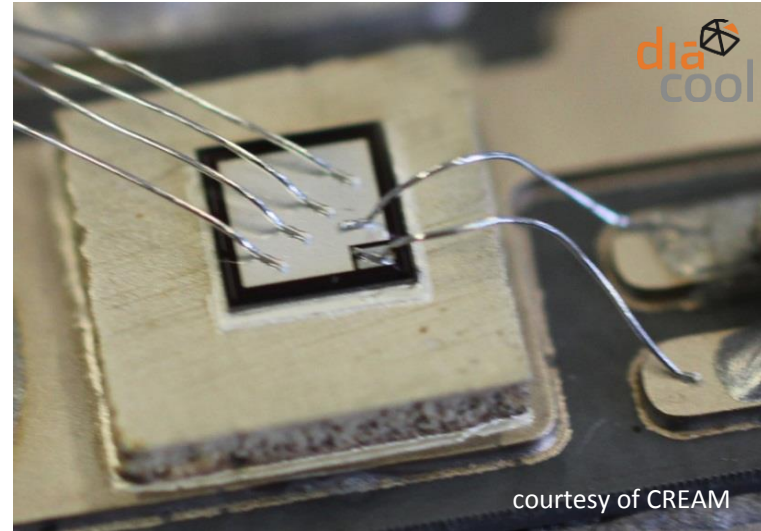
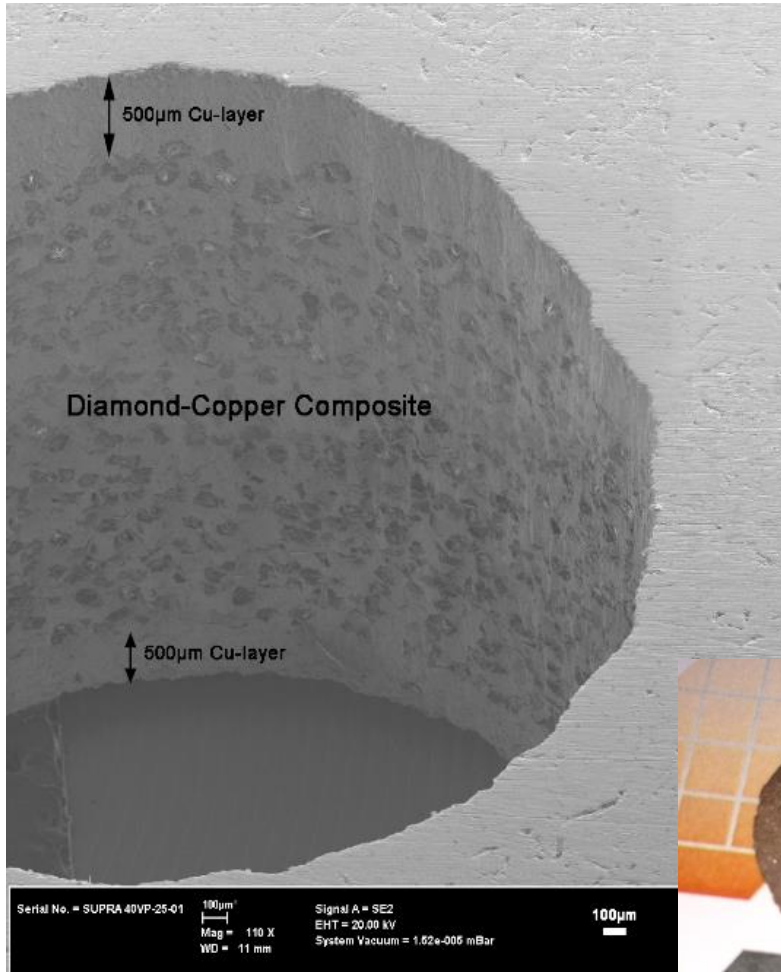


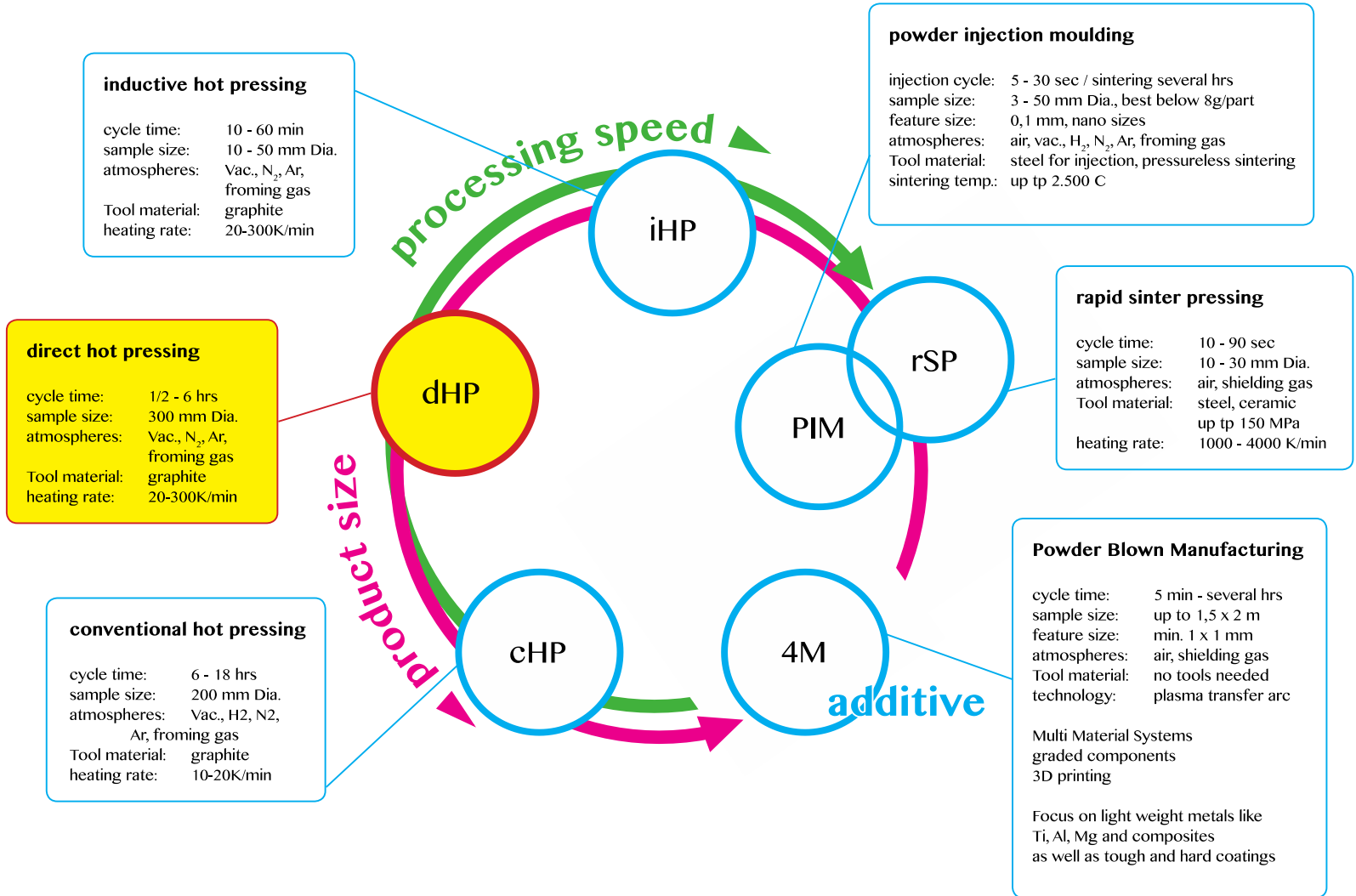
# A view from material manufacturer

Michael Kitzmantel, RHP



# Introductory pictures







# Thermal Management Materials Workshop

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## Direct Feedback:

- Good response from audience during the session breaks.
- Interesting industrial application ideas arising
- New R&D leads and contacts forming
- Collecting many business cards

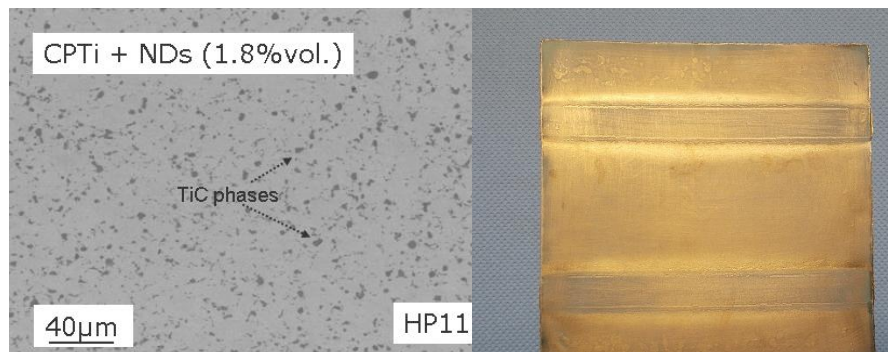
## Outcome for RHP:

- New application areas for Eucard 1+2 co-developed materials
- New ARIES topic of additive manufacturing to be established
- Hardly any industrial follow-up after the workshop

WP JRA14 – „Promoting Innovation“ will include several RHP related activities.

## Planned activities:

- Materials for extreme thermal management
- Demonstrate **AM of MgB<sub>2</sub> for large dimensions** (applications: novel beam pipes, RF cavities, ...)
- Other advanced applications for Metal-Diamond composites like novel **luminescence screens** for particle beams, quantum computing, fluorescence imaging, ...



Top: additive manufacturing „4MSystem“

Left: Titanium Matrix with fine dispersed NanoDiamonds

Middle: Stripes of thin Diamond Composites after manufacturing in the hot press.



# Thermal Management Materials Workshop

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Thank you to the organizers and all Eucard 2 community for giving us the opportunity to present our work and state of development at this platform!