



# EuCARD-2 WP-2 Status

Steering Committee Meeting

Malta, 26.04.2016



- A combined (WP2 and WP11) industry workshop on applications of thermal management materials was organized in November 2015, followed by a company visits
- Based on a survey; the prioritisation of requirements for applications outside High Energy Physics is:
  - Maximize thermal conductivity
  - Minimize thermal expansion coefficient
  - Low density
  - High operational temperature
  - Ensure machining/size/tolerances
  - Good chemical and oxidation resistance
  - Maximize electrical conductivity
  - Friction and wear properties



# Milestones and Deliverables due up to M36

- EuCARD² WP2 has 2 deliverables (reports) and 3 milestones (EuCARD² meets industry events)

Report no. (D/M)	Title	Due date	Status
D2.1	EuCARD-2 Key Technology Areas	M12, achieved	<a href="https://edms.cern.ch/document/1325115/4">edms.cern.ch/document/1325115/4</a>
MS13	Compact Accelerators for Isotope Production	M18, achieved M23 (justified)	<a href="https://indico.cern.ch/event/366464">indico.cern.ch/event/366464</a>
MS14	Thermal Management Materials for Industry	M30, achieved M31 (justified)	<a href="https://indico.cern.ch/event/400452">indico.cern.ch/event/400452</a>
MS15	To be decided	M42	To be prepared
D2.2	Final work package report	M44	To be prepared



# Summary on communication

Title of event	Date	Location	Particip.	Link
<b>Advanced Materials and Surfaces</b>	<b>19-20.11.2013</b>	<b>CERN, Geneva, CH</b>	<b>100</b>	<b><a href="http://indico.cern.ch/event/229108">indico.cern.ch/event/229108</a></b>
Accelerators for ADS	20-21.3.2014	CERN, Geneva, CH	50	<a href="http://indico.cern.ch/event/300409">indico.cern.ch/event/300409</a>
Hannover Messe	7-11.4.2014	Hannover, DE	10000+	<a href="http://cds.cern.ch/record/1709754">cds.cern.ch/record/1709754</a>
EnEfficient RF Source Workshop	3-4.6.2014	STFC, Daresbury, UK	70	<a href="http://indico.cern.ch/event/297025">indico.cern.ch/event/297025</a>
SEMI-THERM	15-19.3.2015	San Jose, US	200	<a href="http://semi-therm.org">semi-therm.org</a>
<b>Comp. Accel. for Isotope Production</b>	<b>26-27.3.2015</b>	<b>STFC, Daresbury, UK</b>	<b>70</b>	<b><a href="http://indico.cern.ch/event/366464">indico.cern.ch/event/366464</a></b>
Appl. of Particle Accel. in Europe	18-19.6.2015	London, UK	80	<a href="http://indico.cern.ch/event/377384">indico.cern.ch/event/377384</a>
<b>Appl. Thermal Management Mat.</b>	<b>6.11.2015</b>	<b>CERN, Geneva, CH</b>	<b>80</b>	<b><a href="http://indico.cern.ch/event/400452">indico.cern.ch/event/400452</a></b>



# Program for next 6 months

- Continue liaison with industry
  - Meetings with industry for collaboration/technology transfer are planned as a result of the workshop with industry on the applications of thermal management materials
- Organize the 3<sup>rd</sup> and final workshop with industry – M42
  - Further scouting, attendance at the workshops, planning and liaison with WP leaders regarding the decision on and organization of the 3<sup>rd</sup> workshop with industry
- Continue liaison with Technology Transfer offices of the EuCARD-2 participants for the promotion of the 3<sup>rd</sup> workshop with industry

- **EuCARD-2 meets Industry event #3**
- **to be organised jointly between WP2 (STFC and CERN) and other WP around month 42 (Nov. 16) of the EuCARD-2 project**
- **Planned workshop / 3 choices:**

Title of event	Date	Venue	WP
High Efficiency Klystrons	Summer 2017?	?	3/12/2
Low energy electron beams for industrial and environmental applications	Early Dec. 2016	Warsaw, Dresden Huddersfield Oxford or Daresbury CERN, Geneva	4/2
Advanced Low Emittance Ring Technology	16 Sept. 16	Elettra, Trieste	6/2