

H A R D  
**METAL**  
C E N T U R Y  
*Celebration*



HARD **METAL** CENTURY  
C E L E B R A T I O N

OCTOBER 12-13, 2023

GRAND HOTEL MAJESTIC, PALLANZA (VB), ITALY

A FEW SPOTS ARE STILL AVAILABLE,  
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*Program*  
DETAILS

# HARD METAL CENTURY *Celebration*

## THURSDAY 12 OCTOBER 2023

08:30 | Attendee registration

**Seminar focused on Hard Metal - Chairman Prof Alberto Molinari**, Past President of the Powder Metallurgy and Additive Manufacturing Technical Committee of AIM

09:00 – 09:20 | **The OMCD Group: an Italian history of entrepreneurship in the production of a strategic material**  
*Dott. Alberto Tedeschi, CEO of OMCD Group*

09:20 - 10:00 | **On the history of Tungsten, with special focus on the history of Hardmetals**  
*Prof. Wolf-Dieter Schubert, Technische Universität Wien*

10:00 - 10:20 | **An analysis about the global end-use segments of Tungsten, with focus on Hardmetals**  
*Dr. Burghard Zeiler, General Secretary of ITIA*

10:20 - 11:00 | Coffee break

11:00 - 11:30 | **From Tungsten minerals to Hardmetals via carbothermic reduction**  
*Prof. Riccardo Polini, University of Rome Tor Vergata*

11:30 - 12:00 | **Hardmetals as “urban mines” of CRMs toward zero waste: trends and perspectives**  
*Prof. Angela Serpe/Ing. Martina Cera, University of Cagliari*

12:00 - 12:20 | **Piedmont Alps: not only gold**  
*Ing. Pierluigi Degiovanni, Chemical Processes Consultant*

12:30 - 13:30 | Lunch

14:00 | Bus departure for Macugnaga

15:00 – 17:30 | **Mine visit “Miniera della Guia” and museum “Museo Casa Walser”**  
\* We remind you that the mine is located in Macugnaga, a mountain village, and that the internal temperature is 9 degrees, so a jacket and walking shoes are highly recommended.

18:30 | Return to the Hotel

19:00 | Before dinner drinks “aperitivo”

20:00 | Dinner hosted by OMCD Group

# HARD METAL CENTURY *Celebration*

## FRIDAY 13 OCTOBER 2023

**Seminar focused on Hard Metal - Chairman Prof Alberto Molinari**, Past President of the Powder Metallurgy and Additive Manufacturing Technical Committee of AIM

- |               |   |
|---------------|---|
| 09:00 - 09:30 | <b>Cobalt capping: study on a functional and aesthetic solution for hard metals</b><br><i>Prof. Alberto Molinari, University of Trento</i>  |
| 09:30 - 10:00 | <b>High entropy based hardmetals</b><br><b>A novel approach for designing Hardmetal compositions and properties</b><br><i>Dr. Johannes Poetschke, Fraunhofer Institute, IKTS, Dresden</i> |
| 10:00 - 10:30 | <b>Understanding 100 years of technological success of WC-Co Hardmetals through basic materials science principles</b><br><i>Prof. Luis Llanes, Universitat Politècnica de Catalunya</i>  |
| 10:30 - 11:00 | Coffee break  |
| 11:00 - 11:30 | <b>The Additive Manufacturing challenge in the production of Hardmetal components</b><br><i>Prof. Nora Lecis, Politecnico di Milano</i>   |
| 11:30 - 12:00 | <b>The Elettra Synchrotron light helps disclosing how Hardmetals reacts to the environment</b><br><i>Prof. Benedetto Bozzini, Politecnico di Milano</i>                                   |
| 12:00 - 13:00 | Lunch   |
| 13:30         | Bus departure for FILMS and Scleros plants  |
| 14:00 - 16:00 | FILMS and Scleros plant visit   |
| 16:00 - 17:00 | Goodbye drinks and buffet in the FILMS courtyard  |
| 17:00         | Bus return to the hotel   |

### Notes:

- Admission to the event and functions will be strictly by name badge
- The programme timing and the titles and order of presentations may be subject to change

### Venue

Grand Hotel Majestic  
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