

Raw MatTERS Ambassadors at Schools (RM@ Schools) is a European project, which is elaborating strategic planning of dissemination capacity and methodology to improve the image of science & technology in schools by explaining the value of raw materials while promoting new professional careers in this sector. This project aims to involve 10 – 19 years old students in hands-on experiments and communication activities. 29 partners from 19 European countries contribute to a large network with schools, companies, museums to rise among the youngsters and society the raw materials issues.



**26<sup>th</sup> October 2023**  
**VIII European Conference**  
**Raw MatTERS Ambassadors at Schools**  
 CNR Research Area of Bologna - Via P. Gobetti 101, Bologna (IT)



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**Website:**

<http://rmschools.eu>

*In collaboration with:*



**European Consortium:**



**Online streaming on the RM@Schools YouTube channel**

**Streaming link:** [https://www.youtube.com/watch?v=68K\\_B2jPGB4](https://www.youtube.com/watch?v=68K_B2jPGB4)

## European Consortium

It comprises 28 partners from 18 EU countries with complementary expertise in the field of RM and education:

National Research Council of Italy (CNR), Italy  
Montan Universität of Leoben (MUL), Austria  
Wetsus, The Netherlands  
Universidad Politecnica de Madrid (UPM), Spain  
Technische Universität Clausthal, Germany  
Bay Zoltán Noprofit Ltd. (BZN), Hungary  
Fraunhofer ISI, Germany  
Universidade Nova de Lisboa (NOVA), Portugal  
RWTH Aachen Universität, Germany  
National Technical University of Athens (NTUA), Greece  
Alma Mater Studiorum of Bologna (UniBO), Italy  
Kungliga Tekniska Högskolan (KTH), Sweden  
Tallinn University of Technology (TTÜ), Estonia  
Geological Survey of Sweden (SGU), Sweden  
University of Milano-Bicocca, Italy  
Politecnico di Milano, Italy  
Geological Survey of Slovenia (GeoZS), Slovenia  
Aalto University, Finland  
Flemish Institute for Technological Research (VITO), Belgium  
ERION Consortium, Italy  
Riga Technical University (RTU), Latvia  
EUROMINES, Europe  
Technical University of Kosice, Slovakia  
University of Banja Luka, Bosnia & Herzegovina  
University of Zagreb (UNIZG-RGNF), Croatia  
University of Miskolc, Hungary  
University of Science and Technology (AGH), Poland  
University of Liege (Uliège), Belgium

**Conference Chairs:** Armida Torreggiani & Alberto Zanelli (CNR-ISOF)

## Organizing Committee:

Riccardo Lucentini, Caterina Cinti, Emanuela Saracino, Eleonora Polo and Giovanna Sotgiu (CNR-ISOF), Francesca Deganello (CNR-ISMN), Luca Bellucci & Silvia Giuliani (CNR-ISMAR), Michela Tassistro (CNR-SCITEC), Andrea Ienco (CNR-ICCOM), Mauro Orlandini (INAF), Veronika Sochorova (EUROMINES), David Leon & Liliana Medic (UPM)

## Technical Support:

Silvano Favaretto, Roberto Cortesi, Fabio Testi, Laura Favaretto (CNR-ISOF); Lorenzo Forini (External Collaborator)

# Agenda



## Morning Session

**08:30 - 9:00 Registration**

**09:00 – Conference Opening & Official Welcome**

**09:15 - Short Overview on RM@Schools** – Armida Torreggiani (RM@Schools 4.0 Project Leader)

**09:30 - Competition on Raw Materials and their applications** - Team from UPM, Madrid (ES)

**10:00 - Students' learning pathways & communication products** – presented by Veronika Sochorova (EUROMINES) and Armida Torreggiani (CNR):

- Liceo Rambaldi Valeriani, Imola (BO), IT - CNR
- Kazinczy Ferenc Gimnázium és – HU- BZN
- Zeolite\_Bosnia & Herzegovina – Banja Luka Univ
- Otaniemi High School -Finland – Aalto Uni
- 5AA class IIS “Ghini” – Imola (BO), IT - CNR
- IONIOS SCHOOL – Athens, Greece – NTUA
- Liceo Romagnosi , Parma, IT – CNR
- Europagymnasium Leoben – AT- MUL
- IIS. Majorana, S.Lazzaro di Savena (BO), IT – UniBo
- ES Filipa de Lencastre, Lisbon, PT – FCT NOVA univ

**11:10 - Official Photo & Coffee break**

**11:40 - Students' learning pathways & communication products:**

- Städtisches Stiftsgymnasium Xanten, DE – Fraunhofer-ISI
- IIS “Sobrero” Casale Monferrato (Alessandria), IT
- Pécsi Tudományegyetem Gyakorló, Gimnázium és Mihály Gimnáziuma , HU- Miskolc Univ
- Liceo Copernico, Bologna, IT - CNR
- ISIS C. Facchinetti - Castellanza (Varese) IT – UniBicocca
- Grafene\_Bosnia & Herzegovina – Banja Luka Univ
- RTU Engineering High School, Latvia - Riga Univ
- IES LAZARO CARDENAS – Madrid, ES - UPM
- Liceo Roiti, Ferrara - CNR, IT
- Baldergymnasiet, Sweden – SGU
- Gustav Adolf Grammar School, Estonia - TALTECH
- 4AA class\_IIS Ghini – Imola (BO), IT - CNR
- Gymnázium Brno-Bystrc , Czech Rep – EUROMINES
- Liceo Fermi, Bologna, IT- CNR

**13:10 – Lunch**

**with the collaboration by:**

3F class of Liceo Copernico (BO, IT) & Prof. Claudia Cervellati; some students from Liceo Galvani (BO) & Prof. Maria Alboni.

## Afternoon session

**14:00 – 16:10 Exhibit Activities\***

**14:20 - 16:00 Parallel Workshops:**

- **14:20 -14:50 Lego Ratchet and Clean Water** – Roel Meulepas, Wetsus (NL) – **1<sup>st</sup> Floor Balcony**
- **14:20 - 14:50 Memory Game** – David Leon and Liliana Medic, UPM (Spain) – **Ground Floor Hall**
- **14:20-15:00 RokCheck** – Maša Mušič, GeoZS (Slovenia) – **ROOM 213**
- **14:20 – 15:10 Workshop for teachers - RM@Schools Toolkits & perspective** – A. Torreggiani (CNR) **ROOM 215**
- **14:30 – 15:30 Digital ecoCEO-the game of entrepreneurship** – Saskia Manshove VITO (Belgium) **ROOM 214**
- **15:10- 15:40 Lego Ratchet and Clean Water** – Wetsus (NL) **1<sup>st</sup> Floor Balcony**
- **15:10 - 15:40 Memory Game**, UPM (Spain) **Ground Floor**
- **15:10-15:50 RokCheck** – GeoZS (Slovenia) - **ROOM 213**

**14:50-16:00 Short Seminars (15 min each)** presented by Alberto Zanelli & Silvia Giuliani – CNR – **CONFERENCE HALL**

**- Modern application of European mineral resources in nanotechnologies** – Dr. S. Gotovac Atlagic – *Banja Luka University* (Bosnia & Herzegovina)

**- How much does the circular economy really circle?** – Eleonora Polo – CNR (Italy)

**- European Mining - The key enabler of the green and digital transition: European Best Practice** - Veronika Sochorova EUROMINES (Czech Rep.)

**- Talk Nerdy to Me - Improving your science communication skills** - Lea Daling RWTH Aachen (DE)

**16:15 - Sharing typical sweets and salty foods** among teams

**16:40 - Closure**

**\*Exhibit Activities** - the following list is not completed-

- Electronic material recycle at Boliden Rönnskär - SGU
- Resource efficiency projects in everyday life – Fraunhofer ISI
- Amazing Metals- Liceo Roiti , Ferrara
- The Phosphorous board game – IIS Majorana & UniBo
- Minerals from Bosnia & Herzegovina - Banja Luka Univ
- Play and win with Circular Economy - UniBicocca
- Complexometric titration of water - UPM
- BRIEFCASE – European Project
- Light Life board Game – ITAC Scarabelli-Ghini
- The Rise of Bioplastics: Shaping a Greener Tomorrow - BZN
- Critical Raw Materials Taboo – IIS Sobrero
- Dr. Greeny or Mr. Dirt? The future is up to you! ISMN- Palermo
- Creating biodegradable polymer samples
- .....