

MATERIE PRIME E GEOMATERIALI: CRITICITÀ E APPLICAZIONI INDUSTRIALI

PROGRAMMA 9 dicembre 2024

Ore 8:20 – 9:00 *Registrazione partecipanti (in presenza e online)*

Ore 9:00 – 10:00 Cerimonia di apertura

Introduzione alle Giornate a cura di Elena Belluso (Presidente GABeC) e di Paolo Mazzoleni (Presidente SIMP)

Saluti Istituzionali

- Magnifica Rettrice di Sapienza Università di Roma, Prof.ssa Antonella POLIMENI.
- Sen. Dott. Adolfo URSO, Ministro delle Imprese e del Made in Italy
- Dott. Gianluca CUSANO, Direzione generale valutazioni ambientali, Divisione II - Rischio rilevante e autorizzazione integrata ambientale, Ministero dell'Ambiente e della Sicurezza Energetica
- Dott. Arcangelo Francesco VIOLO, Presidente del Consiglio Nazionale dei Geologi
- Dott. Fiorenzo FUMANTI, Dipartimento per il Servizio Geologico d'Italia ISPRA, coordinatore della realizzazione del database nazionale geologico minerario
- Dott. David GOVONI, Presidente della Federazione Europea dei Geologi (FEG/EFG)
- Dott. Antonello PROVENZALE, Direttore dell'Istituto di Geoscienze e Georisorse, CNR
- Dott.ssa Monica GIARDA, Direttore delle Attività di Assorisorse

Ore 10:00 – 18:30 Lectures

10:00 – 11:00 “Implementazione del “Critical Material Act” in Europa e in Italia” - Gian Andrea BLENGINI (Università di Torino)

11:00 – 11:15 Coffee Break

11:15 – 12:15 “Un'introduzione alle risorse minerali e materie prime critiche: dove, come, quante” - Paolo NIMIS (Università di Padova)

12:15 – 13:15 “Studi sulla disponibilità futura delle Georisorse” - Francesco DI BENEDETTO (Università di Ferrara)

13:15 – 13:30 domande sulle lectures

13:30 – 14:20 Pausa Pranzo (*registrazione uscita e rientro, in presenza e on line, per i richiedenti i CFP*)

14:30 – 15:30 “Non solo litio: geoscienze, serendipità e nuovi orizzonti minerari” - Andrea DINI (Istituto di Geoscienze e Georisorse, CNR, Pisa)

15:30 – 16:30 “Georisorse Nazionali: leva strategica per la decarbonizzazione dell'industria ceramica” - Davide SETTEMBRE (Gruppo Ceramiche GRESMALT, Modena)

16:30 – 17:30 “Recupero di Materie Prime Critiche da rifiuti estrattivi. Casi studio in Italia” - Licia SANTORO (Università di Torino)

17:30 – 18:30 “Zeoliti: da minerale industriale a geomateriale strategico. Una nuova sfida per le zeoliti naturali” Mariano MERCURIO (Università degli Studi del Sannio, Benevento) e Piergiulio CAPPELLETTI (Università degli Studi di Napoli)

18:30 – 18:45 Registrazione uscita, *in presenza e on line*, per i richiedenti i CFP

18:45 Registrazione partecipanti (*in presenza e online*) alla verifica finale

18:45 – 19:30 Verifica Finale (questionario) necessaria per l'ottenimento di ulteriori **3 CFP** (previo superamento del questionario)

PROGRAMMA 10 dicembre 2024

Contributi

- 09:00 – 09:15 Brodu G. et al.:** Recovery of quarry waste by production of pozzolanic mortars using Sardinian rhyolitic rocks
- 09:15 – 09:30 Conte S. et al.:** Sustainability in the ceramic tile industry: necessity, constraints and opportunities
- 09:30 – 09:45 Di Leo P. et al.:** Phyllosilicates and clay minerals as suitable geomaterials for mechanochemical transformation and removal of xenobiotics: a review
- 09:45 – 10:00 Finocchiaro C. et al.:** Technological advances for the production of alternative geo-materials from waste
- 10:00 – 10:15 Floreani F. et al.:** Identification and characterisation of mining waste materials through field surveys at a decommissioned Cu-Sb(-Ag) mine site (Monte Avanza, Carnic Alps, NE Italy)
- 10:15 – 10:30 Fornari G. et al.:** Cogeneration ashes from Italian biomass-fired power plants as raw materials for fertilizer industry: detailed multi-analytical characterization and feasibility study
- 10:30 – 10:45 Fornasaro S. et al.:** The potential reuse of Coal Combustion Wastes: The case study of the Angren Thermal Power Station (Uzbekistan)
- 10:45 – 11:00 Lustrino M.:** The difference between a sceptic and a denialist. The CO₂ business and the role of geologists in a greener future

11:00 – 11:30 Pausa & poster session

- 11:30 – 11:45 Molinari C. et al.:** Ceramization of hazardous elements: benefits and pitfalls of the inertization process in silicate ceramics
- 11:45 – 12:00 Nazzareni S. et al.:** Unusual REE enriched in Agua de Pau syenites (Sao Miguel, Azores Islands): a case study to understand REE-enrichment processes
- 12:15 – 12:30 Pavoni E. et al.:** Identification and characterisation of mining waste materials through field surveys at a decommissioned Cu-Sb(-Ag) mine site (Monte Avanza, Carnic Alps, NE Italy)
- 12:30 – 12:45 Radica F. et al.:** Minero-chemical variability of recycled concrete aggregate (RCA) from a processing plant in Central Italy: towards an improved CDW Up-cycling
- 12:45 – 13:00 Randazzo L. et al.:** Clay raw materials: mineralogical characterization and technological properties for eco-sustainable use in the tanning sector and in the Green Building

13:00 – 14:00 Pausa pranzo & poster session

- 14:15 – 14:30 Raneri S.:** Recovering lithium: from LIB to LAS and non-compliant Li-rich enamels. Literature insights and new perspective from the LyCicle Project
- 14:30 – 14:45 Rimondi V.:** The antimony (Sb) resource in south Tuscany: evaluation of a critical raw material potential and of the environmental impact of past exploitation
- 14:45 – 15:00 Sbardella G.:** Cobalt removal from contaminated solutions through synthetic AMC-carbonates
- 15:00 – 15:15 Stabile P.:** Glass-ceramic materials from floating glass and Cu-slag waste: the role of cooling rate
- 15:15 – 15:30 Tagliacollo L.:** Critical Raw Materials (CRMs) petro-geochemical investigation in historically dismissed ophiolite-related Volcanogenic Massive Sulfide (VMS) deposits from the Emilia-Romagna region
- 15:30 – 15:45 Zanelli C.:** Critical raw materials in the global high-throughput ceramic industry

16:00-16:30: TAVOLA ROTONDA CONCLUSIVA condotta dal Presidente GABeC, Elena BELLUSO, dal Presidente SIIMP, Paolo MAZZOLENI, e dal Presidente CNG, Arcangelo Francesco VIOLO

Poster session

1. **Aquilano A. et al.**: Granite Extractive Wastes as a Source for Critical Raw Materials: Insights from Sardinia
2. **Attardi A. et al.**: The metallogenic database of Sardinia
3. **Bussolesi M. et al.**: Implementing Ophiolitic Chromite Concentrates from Metallurgical to Foundry Grade: The Case of Albanian Sands
4. **Cioce S. et al.**: Assessment of Critical Raw Materials in the Northern Apennines (Parma and Piacenza provinces) using bibliographic data and subsurface geological models
5. **Cofano V. et al.**: Closing the loop: a circular approach for Apulian waste streams
6. **Columbu S. et al.**: Recycling of fly-ash as hydraulic additive in eco-friendly mortars and concretes
7. **Deidda M.L. et al.**: The CARG 546 Guspi (SW Sardinia) metallogenic map: state of the art and workflow
8. **Ercoli R. et al.**: Characterization of Fine Fractions in Construction and Demolition Waste (CDW) from Rubble across Multiple Disposal Sites for Assessing Potential Applications.
9. **Graziano S.F. et al.**: Processing waste of quartzite from Jaipur District (India) as secondary raw materials for cementitious adhesives
10. **Mantovani L. et al.**: Resource recovery from municipal solid waste incineration bottom ash
11. **Milliacci G. et al.**: Modeling uranium extraction for energy transition
12. **Perna M.G. et al.**: CRMs from the LREE-F-rich belt of Roman Comagmatic Province (Central Italy)
13. **Raneri et. al.**: New perspectives on extracting and recycling lithium and REEs from mining and industrial wastes along with environmental safety and sustainability: the ARTU project
14. **Rotta D. et al.**: Characterization and valorization of fluvial sand fractions from the Emilia-Romagna region for the Recovery of Critical Raw Materials (CRMs)
15. **Scano L. et al.**: The low-temperature post-Variscan vein mineralization in Sardinia: genesis and economic potential in CRM
16. **Sedda L. et al.**: Advancing Sardinia's Mineral Resource Database: Updates from the Geosciences IR Project
17. **Stabile P. et al.**: Glass-ceramic materials from floating glass and Cu-slag waste: the role of cooling rate
18. **Zanelli C. et al.**: Mineral Resources for the Ceramic Industry: Survey of Feldspathic Raw Materials in Italy
19. **Zatti G. et al.**: Monitoring the quality of a kaolin mine over time: Piloni di Torniella (Tuscany, Italy)

Il Comitato Organizzatore

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