

**PERSONAL INFORMATION**    Giovanna Antonella DINO**WORK EXPERIENCES**01.10.2021 – in progress    **Researcher in Applied Geology**

Earth Sciences Department – University of Torino

Via Valperga Caluso, 35 – 10125 Torino

The carried out activities deal with:

- research on **topics** connected to **sustainable mining** (resources exploitation, extractive waste management and recovery, environmental impacts, geopolitical issues, economic and legislative challenges), **circular economy** (waste management, processing, recovery/recycling, energy efficiency) and **cultural heritage** (application of stones in historical contexts and cultural heritage);
- management and implementation of **Mineral dressing and sampling laboratory**;
- publication of papers in scientific journals of repute and of proceedings published for international and national congresses (see **Annex 1**);
- speaker and chair/co-chair at scientific sessions and member of organizing and/or scientific committees (national and international Conferences; see **Annex 2**);
- writing, implementation and coordination activities for national and international projects (the list of the projects is reported in **Annex 3**);
- tutoring and lessons about: rocks and soils characterization, quarrying and mining exploitation (from extraction to processing) and environmental rehabilitation, circular economy and landfill mining in extractive industry, sustainable and responsible mining, reclamation of derelict lands, management of rocks and soils from excavation works, *heritage stones* promotion and preserving (see **Annex 4**).

**Main scientific sectors:** Applied geology.01.11.2018 – 24.07.2024    **Member of the Board of Directors**Soc. CIDIU s.p.a. (<https://www.cidui.to.it/EN/>)

Via Torino, 9 – 10093 Collegno (TO)

CIDIU S.p.A. is a public company that operates in the environmental services sector, taking care of all aspects of waste cycle management: collection, treatment, disposal, recycling, energy recovery. The area interested by CIDIU activity includes the following Municipalities: Alpignano, Buttigliera Alta, Coazze, Collegno, Druento, Giaveno, Grugliasco, Pianezza, Reano, Rivoli, Rosta, Sangano, San Gillio, Trana, Valgioie, Venaria Reale e Villarbasse (about 260.000 inhabitants in total).

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

09.12.2008 – 30.09.2021

**Research Assistant**

Earth Sciences Department – University of Torino  
Via Valperga Caluso, 35 – 10125 Torino

The activities carried out as research assistant deal with:

- research on topics connected to quarrying and mining activities;
- management and implementation of two laboratories: **Geo-mechanical characterisation of rocks and *in situ* tests** (from 2009 to 2013) and **Mineral dressing and sampling** (from 2013 till September 2021);
- publication of papers in scientific journals and speaker and chair/co-chair at scientific sessions;
- writing, implementation and coordination activities for national and international projects

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

06.11.2008-05.12.2008

**Freelance employee dealing with the management and recovery of extractive waste and rocks and soils from excavation works**

Earth Sciences Department – University of Torino  
Via Valperga Caluso, 35 – 10125 Torino  
Scientific Responsible: Prof. Mauro Fornaro

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

01.12.2007-31.10.2008

**Research fellow**

Earth Sciences Department – University of Torino  
Via Valperga Caluso, 35 – 10125 Torino

Title of the research: "Study and valorisation of the heritage stones in the Western Alps: from quarry sites to historical buildings. Study of quarrying and processing techniques".

Scientific Responsible: Prof. Mauro Fornaro

*N.B. 6 months' research fellowship grant, suspended 5 months for maternity.*

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

01.12.2005-30.11.2007

**Research fellow**

Earth Sciences Department – University of Torino  
Via Valperga Caluso, 35 – 10125 Torino

Title of the research: "Study and valorization of the heritage stones in the Verbano Cusio Ossola and Canton Ticino quarrying basins: from quarry sites to historical buildings. Study of quarrying and processing techniques".

Scientific Responsible: Prof. Mauro Fornaro

Decree (at UNITO) n. 4513. 27.09.2005.

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

01.02.2005-31.10.2005

**Scholarship Fellow**

Earth Sciences Department – University of Torino  
Via Valperga Caluso, 35 – 10125 Torino

Title of the research: "Dressing activities and eco-friendly recoveries of the excavation waste coming from extractive and building industry".

Scientific Responsible: Prof. Mauro Fornaro

Call n. 3/2004, published on 16.12.2004.

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

01.02.2004-31.01.2005

**Scholarship Fellow**

Department of Environment, Land and Infrastructure Engineering (DIATI; ex DIGET) – Polytechnic of Torino

Corso Duca degli Abruzzi, 24 – Torino

Title of the research: "Exploitation of residual sludge coming from dimension stone working activities".

Scientific Responsible: Prof. Renato Mancini

Decree (at POLITO) n. 268.I 03.12.2003.

**Main scientific sectors:** Environmental geo-engineering.

01.01.2001-31.12.2003

**Scholarship Fellow**

Department of Environment, Land and Infrastructure Engineering (DIATI; ex DIGET) – Polytechnic of Torino

Corso Duca degli Abruzzi, 24 – Torino

Ministerial scholarship grant (16th cycle - PhD in Environmental Geoengineering).

PhD tutor: Prof. Mauro Fornaro

**Main scientific sectors:** Environmental geo-engineering.

## EDUCATIONAL AND TRAINING

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## 03.06.2004 PhD – Environmental Geoengineering

Department of Environment, Land and Infrastructure Engineering (DIATI, ex DIGET) – Polytechnic of Torino

Corso Duca degli Abruzzi, 24 – Torino

Tutor: Prof. Mauro Fornaro

Title of the PhD thesis: The management of the extractive waste.

Subjects: quarries and environmental rehabilitation, mineral dressing, secondary raw materials exploitation, ore deposits' investigation, excavation and mining, EIA - environmental impact assessment (on water, soil, air matrices), LCA, raw material characterization and products certification.

Skills achieved: ability to write and implement competitive projects, ability to project, organize and write technical and scientific reports, ability to produce scientific publications (in English and Italian), ability to present the results of a research at congresses and meetings (in English and Italian), sampling activities (*in situ* and at laboratory scale), physical-technical characterization of rocks and soils (*in situ* and at laboratory scale), data processing.

## 24.05.2000 Graduated in Environmental and Land management engineering – georesources (quarry and mine industry). Evaluation: 103/110

Department of Environment, Land and Infrastructure Engineering (DIATI, ex DIGET) – Polytechnic of Torino

Corso Duca degli Abruzzi, 24 – Torino

Tutor: Prof. Franco Rodeghiero. Co-Tutors: Proff. Mauro Fornaro, Riccardo Sandrone, Maria Chiara Zanetti.

Title of the Degree Thesis: Problems connected to ore deposit investigation and extractive activity in the Monte Bracco (CN) area.

Subjects: health safety and environmental protection, risk analysis, topography, mineralogy and petrography, geo-technical characterization of materials, geology and lithology, ore deposits' investigation, mining facilities, geochemistry, quarrying and environmental rehabilitation, topography, geophysics, geotechnical, basic notions for road construction, hydraulics and mechanics of groundwater, industrial minerals.

Skills achieved: ability to arrange technical and scientific reports, *in situ* sampling activities, physical and technical characterization of rocks and soils (*in situ* and at laboratory scale), data processing.

## OTHER EXPERIENCES

A.A. 2022-2024 Member of the scientific committee and teacher at the master "Green Manager" (<https://www.mastergreenmanager.it/>)

The Master in Green & Sustainability Management, proposed in apprenticeship mode, is a two-year Master's Degree at the University of Torino, based on the recruitment of professionals carried out by private and public companies.

The master aims to provide specialized training of professionals who can work in synergy with staff and top management bodies to promote the green transition of Italian companies and multinationals.

Main scientific sectors: Applied geology, Environmental geo-engineering.

March 2023 – in progress Member of the SinTESI-lab. Integrated experimental laboratory for sustainable technological innovation (<https://www.sintesi-lab.polito.it/>). SintesiLab aims to contribute to the training of a conscious and proactive historical engineering culture, which is necessary to promote an effective dialogue between complementary cultures, in terms of critical knowledge, and a prerequisite for the innovation project. The main objective of SinTESI-lab is providing advanced and integrated skills in multiple fields

of interest for private companies, research centers, universities, local entities, etc.

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

- 28.11.2022 – in progress    Member of the group supporting the National MIMIT-MASE table (formerly MISE-MITE) which discuss about challenges and potentialities connected to critical raw materials supply (at Italian level).
- 01.09.2021-07.01.2022    Member of the Tender Commission for the awarding of technical architectural and engineering services aimed at planning the tourist valorisation interventions of the Kreas Mining Park (CIG 8878627AC6).
- 24.01.2019 – 24.06.2019    External technical expert for the Technical Expert Group – Sustainable Finance

Selected to participate, as an external expert, in the working group which, on the behalf of the EC, is in charge of implementing the European Commission's Sustainable Finance Action Plan. Selected as expert in the field of circular economy and sustainable mining. The activity concerned weekly virtual meetings and a final workshop.

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

- 02.03.2018- 02.04.2019    Collaboration with the JRC – ISPRA

The collaboration was aimed at writing a chapter relating to a Case History, for the EU *Science for Policy Report*, titled: "Recovery of critical and other raw materials from mining waste and landfills". By Blengini, G., Mathieux, F., Mancini, L., Nyberg, M., Cavaco Viegas, H., Salminen, J., Garbarino, E., Orveillon, G., Saveyn, H., Mateos Aquilino, V., Llorens González, T., García Polonio, F., Horckmans, L., D'hugues, P., Balomenos, E., **Dino, G.**, De La Feld, M., Mádaí, F., Földessy, J., Mucsi, G., Gombkötő, I., Calleja I., 2019. EUR - Scientific and Technical Research Reports. Publications Office of the European Union. ISBN. 978-92-76-03391-2 (online), 978-92-76-03415-5 (print); ISSN 1831-9424 (online), 1018-5593 (print); DOI: 10.2760/494020 (online) 10.2760/700398 (print).

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

- 01.01.2014 – in progress    Editor, guest editor and peer-review activities for scientific publications

Earth Sciences Department – University of Torino

Via Valperga Caluso, 35 – 10125 Torino

**Peer-review:** Journal of Cleaner Production; Construction Building Materials; Resources Policy; Environmental Earth Sciences; Geological Society of London Special Publication; Science of the Total Environment (STOTEN); Structural Concrete; Resources, Conservation & Recycling; Minerals; Geoheritage; Mining; Environmental Science and Pollution Research; Structure and Infrastructure Engineering.

**Editor:**

Editor for Mining (ISSN 2673-6489, MPDI). ([Mining | An Open Access Journal from MDPI](#)) *Mining* has been assigned its first CiteScore of 2.8 in June 2024, after its inclusion in Scopus (Elsevier) in 2023. The CiteScore ranks 132 among 321 titles (Q2) in the Geology category. (Period: 01.05.2023 – in progress).

Guest Editor for the Special Issue "Sustainable Recycling and Reuse of Industrial By-Products or Waste from Geo-Resource Exploitation". ([Sustainable Recycling and Reuse of Industrial By-Products or Waste from Geo-Resource Exploitation \(mdpi.com\)](#)) (Period: from November 2023 – in progress)

Guest Editor for *Mining* (ISSN 2673-6489, MPDI). Special Issue "Women's Special Issue Series: Mining" ([Mining | Special Issue : Women's Special Issue Series: Mining \(mdpi.com\)](#)) (Period: 31.03.2022- in progress)

Guest Editor for *Resources Policy* (ISSN: 0301-4207, Elsevier). Special Issue "Natural Stones and Cultural Heritage promotion and preservation". ([VSI about "Natural Stones and Cultural Heritage promotion and preservation" - Call for Papers - Elsevier](#)) (Period: 24.02.2021 – 30.09.2022).

Guest Editor for *Sustainability* (ISSN: 2071-1050, MPDI. Open access). Special Issue "New Environmental, Economic and Social Challenges for Raw Materials Supply: Sustainable Mining and Extractive Waste Exploitation".

([https://www.mdpi.com/journal/sustainability/special\\_issues/Sustainable\\_Mining](https://www.mdpi.com/journal/sustainability/special_issues/Sustainable_Mining)) (Period: from 28.04.2020 – 31.01.2022).

Guest Editor for *Sustainability* (ISSN: 2071-1050, MPDI. Open access). Special Issue “Natural Stone and Architectural Heritage” (<https://www.mdpi.com/books/pdfview/book/1560>) (Period: from 01.04.2019 to 30.09.2019).

Guest Editor for “Science of the Total Environment” (ISSN: 0048-9697, Elsevier). Special Issue “Remediation and land management- research meets practise”. ([STOTEN | Science of The Total Environment | Remediation and land management: research meets practice | ScienceDirect.com by Elsevier](https://www.sciencedirect.com/journal/science-of-the-total-environment/special_issue.cfm?id=STOTEN-Science-of-the-Total-Environment-Remediation-and-land-management-research-meets-practise)) (Period: from 09.02.2018 to 13.12.2019).

Guest editor for *Resources Policy* (ISSN: 0301-4207, Elsevier). Special Issue “Sustainable management and exploitation of extractive waste: towards a more efficient resource preservation and waste recycling”. (<https://www.sciencedirect.com/journal/resources-policy/vol/59>) (Period: from 31.08.2017 to 31.12.2018).

Member of the editorial board of *Mining* (ISSN 2673-6489, MPDI). (Period: December 2022 – in progress)

Member of the Editorial Board of Pangea (on-line journal – <https://www.geam.org/pangea-introduzione.php>).

Member of the Coordination Board of GEAM ([Associazione Georisorse e Ambiente \(geam.org\)](http://www.assoziazionegeorisorseeambiente.org)).

**Main scientific sectors:** Environmental geo-engineering, Applied geology.

01.10.2023 – in progress

Scientific responsible of “Mineral processing and sampling” laboratory

Earth Sciences Department – University of Torino

Via Valperga Caluso, 35 – 10125 Torino

Activities related to geo-engineering and mineral dressing, such as: characterization of aggregates and dimension stones; characterization of raw materials and secondary raw materials; dressing activities (size, densimetric, magnetic, etc... separation); production of representative samples (from rocks and soils) for geochemical, physical-technical and environmental characterization.

**Main scientific sectors:** Environmental geo-engineering, Applied geology.

01.10.2013 – 30.09.2021

Technical responsible of “Mineral processing and sampling” laboratory

Earth Sciences Department – University of Torino

Via Valperga Caluso, 35 – 10125 Torino

Activities related to geo-engineering and mineral dressing, such as: characterization of aggregates and dimension stones; characterization of raw materials and secondary raw materials; dressing activities (size, densimetric, magnetic, etc... separation); production of representative samples (from rocks and soils) for geochemical, physical-technical and environmental characterization.

**Main scientific sectors:** Environmental geo-engineering, Applied geology.

01.07.2013 – 30.09.2022

Cooperation with ESAIP (graduate school for engineers. St. Barthelemy d’Anjou Cedex – France) for the courses «Safety, Environment and Risk Management».

Earth Sciences Department – University of Torino

Via Valperga Caluso, 35 – 10125 Torino

The collaboration deals with research and knowledge transfer on topics related to: circular economy and landfill mining in extractive industry; sustainable mining. During the last 7 years the writer has

tutored 16 students from ESAIP (1-2 months' stage activity on the aforementioned topics).

**Main scientific sectors:** Environmental geo-engineering, Applied geology.

01.01.2009-31.12.2015 UNITO Representative in the scientific committee of the *Centro Servizi Lapideo del Verbano Cusio Ossola S.c.p.a.* (<http://www.csl-vco.it/pub/>)  
Earth Sciences Department – University of Torino  
Via Valperga Caluso, 35 – 10125 Torino

**Main scientific sectors:** Environmental geo-engineering, Applied geology.

01.01.2009-30.09.2013 Technical responsible of the “Geo-mechanical characterisation of rocks and *in situ* tests” laboratory.  
Earth Sciences Department – University of Torino  
Via Valperga Caluso, 35 – 10125 Torino

**Main scientific sectors:** Environmental geo-engineering, Applied geology.

01.12.2005-30.11.2006 Freelance cooperation with the Research Center for the Craftsmanship of the Piemonte Region.  
Title of the project: “The stone industry in the Piemonte Region: production, supply chain organization and market positioning concerning the extractive activities. Production chain in the Verbano Cusio Ossola quarry basin”.

**Main scientific sectors:** Environmental geo-engineering.

## PERSONAL SKILLS AND COMPETENCES

Native speaker Italian

Other languages  
(European level)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	B1	B1	A2	A2	A2

## SOCIAL SKILLS AND COMPETENCES

Social skills: good communication skills, acquired during the dissemination activities of past and ongoing research (conferences, congresses, national and international meetings), during teaching experiences both at university (bachelor, master and PhD courses) and at secondary schools, and thanks to the experiences as children's and teens' entertainer at local level (L'Alvere Association) and as entertainer and leader at international level (International youth exchanges organized by the Municipality of Torino).

## ORGANISATIONAL SKILLS AND COMPETENCES

High standard in coordination and organisation activities thanks to the experiences as:

- Project Manager, principal investigator and participant in international and national projects;
- Chairperson in several international and national congresses;
- Member of the board of director – Soc. CIDIU spa;
- Editor of Pangea online Journal, member of the Coordination Board of GEAM, Editor of Mining journal and Guest editor for Sustainability, Resources Policy, STOTEN, Mining and Frontiers in Earth Sciences, Mining.

## TECHNICAL SKILLS AND COMPETENCES

- Training course research and entrepreneurship: new paths for enterprises valorisation. organized by 2i3T (Incubatore Imprese – UNITO). (24 hours. Period: 25.01.2024-22.02.2024).
- National Scientific Qualification (Idoneity) as Associate Professorship in “Applied Geology” from September 2023.
- Training course IRIDI START - edition 5, organised by UNITO. Quality teaching in presence and



- remotely, evaluation and inclusion. (21 hours. Period: April-July 2022).
- National Scientific Qualification (Idoneity) as Associate Professorship in "Geochemistry, mineralogy, petrography, volcanology, georesources and application" from June 2021.
- National Scientific Qualification (Idoneity) as Associate Professorship in "Raw Materials Engineering" (mining engineering) from January 2021
- Field activities for ore deposits', waste facilities' and landfills' investigation and volume estimation; sampling activity on different matrixes (rocks, soils, water);
- Laboratory skills concerning sampling, characterization, mineral processing, environmental impacts evaluation, etc.;
- License for explosive management (electric and fire shooting): November, 2007 - July 2018;
- Expert in "Applied Geology" - Faculty of Geological Sciences, University of Torino. October 2005-October 2012;
- Expert in "Mineral processing" - Polytechnic of Torino. October 2002-October 2005;
- Technical qualification as expert in "Environment, Energy and Safety" (Evaluation: 99/100); 1000 hours course held at ENFAP, C.so Svizzera 30, promoted by Regione Piemonte. July 2001;
- Qualification to practice as an engineer, obtained at the Polytechnic of Torino (2nd session 2000).

## COMPUTER SKILLS AND COMPETENCES

Information processing	Communication	Contents creation	Security	Problem solving
Advanced user	Advanced user	Intermediate user	Intermediate user	Intermediate user

DRIVING LICENSE B

## FURTHER INFORMATION

Scientific publications See **Annex 1**

Oral Presentations and chairs See **Annex 2**

Projects See **Annex 3**

Conferences Several conferences attended as speaker, chair and poster presentation. Only the conferences attended as speaker and chair are reported in **Annex 2**.

Groups or associations Member of the Heritage Stone working group (from 2014)  
Member of CISAO – Interdepartmental Center in UNITO for research and technical-scientific cooperation with Africa) ([www.cisao.unito.it](http://www.cisao.unito.it)) (from 2012)  
Member of ANIM – National Association for Mining Engineers (from 2001)  
Member of GEAM – Geomining association (from 1996)

Courses Several training courses about: waste management, circular economy, environmental impacts associated to waste management and to extractive industry, quarrying and mining activities, sustainable mining, heritage stones preservation and promotion, European policy, projecting training (for FP7, H2020 and Horizon Europe), etc... have been attended from 2001 (not reported in detail).

Scopus metrixs overview H-Index: 15; n of papers: 60; citation index: 673 (consulted on 25.03.2025)

Google scholar link  
(Publication Proof)

[Giovanna Antonella Dino - Google Scholar](#)

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[Dino, Giovanna Antonella - Author details - Scopus](#)

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Researchgate link  
(Publication Proof)

[Giovanna Antonella Dino \(researchgate.net\)](#)

Institute ID Link/Upload/Number  
(Working Proof)

[Ing. Giovanna Antonella Dino - Dipartimento di Scienze della Terra - Università degli Studi di Torino \(unito.it\)](#)



ANNEXES

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- **Annex 1:** scientific publications
- **Annex 2:** oral presentations and chairs
- **Annex 3:** projects
- **Annex 4:** teaching and tutoring activities

## ANNEX 1 – SCIENTIFIC PUBLICATION

### PAPERS ON INTERNATIONAL JOURNALS

1. Khelifi, F., Zhao, X., **Dino, G.A.**, Padoan, E., 2025. Quality assessment of new constructed technosols: Key findings on their biogeochemical and environmental characteristics. *Journal of Hazardous Materials*. 4895: article number 137571. ISSN: 03043894; DOI: 10.1016/j.jhazmat.2025.137571.
2. Casale, M., **Dino, G.A.**, Oggeri, C., 2025. Blasting of Unstable Rock Elements on Steep Slopes. *Applied Sciences*. 15(2): article number 712. ISSN 20763417; DOI: 10.3390/app15020712.
3. Wang, Z., Wang, Y., **Dino, G.A.**, Zhang, L., Ruan, Z., Zhang, M., Li, J., Wu, A., 2025. Degradation of hemihydrate phosphogypsum-based backfill in underground mining: Mechanical and microstructural insights on the effects of pH and temperature of mine water. *Process Safety and Environmental Protection*. 193:272 - 285
4. Wang, Z., Wang, Y., Liu, Q., **Dino, G.A.**, Ruan, Z., Wu, Z., 2024. Impact of weak interlayer characteristics on the mechanical behaviour and failure modes of cemented tailings backfill: A study on thickness, strength, and dip angle. *Engineering Failure Analysis*, 165:108795. ISSN 1350-6307. <https://doi.org/10.1016/j.engfailanal.2024.108795>.
5. Casale, M., Gambino, F., Borghi, A., Beltramo, R., Vesce, E., Vari, C., Giardino, M., **Dino, G.A.**, 2024. A sustainable integration of mining activity in a tourist mountain territory: The case of Germanasca Valley. *Resources Policy*, 98:105312. <https://doi.org/10.1016/j.resourpol.2024.105312>.
6. Zhao, X., Khelifi, F., Casale, M., Cavallo, A., Padoan, E., Yang, K., **Dino G.A.**, 2024. Critical raw materials supply: challenges and potentialities to exploit REEs from siliceous stones and extractive waste. *Resources*, 13(7):97;. <https://doi.org/10.3390/resources13070097>.
7. Storta, E., Barale, L., Borghi, A., d'Atri, A., **Dino, G.A.**, Gambino, F., Martire, L., Perotti, L., Piana, F., Acquarone, A., Sassone, P., Senesi, M., Mallen, L., Morelli, M., Nicolò, G., 2024. The Database of the Ornamental Stones of Piemonte (NW Italy) Hosted on a WebGIS Service. *Geoheritage*, 16:73. <https://doi.org/10.1007/s12371-024-00980-8>
8. Mancini, S., Gambino, F., **Dino, G.A.**, 2024. Georesources in Cultural Heritage: the Mg/Ca Ratio in Lime as a Marker of Variations in the Exploitation of Lime Stones in the Vercelli Area (Piemonte, Italy) over the Centuries. *Geoheritage*, 16(3):70. <https://doi.org/10.1007/s12371-024-00972-8>
9. Tazzini, A., Gambino, F., Casale, M., **Dino, G.A.**, 2024. Managing Marble Quarry Waste: Opportunities and Challenges for Circular Economy Implementation. *Sustainability*, 16:3056. <https://doi.org/10.3390/su16073056>
10. Mancini, S., Casale, M., Tazzini, A., **Dino, G.A.**, 2024. Use and Recovery of Extractive Waste and Tailings for Sustainable Raw Materials Supply. *Mining*, 4:149-167. <https://doi.org/10.3390/mining4010010>
11. Zhao, X., Yang, K., **Dino, G.A.**, He, X., Wei, Z., Zhang, J., 2024. Feasibility and challenges of multi-source coal-based solid waste (CSW) for underground backfilling – A case Study. *Process Safety and Environmental Protection*, 181:8-25. Ed. Institution of Chemical Engineers. ISSN 09575820. <https://doi.org/10.1016/j.psep.2023.11.013>.
12. Mancini, S., Casale, M., Rossi, P., Faraudello, A., **Dino, G.A.**, 2023. Operative instruments to support public authorities and industries for the supply of raw materials: A decision support tool to evaluate the sustainable exploitation of extractive waste facilities. *Resources Policy*, 81:103338. ISSN 0301-4207. <https://doi.org/10.1016/j.resourpol.2023.103338>.
13. Castro, N., Becerra, J.E., Bellopede, R., Marini, R., **Dino, G.A.**, 2022. Introduction to 'natural stones and cultural heritage promotion and preservation'. *Resources Policy*, 78:102775. ISSN 0301-4207. <https://doi.org/10.1016/j.resourpol.2022.102775>. (<https://www.sciencedirect.com/science/article/pii/S0301420722002239>)
14. **Dino, G.A.**, Mancini, S., Lasagna, M., Bonetto, S.M.R., De Luca, D. A., Pereira, M.D., Baptista, E.H., de Ferro M.M., I.L., Nuvunga, F., Victória, S.S., Rodrigues, N., 2022. Cooperative Projects to share Good Practices towards Sustainable Mining – SUGERE: a case study. *Sustainability*, 14(6):3162. DOI: 10.3390/su14063162
15. Cavallo, A., **Dino, G.A.**, 2022. Extractive Waste as a Resource: Quartz, Feldspars, and Rare Earth Elements from Gneiss Quarries of the Verbano-Cusio-Ossola Province (Piedmont, Northern Italy). *Sustainability*, 14(8):4536. DOI: 10.3390/su14084536
16. **Dino, G.A.**, Cavallo, A., Faraudello, A., Rossi, P., Mancini, S., 2021. Raw materials supply: Kaolin and quartz from ore deposits and recycling activities. The example of the Monte Bracco area (Piedmont, Northern Italy). *Resources Policy*, 74:102413. pp. 16.
17. Padoan, E., Romè, C., Mehta, N., **Dino, G.A.**, De Luca, D.A., Ajmone Marsan, F., 2021. Bioaccessibility of metals in soils surrounding two dismissed mining sites in Northern Italy. *Int. J. Environ. Sci. Technol.* <https://doi.org/10.1007/s13762-020-02938-z>.
18. Vagnon, F., **Dino, G.A.**, Umili, G., Cardu, M., Ferrero, A.M., 2020. New Developments for the Sustainable Exploitation of Ornamental Stone in Carrara Basin. *Sustainability*, 12:9374. DOI:10.3390/su12229374
19. Mehta, N., Cipullo, S., Cocerva, T., Coulon, F., **Dino, G.A.**, Ajmone-Marsan, F., Padoan, E., Cox, S.F., Cave, M.R., De Luca, D.A., 2020. Incorporating oral bioaccessibility into human health risk assessment due to potentially toxic elements in extractive waste and contaminated soils from an abandoned mine site. *Chemosphere*, 255:126927. ISSN 0045-6535. <https://doi.org/10.1016/j.chemosphere.2020.126927>

20. Mehta, N., **Dino, G.A.**, Passarella, I., Ajmone-Marsan, F., Rossetti, P., De Luca, D.A., 2020. Assessment of the Possible Reuse of Extractive Waste Coming from Abandoned Mine Sites: Case Study in Gorno, Italy. *Sustainability*, 12: 2471.
21. **Dino, G.A.**, Cavallo, A., Rossetti, P., Garamvölgyi, E., Sándor, R., Coulon, F., 2020. Towards Sustainable Mining: Exploiting Raw Materials from Extractive Waste Facilities. *Sustainability*, 12: 2383.
22. Zichella, L., **Dino, G.A.**, Bellopede, R., Marini, P., Padoan, E., Passarella, I., 2020. Environmental impacts, management and potential recovery of residual sludge from the stone industry: The piedmont case. *Resources Policy*, 65:101562. <https://doi.org/10.1016/j.resourpol.2019.101562>
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## PAPERS ON ITALIAN JOURNALS AND BOOK CHAPTERS

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22. **Dino, G.A.**, Fornaro, M., 2002. Residual sludge management: technical and regulation point of view and different kinds of reuse. Convegno SWEMP 2002 – Cagliari, 7-10 ottobre 2002. pp. 211-218.
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4. **Dino, G.A.**, Fornaro, M., 2009. La gestione degli scarti lapidei: cosa sta cambiando alla luce della recente normativa (D. Lgs. 117/2008 e L. 13/2009). 3° Congresso Nazionale AIGA - Centro di GeoTecnologie, Università degli Studi di Siena, San Giovanni Valdarno (AR), 25-27 febbraio 2009. Pubblicato su EngHydroEnv Geology 2009, n. 12, pp. 93-106. ISSN 2083-0801.
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6. **Dino, G.A.**, Fornaro, M., Milone, M., 2007. La gestione delle macerie in area urbana: produzione di materiali riciclati e possibilità di autoconsumo. Convegno Inertech 2007. Rimini, 7-10 novembre 2007. Supplemento alla rivista "Recycling- demolizioni&riciclaggio" n.



62/08. pp.184-189. Editrice PEI srl.

7. **Dino, G. A.**, Fornaro, M., 2002. Gestione delle "risultate e degli scarti litoidi". Convegno SAMOTER (organizzato dall'A.N.I.M.) su "Inerti e Costruzioni". Verona, 16 febbraio 2002. Volume atti convegno. pp. 77-80.
8. **Dino, G.A.**, Fornaro, M., 2001. Progresso tecnico e Ricerca scientifica per lo sviluppo dell'attività estrattiva della Pietra nelle Valli dell'Ossola. Convegno "Promuovere e finanziare le azioni per lo sviluppo sostenibile" (Domodossola, 24 novembre 2001). Volume atti convegno. pp. 68-86.

Abstracts and extended abstracts are not included in the present list.

## ANNEX 2 – SPEAKER AND CHAIR AT INTERNATIONAL AND NATIONAL CONGRESSES

22.11.2024	22.11.2024	Invited Speech for <i>Restructura 2024</i> - Torino. Title of the speech: <i>Energy and digital transition: needs and strategies for a sustainable supply of raw materials and critical raw materials. Circular economy and integrated management of "waste-resource", focused on mineral wastes (related to the mining, civil and construction sectors). Speech in Italian</i>
20.11.2024	21.11.2024	President of the organizing committee and speaker of the workshop NOW RESOURCE-2 <sup>nd</sup> edition ( <a href="http://www.nowresource.it">www.nowresource.it</a> )
04.11.2024	04.11.2024	Invited speaker and moderator at the <i>International Summit on Metallurgical Engineering and Mineral Processing &amp; 2nd International Summit on Power and Energy Engineering</i> . Title of the speech: <i>Green transition: tools and protocols to decide if and when applying waste exploitation as an alternative to remediation.</i> (Vancouver, 04.11.2024)
18.09.2024	18.09.2024	Poster presentation at the REMTECH EXPO. Event: <i>Stati generali delle miniere.</i> (Ferrara, 18.09.2024). <a href="#">Home - Remtech Expo</a>
01.10.2024	20.06.2025	Member of the Scientific Committee at the GlobalStone Congress 2025. Drama, Greece, 16-20.06.2025.
03.09.2024	05.09.2024	Co-chair at the session <i>S46. Sustainable raw material supply to boost the green and digital transition: the role of mineral waste recovery and recycling.</i> SGI-SIMP Conference (Bari, 02-05.09.2024) <a href="#">Congresso congiunto SGI, SIMP 2024</a>
24.04.2024	24.04.2024	Invited Speaker at the Planet Week, Istituto Nazionale di Ricerca Metrologica (INRIM), Torino. Speech titled: "Green transition: sustainability challenge for the extractive industry".
14.04.2024	19.04.2024	Co-Chair of the session GMPV6.1 Critical metals and minerals from mining and quarrying waste materials: formation, recovery and environmentally sustainable management for their valorization. Co-organized by ERE4. EGU General Assembly 2024 (Vienna, 14-19.04.2024). <a href="https://meetingorganizer.copernicus.org/EGU24/session/50176">https://meetingorganizer.copernicus.org/EGU24/session/50176</a>
25.11.2023	25.11.2023	Invited Speaker at the RESTRUCTURA event, Istituto Lingotto Fiere, Torino. Speech titled: "Circular economy in extractive industry and building sector".
19.09.2023	21.09.2023	Co-Chair at the SGI-SIMP 2023 Congress: <i>The Geoscience paradigm: resources, risk and future perspectives.</i> Title of the Scientific Session S16. Georesources and Sustainability: from cultural heritage promotion to waste exploitation. Potenza, 19-21 September 2023.
14.09.2023	15.09.2023	President of the organizing committee and speaker of the workshop NOW RESOURCE ( <a href="http://www.nowresource.it">www.nowresource.it</a> )
06.09.2023	08.09.2023	Invited Speaker at the Conference TERRA (Tertiary Education in Sustainable Resource Extraction (Boppard, D). Title of the speech: <i>Towards sustainable mining: the importance of cooperation projects to boost the training of mining engineers and geologists for the transition to sustainability.</i>
02.11.2022	28.04.2023	Co-Chair of the session ERE4.4 Sustainable solutions for proactive mine and quarry waste management and raw material supply valorization. EGU General Assembly 2023 (Vienna, 24-28.04.2023). <a href="https://meetingorganizer.copernicus.org/EGU23/session/46425">https://meetingorganizer.copernicus.org/EGU23/session/46425</a>
01.05.2022	24.05.2023	President of the Scientific Committee of the Conference Geology, Mines and Society (GeoMinas-SO). Higher Institute of Sciences and Technology of Mozambique, Maputo City. 22-24 May 2023. <a href="https://ces.uc.pt/en/agenda-noticias/agenda-de-eventos/2022/geominas-so">https://ces.uc.pt/en/agenda-noticias/agenda-de-eventos/2022/geominas-so</a>
11.10.2022	11.10.2022	Invited Speaker at the 3rd edition of the Short Mediterranean PhD School "From sustainable to regenerative and resilient design". Title of the speech: "Mineral waste management and recovery: Focus on rocks and soils from excavation and extractive waste". Napoli, 10-13.10.2022
06.10.2022	07.10.2022	Chairperson at the Congress <i>Scarti Minerari: Da Rifiuto A Risorsa</i> , organised by Fondazione Stava 1985, Tesaro di Stava. Title of the session: <i>Da Rifiuto A Risorsa.</i>

06.10.2022	07.10.2022	Invited speaker at the Congress <i>Scarti Minerari: Da Rifiuto A Risorsa</i> , organised by Fondazione Stava 1985, Tesaro di Stava. Title of the speech: "Economia circolare nell'industria estrattiva: potenzialità e criticità"
19.09.2022	21.09.2022	Chairperson at the SIMP Congress, Torino (Italy) of the session S5: Sustainability in dimension and ornamental stones industry (from exploitation to application).
29.06.2022	30.06.2022	Speaker at the Workshop, organized by GEAM (Associazione Georisorse ed Ambiente), in collaboration with UNITO (Earth Sciences Department) and POLITO (DIATI). Title of the Workshop: "Raw Materials and Sustainability: challenges and potentialities for raw materials supply from natural and recycling sources". Speech title: Valorizzazione del ciclo produttivo dei marmi di Carrara.
29.06.2022	30.06.2022	Chairperson and Member of the Organizing Committee of the Workshop, organized by GEAM (Associazione Georisorse ed Ambiente), in collaboration with UNITO (Earth Sciences Department) and POLITO (DIATI). Title of the Workshop: "Raw Materials and Sustainability: challenges and potentialities for raw materials supply from natural and recycling sources" (Materie Prime e Sostenibilità: criticità e potenzialità nel reperimento delle risorse primarie e da riciclo).
20.06.2022	24.06.2022	Invited Speaker at the MINEWA Summer School. Bardonecchia (TO, Italy). Speech titled: Mineral tailings (and extractive waste management and recovery). (23.06.2022)
23.05.2022	27.05.2022	Speaker at the EGU2022. Vienna (Austria)&online congress. Speech titled: Sustainable Raw Material supply: towards a more "domestic" approach (Dino G.A., Cavallo A.), and Poster titled: Quartz, feldspars and REE from gneiss waste materials: an example from the VCO province (Piedmont, northern Italy)" (Cavallo A., Dino G.A.). (23.05.2022)
01.06.2021	16.09.2021	Member of the Organizing Committee and Speaker at the GEAM Workshop - Raw materials and critical raw materials: European policies, strategies and projects. Speech title: Experiences on concluded and ongoing projects.
01.07.2021	01.07.2021	Speaker at the SIDISA 2021 – 11th International Symposium of Environmental Engineering (Torino, 29.06 – 02.07.2021). Speech title: Oral bioaccessibility of potentially toxic elements in soils and extractive waste from abandoned mine site: a case study from Campello Monti, NW Italy
01.07.2021	01.07.2021	Chairperson of the Session - Remind project: Mining Sustainability. SIDISA 2021 – 11th International Symposium of Environmental Engineering (Torino, 29.06 – 02.07.2021)
11.12.2020	11.12.2020	Invited speaker at the 1 <sup>st</sup> Roundtable – INCO-Piles Project. Speech titled: Challenges and potentialities of RM and CRM supply from extractive waste facilities: case studies from Italian quarrying and mining activities.
03.11.2020	30.04.2021	Chairperson of the ERE5.3 session - Interdisciplinary approach to support raw material supply and sustainable development goals. EGU General Assembly 2021 (vEGU21: Gather Online - 19- 30.04.2021). <a href="https://meetingorganizer.copernicus.org/EGU21/session/38731">https://meetingorganizer.copernicus.org/EGU21/session/38731</a>
03.11.2020	30.04.2021	Co-Chair of the ERE5.1 session - Global Heritage Stone Resource: The sustainable way forward. EGU General Assembly 2021 (vEGU21: Gather Online - 19-30.04.2021). <a href="https://meetingorganizer.copernicus.org/EGU21/session/38728">https://meetingorganizer.copernicus.org/EGU21/session/38728</a>
01.04.2019	07.10.2021	Member of the organizing committee of the II Workshop on Heritage Stone – Torino, 21 <sup>st</sup> -23 <sup>rd</sup> September 2020. Postponed to 5 <sup>th</sup> -7 <sup>th</sup> October 2021, due to the COVID19 pandemic crisis.
16.10.2019	06.05.2020	Chairperson of Session ERE5.5 - Sustainable Mining and Circular Economy in the Extractive Industry. EGU2020 General Assembly. <a href="https://meetingorganizer.copernicus.org/EGU2020/session/34715">https://meetingorganizer.copernicus.org/EGU2020/session/34715</a> . Session on the 6 <sup>th</sup> of May 2020, organized as a virtual session due to the COVID19 pandemic crisis.
22/07/2019	22/07/2019	Invited speaker at the Global Recycling Summit 2019 – 22 <sup>nd</sup> -23 <sup>rd</sup> July 2019. Speech titled: Exploitation of mineral waste fine fraction to produce cultivable substrates to use for land rehabilitation.
02/10/2018	04/10/2018	Member of the Organizing committee and co-chair: I Workshop on Heritage Stones. Salamanca (Spain). 2-4 October 2018 "Stone and Heritage in Salamanca. A standard through the centuries". IUGS Heritage Stones Subcommission.
19/09/2018	20/09/2018	Chairperson of the session Advances in Land Management and Resource Recovery. REMEDIATE International Conference. Belfast. 19-20.09.2018.
29/06/2018	30/06/2018	Speaker at the 5 <sup>th</sup> Symposium for the Mining activities in the Mediterranean Basin – Iglesias. Speech titled: Sustainable mining to extract critical raw materials and secondary raw materials from extractive waste facilities: challenges and opportunities. The Campello Monti Ni-mine case study.
08/04/2018	08/04/2018	Co-chair of the session ERE 7.1: Geomaterials in construction: resources, properties, performance, environmental interactions, decay, and extractive industries waste management. EGU General Assembly 2018 Vienna 8–13 April 2018.
07/02/2018	07/02/2018	Invited speaker at the Joint Workshop on EU Landfill Mining. Public Waste Agency of Flanders (OVAM). Mechelen, Belgium. Speech titled: SMART GROUND approach and pilot studies.
02/10/2017	06/10/2017	Co-chair of the Workshop "G14 / Smart Ground - Secondary raw materials". Sardinia Symposium 2017.

		Santa Margherita di Pula (CA). 2-6 October 2017.
24/05/2017	24/05/2017	Invited speaker at the training course organized by GEAM about "Methodologies for the underground resources protection: theoretical and practical aspects". Speech titled: Underground protection in the mining areas.
23/04/2017	28/04/2017	Co-chair of the session ERE 6.1: Geomaterials in construction: resources, properties, performance, environmental interactions, decay, and extractive industries waste management. EGU General Assembly 2017. Vienna, 23-28 April 2017.
23/04/2017	28/04/2017	Speaker at the EGU General Assembly 2017. Vienna, 23-28 April 2017. Speech titled: Extractive waste exploitation towards the natural resource preservation: two Italian case studies.
08/11/2016	11/11/2016	Speaker at the session: Waste management within the circular economy: applied research for the recycling, recovery and integrated management of waste. ECOMONDO – Rimini, 8-11 November 2016. S Joint Workshop on EU Landfill Mining. Public Waste Agency of Flanders (OVAM). Mechelen, Belgium. Speech titled: SMART GROUND: SMART data collection and inteGRation platform to enhance availability and accessibility of data and inforMation in the EU territory on secoNDary raw material.
24/05/2016	24/05/2016	Chairperson of the networking session: Circular economy and landfill mining: key concepts to exploit waste as new resources. SUM 2016 – 3rd of Symposium of Urban Mining and Circular Economy. Bergamo, 23-25 maggio 2016.
20/05/2016	20/05/2016	Speaker at the 1st International Sustainable Stone Conference. Carrara Marmotec. Speech titled: Quarry waste management: a new territorial and industrial approach in Carrara basin.
29/04/2016	30/04/2016	Invited speaker at the ANIM Congress in Valmalenco 29-30 April: mining activities in the Alpine context. Speech titled: Quarts from Sondalo: example of sustainable mining and waste production minimisation, also considering the recent EU projects (eg. Smart Ground project).
17/04/2016	22/04/2016	Speaker at the EGU General Assembly 2016. Vienna, 17-22 April 2016. Speech titled: Recycling of quarry waste as part of sustainable aggregate production: Norwegian and Italian point of view.
31/10/2015	07/12/2015	Invited speaker at the GSA (Geological Society of America) Congress. Baltimore, Maryland, US. 31 October 2015 – 7 November 2015. Speech titled: The Candoglia Marble from Verbano Cusio Ossola quarry basin (Northwestern Italian Alps): characterization, quarrying evolution and application for the Milano Cathedral construction.
12/04/2015	17/04/2015	Speaker at the EGU General Assembly 2015. Vienna, 12-17 April 2015. Two speeches titled: Title 1. Candoglia Marble and the "Veneranda Fabbrica del Duomo di Milano": a resource for Global Heritage Stone Designation in the Italian Alps. Title 2. Reuse of residual sludge from stone-processing: differences and similarities between sludge coming from carbonate and silicate stones.
22/10/2014	25/10/2014	Speaker at the V Global Stone Congress – 22-25 October 2014. Antalya, Turkey. Speech titled: Quarry dumps: Chance to become new ore deposit (Italian state of the art). Co-Chair of the session: Assessment of stone performance in use (23.10.2014).
15/09/2014	19/09/2014	Speaker at the IAEG XII CONGRESS Torino 2014 - Engineering Geology for Society and Territory. Lingotto Fiere 15-19 September 2014. Speech titled: Treatment and exploitation of waste coming from quarry industries: reuse as aggregate.
07/06/2013	07/06/2013	Speaker at the 5° National Congress on Geology and Turism. Bologna, 6-7 June 2013. Speech titled: Dimension stones from Ossola valley: from quarry to buildings.
07/04/2013	12/04/2013	Speaker at the EGU General Assembly 2013. Vienna 7-12 April 2013. Speech titled: Residual sludge from dimensional stones: characterisation for their exploitation in civil and environmental applications.
10/09/2012	13/09/2012	Speaker at the 4th International Conference on Engineering for Waste and Biomass Valorisation. September 10-13, 2012 – Porto, Portugal. Speech titled: Innovative treatment and valorisation of waste coming from dimensional stones working plants: Piedmont samples.
22/05/2012	22/05/2012	Invited speaker at the Focus Day: "Extractive waste valorisation: waste or resource for the marble and construction sector in the Frosinone district" Organised by the Chamber of Commerce of Frosinone. Speech titled: The market of the recycled materials and the ongoing experimentation about residual sludge recovery.
19/09/2011	23/09/2011	Speaker of the speech titled: Sludge management in Piedmont dimensional stones industry: new examples of residual sludge "renaturation". Geoitalia 2011. VIII Italian Forum for the Earth Sciences. Torino 19-23 September 2011.
05/11/2008	08/11/2008	Speaker at Ecomondo. 12th International Trade &Energy Recovery and Sustainable Development. Rimini, 5-8 November 2008. Speech titled: Rocks and soils from excavation works.
25/02/2009	27/02/2009	Speaker at the 3° National Congress AIGA - Centro di GeoTecnologie, University of Siena, San Giovanni Valdarno (AR), 25-27 February 2009. Speech titled: Extractive waste management: changes on the basis of the recent Italian legislation (D. Lgs. 117/2008 e L. 13/2009).

19/09/2008	19/09/2008	Speaker at the Congress "Uniqueness, uniformity and universality in the cultural landscape". Grado, 18 – 19 September 2008. Speech titled: The White Montorfano: potentiality and application in the VCO building sector.
14/03/2008	14/03/2008	Speaker at the of the Final Congress of the Interreg PIC IIIA VCO – Canton Ticino "OSMATER (Osservatorio Sub-Alpino Materiali Territorio Restauro)". Crevoladossola (VB), 14 March 2008. Speech titled: The evolution of extraction techniques and <i>in situ</i> applications. Proposals for geotouristic routes starting from historic villages.
15/06/2007	15/06/2007	Speaker at the Congress for the young researchers in applied geology. Venezia, 14-15 June 2007. Speech titled: Issues and Challenges connected to residual sludge management, chance of recovery after proper treatment activities.
12/11/2005	14/11/2005	Speaker at the First International Conference on the Geology of Tethys. 12-14 November, 2005, Cairo University. Speech titled: Monte Bracco quartzite dumps: chance of recovery as second raw material for glass and ceramic industries.
23/05/2005	25/05/2005	Speaker at the GEOLINE 2005 congress: Geology and linear infrastructures. Lyon 23-25 May 2005. of the speech titled: Piedmont experience for the re-use of dimension stone quarrying by-products, civil works wastes in the large public works.
20/08/2004	28/08/2004	Speaker at the 32nd International Geological Congress. Firenze, 20-28 August 2004. Speech titled: Re-use of dimension stone quarrying wastes as construction materials for large public works: the experience of Piedmont region (Italy).
15/09/2003	18/09/2003	Speaker at the IMBS 2003 Congress – Istanbul – Turkey 15 – 18 September 2003. Speech titled: Sludge Production and Management in the Italian Granite Stone Industry: An Example from Two Granite Basins in the Alps. "Industrial Minerals and Building Stones"
07/10/2002	10/10/2002	Speaker at the SWEMP 2002 Congress – Cagliari, 7-10 October 2002. Speech titled: Residual sludge management: technical and regulation point of view and different kinds of reuse.

*Poster presentation are not included in the present list.*

## ANNEX 3 – PROJECTS

**SCIENTIFIC RESPONSIBLE OF THE FRAMEWORK AGREEMENT FOR SCIENTIFIC COOPERATION AMONG UNITO (Earth Sciences Department), CARRARA MARBLE WAY s.r.l. and Eng. Claudia Chiappino**

Object of the Agreement: cooperation on research, implementation and dissemination activities about circular economy in extractive industry, with a focus on "mineral waste" (both extractive and processing waste) coming from Carrara marble quarry basin

**Period: February 2025 – January 2028**

**SCIENTIFIC RESPONSIBLE FOR THE EARTH SCIENCES DEPARTMENT OF THE FRAMEWORK AGREEMENT FOR SCIENTIFIC COOPERATION AMONG UNIVERSITY OF TORINO (Earth Sciences Department, Department of Chemistry, Department of Management and Department of Agricultural Sciences), F.S.C – FORMAZIONE SICUREZZA COSTRUZIONI TORINO, ATHENA ART di LONGHITANO A. and CNA Associazione – Città Metropolitana di Torino.**

Object of the Agreement: cooperation on research, teaching, implementation and dissemination activities about circular economy in the building sector, focusing on the formulation of sustainable and innovative geomaterials, in the field of green building and restoration.

**Period: December 2024 – October 2027**

**SCIENTIFIC RESPONSIBLE OF THE FOR THE FRAMEWORK AGREEMENT FOR SCIENTIFIC COOPERATION BETWEEN UNITO (Earth Sciences Department) and UNIVERSIDADE DE SÃO PAULO (Escola Politécnica da Universidade de São Paulo).**

Object of the Agreement: joint didactic and/or scientific activities in all fields of knowledge considered to be of mutual interest, which may contribute to the development and deepening of activities conducted by the signatory institutions (focus on sustainable mining and circular economy in extractive industry).

**Period: February 2025- January 2030**

**PRINCIPAL INVESTIGATOR AND RESEARCH ACTIVITIES FOR EXCHANGE WITH MOZAMBIQUE, CONNECTED TO THE ERASMUS+ 2024 KA171 INTERNATIONAL MOBILITY INVOLVING THIRD COUNTRIES NOT ASSOCIATED TO THE PROGRAMME (PARTNER COUNTRIES)**

Partners: Mozambique (Instituto Superior De Ciencias E Tecnologia De Mocambique - ICSTEM), Etiopia (Addis Ababa University, Bahir Dar University, Dire Dawa University, Wollo University, Dilla University, Jinka University), Uganda (Makerere University)

**Period: 01.08.2024 – 31.07.2027**

**RESEARCH ACTIVITIES RELATED TO THE SAFE PROJECT, funded by PNRR NODES (II call 2023).**

Coordinator: Scuderia 1918. Partners: UNITO (Departments of Veterinary, Chemistry, Earth Sciences, and DISAFA).

**Period: 01.06.2024 – 30.11.2024.**



PRINCIPAL INVESTIGATOR FOR THE CONSULTING ACTIVITY TITLED: "STUDY OF SUSTAINABLE SOLUTIONS FOR THE MANAGEMENT AND RECOVERY OF MINERAL WASTE".

Client of the consulting activities: Eng. Claudia Chiappino (freelance consultant)

**Period: 01.04.2024-30.06.2024.**

RESEARCH ACTIVITY FOR PUBLIC ENGAGEMENT – UNITO, titled "Roleplay on Environmental Education With an Interdisciplinary and Novel Didactic" (REWIND).

Scientific Responsible for UNITO: Prof. Manuela Repetto (Department of Philosophy and Education Sciences)

**Period: 01.05.2024 – in progress**

RESEARCH ACTIVITIES FOR THE NATIONAL PROJECT PRIN 2022 TITLED "EUREECA (Rare Earth Elements in Urban and mining aReas: an EmErging Concern for soil (and human) health)"

Coordinator: UNITO (Department of Agricultural Sciences, Department of Chemistry and Earth Sciences Department)

Partners: University of Sassari, CNR.

**Period: 28.09.2023-27.09.2025**

**Project budget: 312.053€**

PRINCIPAL INVESTIGATOR AND RESEARCH ACTIVITIES FOR THE DST-SRM Project, funded by PoC (Academic call for proposals) - Spoke 2 (CUP D17G22000150001) - PNRR - NODES - Nord Ovest Digitale E Sostenibile. Title of the project: "Decision Support Tool to assess the Sustainability in the Recovery of Second Raw Materials (Raw Materials, even Critical) from mineral waste".

Coordinator: UNITO (Earth Sciences Department and Department of Management)

Partners: University of Western Piedmont, Soc. Minerali Industriali s.r.l., Eng. Claudia Chiappino (freelance consultant).

**Period: 30.11.2023 – 31.05.2025**

**Project budget: 90.300€**

PRINCIPAL INVESTIGATOR AND RESEARCH ACTIVITIES FOR THE ERASMUS-EDU-2022-CBHE PROJECT GEODES (Geosciences, Development and Sustainability: Africa and Europe together). [Geociências, Desenvolvimento e Sustentabilidade \(uc.pt\)](#)

Coordinator: University of Coimbra

Partners: University of Salamanca (Spain), University of Torino (Italy), University Agostinho Neto (Angola), University Katavala Bwila (Angola), University Mandume Ya Ndemufayo (Angola), University Eduardo Mondlane (Mozambique), University Lurio (Mozambique), University Pungue (Mozambique)

**Period 2022-2025 (36 months)**

**Project budget: 399.985,00 €**

RESEARCH ACTIVITIES FOR THE FRAMEWORK AGREEMENT FOR RESEARCH ACTIVITIES FOCUSED ON THE IMPROVEMENT OF THE KNOWLEDGE OF THE HYDROGEOLOGICAL STRUCTURE OF THE PIEDMONT PLAIN.

Coordinator: ARPA Piemonte

Partners: Regione Piemonte, University of Torino (Earth Sciences Department), Institute of Geosciences and Georesources of the National Research Council (CNR-IGG).

Scientific Director: Prof. Domenico Antonio De Luca.

**Period: 01.01.2022-31.12.2023.**

PRINCIPAL INVESTIGATOR AND RESEARCH ACTIVITIES FOR THE PROJECT GRANT FOR INTERNATIONALISATION. LINE 4. Title of The Project: Guidelines And Best Practices To Improve Territorial Circular Clusters. Funded by MUR (*MINISTERO DELL'UNIVERSITA' E DELLA RICERCA*).

Coordinator: Earth Sciences Department (UNITO)

Partners: DISAFA and Management Department (UNITO) and University of Zaragoza (Spain)

**Period: 01.09.2022-31.12.2023**

**Project Budget: 7.500€**

PRINCIPAL INVESTIGATOR OF THE RESEARCH MODULE – RM1 AND RESEARCH ACTIVITIES OF THE PROJECT GRIP (Green processes for Industrial Productions and cost-effective effluents valorization), ASSOCIATED TO THE PNRR PROJECT TITLED NODES ("*Nord Ovest Digitale e Sostenibile*") funded by EU thanks to NextGenerationEU action - Grant agreement no. ECS00000036) - SPOKE 2- Green technologies and sustainable industries. The RM1 of GRIP project focuses on Circular Cluster associated to mineral waste managing and recycling.

Coordinator of NODES: Polytechnic of Torino

Academic Partners: University of Torino, University of East Piedmont, University of Insubria, University of Pavia, University of Valle D'Aosta, Università degli Studi di Scienze Gastronomiche, Università Cattolica del Sacro Cuore

Other Partners: Fondazione Torino Wireless; Envipark - Environment Park SpA; BioPMed - Bioindustry Park Silvano Fumero SpA; Proplast - Consorzio per la promozione della cultura plastica; Città Studi di Biella - Città Studi S.p.A; M.I.A.C. Scpa – Polo; AGRIFOOD; Fondazione LINKS; Istituto Auxologico Italiano; Ospedale Maggiore della Carità di Novara; Fondazione Montagna Sicura; ERSAF - Ente Regionale per i Servizi all'Agricoltura e alle Foreste (Lombardia); I3P S.c.p.a. – Business Incubator of Politecnico di Torino; 2i3T – Business Incubator of Università di Torino; Sviluppo Como ComoNExT spa; OGR-TECH; CIM4.0.

**Period: 01.10.2022-30.03.2026**

**Project budget: 110M€**

Coordinator of GRIP: University of Torino

Academic Partners: Polytechnic of Torino, University of Pavia, University of Eastern Piedmont, University of Insubria, Università Cattolica del Sacro Cuore, University of Sannio

PRINCIPAL INVESTIGATOR FOR THE CONSULTING ACTIVITY TITLED "ACTIONS FOR THE SUSTAINABLE CLOSURE OF THE JULCANI – BONAVENTURA MINING SITE (PERU)".

Client of the consulting activities: Hatch s.p.a. (Perù)

Period: 01.07.2022 – 30.09.2022

Budget: 18.000€

PRINCIPAL INVESTIGATOR AND TEACHING ACTIVITIES ON TOPICS CONNECTED TO CIRCULAR ECONOMY AND EXTRACTIVE INDUSTRIES IN THE VERBANO CUSIO OSSOLA QUARRY (VCO) BASIN, FOR THE CRT PROJECT "CONNESSI CON L'AMBIENTE".

Beneficiary of the CRT project: Cooperativa Sociale Risorse - Verbania

Period 02.03.2022 – 15.09.2022

RAEARCH ACTIVITIES AND DST-UNITO REFERRING PERSON FOR THE TASK GROUP WORKING ON CIRCULAR ECONOMY FOR THE ERASMUS + KNOWLEDGE ALLIANCES PROJET TITLED "UNIVERSITAS MONTIUM (UNITA)". [univ-unita.eu/Sites/](http://univ-unita.eu/Sites/)

Coordinator: University of Torino

Patners: Universidade da Beira Interior - UBI Portugal; Universidad de Zaragoza - UNIZAR Spain; Université de Pau et des Pays de l'Adour - UPPA France; Université Savoie Mont Blanc - USMB France; Universitatea de Vest din Timișoara - UVT Romania

Period: 2020- in progress

PROJECT LEADER for UNITO UNIT (External Partner) and RESEARCH ACTIVITIES RELATED TO THE PROJECT IGCP- 746. RESOURCES4ALL.

Coordinator: Prof. Dolores Pereira (University of Salamanca).

Period: 2021-2024.

RESEARCH ACTIVITIES RELATED TO THE PROJECT FOR PUBLIC ENGAGEMENT – UNITO, titled "Escape To learn".

Scientific Responsible for UNITO: Prof. Alessandra Bianco Prevot (Department of Chemistry).

Period: 01.11.2021-31.12.2022

RESEARCH ACTIVITIES RELATED TO THE H2020- LC-CLA-2018-2019-2020 (Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement) PROJECT, TITLED: Global drivers, local consequences: Tools for global change adaptation and - 20 - sustainable development of industrial and cultural Arctic "hubs" (ARCTIC HUB). Grant agreement no.: 869580. [ArcticHubs - ArcticHubs \(luke.fi\)](http://ArcticHubs - ArcticHubs (luke.fi))

Coordinator: Luke – Luonnonvarakeskus, Finland

Partners: UniLap – Lapin yliopisto, Finland; Mapita – Mapita Oy, Finland; RHA – Paliskuntain yhdistys, Finland; SLU – Sveriges Lantbruksuniversitet, Sweden; LTU – Luleå Tekniska Universitet, Sweden; Gran – Grans Sameby, Sweden; NORCE – NORCE Norwegian Research Centre AS, Norway; MGP – Magma Geopark AS, Norway; NINA – Stiftelsen Norsk Institutt for Naturforskning NINA, Norway; Nofima – Nofima AS, Norway; RCC – Rogaland Fylkeskommune, Norway; UoI – Háskóli Íslands, Iceland; HU – Hólabólaskóli Hólabólaskólinn á Hólum, Iceland; KSC RAS – Kola Science Centre of the Russian Academy of Sciences, Russia; Touch – Touch TD Ltd, United Kingdom; BOKU – Universität für Bodenkultur Wien, Austria; UNITO – Università degli Studi di Torino, Italy; GINR – Grønlands Naturinstitut, Greenland; UoF – Fróðskaparsetur Føroya, Faroe Islands; Dalhousie – Dalhousie University, Canada; SOGSÁKK – Sámi Education Institute, Finland.

Scientific Responsible for UNITO: Prof. Marco Giardino

Personal role: UNITO referring person for the Mining Hub

Period: 01.09.2020 – In progress (48 months in total)

PROJECT LEADER for UNITO UNIT and RESEARCH ACTIVITIES RELATED TO THE PROJECT HerSTONES (Heritage Stones Recognition: A Step Forward). IGCP CALL 2019 (area of interest for IGCP: Earth Resources). Project n. 637

Coordinator: Politecnico di Torino.

Partners: Department of Earth Sciences, University of Torino (Italy); Centre for Mineral Technology – Ministry of Science, Technology (Brazil); Department of Geology, Panjab University (India); Secretary of Mining of the Córdoba Province (Argentina); Universidad Santo Tomás (Colombia); Department of Geology, Eduardo Mondlane University (Mozambique).

HerSTONES aims at promoting new Global Heritage Stone Resources (GHSR) nominations of stones amongst emergent countries together with the collection of new GHSR from developed countries. It will disseminate the results not only by means of conventional modes as the editing papers in international scientific journal (e.g. Episodes, Geological society of London, Sustainability, etc.), but also by means of new innovative networking opportunity, such as a common interactive platform on Heritage Stones, which will be active to updated the information about the heritage stones and their use in historical building and monuments. Furthermore, it aims at enlarging the cooperation thanks to a more interdisciplinary approach, involving young and female researchers in meetings, research projects and publications in effective collaboration with senior researchers and innovative laboratories.

Period: 2020 – in progress (36 months in total)

CONTACT PERSON for UNITO as STAKEHOLDER FOR THE PROJECT TITLED: RIS-ALICE - Al-rich industrial residues for mineral binders in ESEE region.

Coordinator: Slovenian National Building and Civil Engineering Institute (ZAG)

Period: 2020 – 2022

PROJECT MANAGER FOR UNITO, MEMBER OF THE STEERING COMMITTEE, TASK LEADER UNITO for WP2, AND RESEARCH ACTIVITIES RELATED TO THE PROJECT SUGERE (Sustainability and Wise Use of Geological Resources) – ERASMUS PLUS (Capacity Building). <https://sugere.org>

Coordinator: University of Coimbra. Responsible: Prof. Nelson Rodrigues.

Partners: University of Salamanca (Spain), Universidade De Cabo Verde (Capo Verde), Universidade De Santiago (Capo Verde), Universidade Agostinho Neto (Angola), Instituto Superior Politécnico Tundavala (Angola), Universidade Eduardo Mondlane (Mozambique), Instituto Superior De Ciências E Tecnologia De Moçambique (Mozambique), Centro De Estudos Sociais (Portugal).

Scientific Responsible: Prof. Domenico Antonio De Luca

**UNITO budget: 56 911,00 €**

**Total Budget: 969 318,00 €**

**Period: 15.01.2019- 15.09.2023**

PRINCIPAL INVESTIGATOR FOR UNITO and PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES RELATED TO THE PROJECT CHARROCK (Characterization of Geomaterials)

Coordinator: University of Salamanca.

Partners: Università di Torino, Minas y Geología s.l., INTROMAC, Universidade de Coimbra, Universidade de Porto, Instituto Tecnológico de la Cerámica.

Aim of the project: cooperation among partners involved in the knowledge transfer, research, projects and joint collaborations within universities and companies, on issues concerning the valorisation of stone and mineral georesources (exploitation of waste and extractive waste, sustainable mining, geocultural valorisation).

**Period: 05.06.2017 – 2019**

PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES FOR THE UNITO PROJECT CSP2016. GEODIVE – from rocks to stones, from landform to landscape.

Involved in the research group 02 (Cultural Geoheritage).

Scientific Responsible: Prof. Marco Giardino

**Period: 01.05.2017 – 2020**

PROJECT MANAGER FOR UNITO and PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES RELATED TO THE REMEDIATE PROJECT: EU Horizon 2020 Marie Skłodowska Curie. Grant Agreement N. 643087. (<http://www.remediate.eu/>)

Coordinator: Queens University of Belfast (UK)

Partners: Università degli Studi di Torino, Dublin City University (Ireland), Cranfield University (UK), University of Duisburg-Essen (Germany), TU Dortmund University (Germany), SUPREN GmbH (Germany), University of Copenhagen (Denmark).

Associated partners: Wessling GmbH (Germany), University of Toronto Scarborough (Canada), Geological Survey of Northern Ireland (UK), British Geological Survey (UK), Geological Survey of Ireland (Ireland), Geological Survey of Denmark & Greenland (GEUS) (Denmark), Stevens Institute of Technology (USA), Whiteford Geoservices Ltd (UK), Horizon srl (Italy), Network for Industrially Contaminated Land in Europe (NICOLE) (Netherlands), Belfast City Council (UK), Department of Agriculture, Environment and Rural Affairs (DAERA) (UK), RSK Group Ltd (UK), Institute of Urban Environment, Chinese Academy of Sciences (China), Golder Associates (UK), Institute of Astronomy, Geophysics, Atmospheric Sciences, University of Sao Paulo (Brazil), Civil and Environmental Engineering, University of California Berkeley (USA), BioMEMS and Bioinspired Microfluidic Laboratory, University of Calgary (Canada).

Scientific Responsible for UNITO: Prof. Domenico A. De Luca

**UNITO budget: 258.061€.**

**Total Budget: 3.725.266,32 €**

**Period: 01.01.2015 – 31.12.2018**

PROJECT MANAGER FOR UNITO and PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES RELATED TO mineral

Coordinator: ENCO engineering&consulting s.r.l.

Partners: Università degli Studi di Torino (Scientific Coordinator), XAMK (Mikkeli University of Applied Sciences, Finland), GTK (Geologian Tutkimuskeskus, Finland), VTT (Technical Research Centre of Finland Ltd), University of Pécs (Hungary), Cranfield University (UK), Regione Piemonte (Italy), IMAGEO srl (Italy), Atos SE (Spain), Bioazul (Spain), MKM consulting (Hungary), Bayzoltan (Hungary), Metsasairila Oy (Finland)

Scientific Responsible: Prof. Piergiorgio Rossetti

**UNITO Budget: 312.400€**

**Total Budget: 2.496.800,10€**

**Period: 01.10.2015 – 31.03.2018**

SCIENTIFIC RESPONSIBLE, TOGETHER WITH PROF. PIERGIORGIO ROSSETTI, OF THE RESEARCH ACTIVITY AND COLLABORATION BETWEEN EARTH SCIENCES DEPARTMENT – UNITO AND MINERALI INDUSTRIALI SPA, ABOUT STUDIES CONNECTED TO INDUSTRIAL MINERALS CHARACTERISATION AND EXPLOITATION.

**Period: 16.03.2015 – August 2019**

PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES RELATED TO EDULINK II (2013) titled RU.S.S.A.D.E.: "Réseau des Universités Sahéliennes pour la Sécurité Alimentaire et la Durabilité Environnementale. ([www.russade.eu](http://www.russade.eu))

Coordinator: Cisao-Università di Torino.

Partners: Niger (Abdou Moumouni University of Niamey and Regional Center of Specialized Teaching in Agriculture), Chad (Abéché National



Institute of Sciences and Techniques) and Burkina Faso (Polytechnic University of Bobo Dioulasso).

**Total budget: 905.162,50 €.**

**Period: 11.10.2013 – 10.04.2017.**

**PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES FOR THE UNITO PROJECT - CSP2011. PROGEO-Piemonte: PROactive management of GEOlogical heritage in the PIEMONTE region: innovative methods and functional guidelines for promoting geodiversity knowledge and supporting geoconservation activities (PROGEO-Piemonte).**

Involved in the research groups: Progeo07 (Brosso e Traversella mining sites) e Progeo 09 (Torino stones valorisation).

Scientific responsible: Prof. Marco Giardino

**Period: 28.02.2012 – 28.02.2015**

**SCIENTIFIC RESPONSIBLE, TOGETHER WITH PROF. DOMENICO ANTONIO DE LUCA, OF THE RESEARCH ACTIVITY TITLED: "DIMENSION STONES OF THE MAJOR LAKE AND OSSOLA VALLEY: EXPLOITATION OF THE RESIDUAL SLUDGE CONNECTED TO STONE WORKING ACTIVITIES IN VCO QUARRY BASIN".**

Coordinator: Chambre of Commerce of Verbania (VCO).

**Period: 01.09.2012–01.01.2014.**

**PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES OF THE C.I.S.A.O. (INTERDIPARTIMENTAL CENTER FOR RESEARCH AND TECHINICAL-SCIENTIFIC COOPERATION WITH AFRICA) ([www.cisao.unito.it](http://www.cisao.unito.it)).**

The C.I.S.A.O. includes various Departments of the University of Torino (Department of Earth Sciences; Department of Chemistry; Department of Culture, Politics and Society; Department of Economics and Statistics "S. Cognetti de Martiis"; Department of Law; Department of Agricultural Sciences, Forestry and Food; Department of Veterinary Sciences) and the Polytechnic of Torino (Inter-university Department of Sciences, Project And Policies of the Territory, DIST) that have in common research and cooperation interests with African countries, in particular the Sahelian area. The African partners are Universities, Research Institutions, Ministries, Local Authorities, NGOs, Associations, Schools of different order.

**Period: 17.4.2012 – in progress** (Member of the Scientific coordinating group).

As part of the research carried out with CISAQ, in addition to the RUSSADE project, the writer was involved in the Niger research group which included the Department of Earth Sciences (UNITO), the Faculté d'Agronomie of the Université Abdou Moumouni de Niamey (Niger), and the Faculté des Sciences et Techniques, Université Abdou Moumouni de Niamey (Niger). The carried out activities concerned the management of geo-resources and groundwater resources in Niamey. UNICOO call (UNITO for International Cooperation) 2013, titled: "Environmental and territorial problems of urban areas in a desert environment; the case of Niamey (Niger): management of groundwater resources and water supply; management and development of recycled aggregate production"

Scientific responsible: Prof. Domenico A. De Luca.

**Period: 01-02-2014 – 01-03-2014**

**PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES, FUNDED BY AFIB SPA, CONCERNING: "RESIDUAL SLUDGE TREATMENT TO PRODUCE A SUBSTRATE FOR AGRICULTURAL PURPOSES".**

Scientific responsible: Prof. Mauro Fornaro.

**Period: 01.03.2011-30.09.2011**

**RESEARCH ACTIVITIES CONCERNING THE EXPLOITATION OF C&DW AND ROCKS AND SOILS FROM EXCAVATION WORKS FOR ENVIRONMENTAL REHABILITATION.**

Scientific responsible: Prof. Mauro Fornaro.

**Period: 01.05.2009-31.12.2011**

**PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES FOR THE INTERREG IIIA (Val d'Ossola – Italia/ Canton Ticino – Svizzera) PROJECT, TITLED: O.S.M.A.T.E.R. (Osservatorio Subalpino Materiali Territorio Restauro).**

Coordinator: Chamber of Commerce Industry Handicraft Agriculture of the Verbano Cusio Ossola district.

Scientific Partners: Polytechnic of Torino, University of Torino, University of Milano Bicocca, University of Bologna, University of Applied Sciences and Environment Department of Italian-speaking Switzerland.

Partners: VCO District, Confartigianato Novara-VCO, Assocave, Assograniti, Giacomini s.p.a.

Scientific responsible for UNITO: Prof. Mauro Fornaro

**UNITO budget: 104.000,00€.**

**Total Italian budget: 425.000,00€**

**Period: 01.01.2005 – 31.12.2007.**

**PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES CONNECTED TO HERITAGE STONE E GEOHERITAGE.**

Since 2005, the writer has been involved in research concerning the study and enhancement of the Italian geomining heritage, working mainly on issues related to the enhancement of mining and dressing activities as a historical-cultural heritage to be preserved. The studies mainly concerned the historical ornamental and dimension stones from Piemonte Region (such as Lake Granites, Serizzi, Beole, Candoglia and Ornavasso marbles, Crevoladossola dolomite, Luserna Stone, Bargiolina, etc.); focusing mainly on some quarrying basins (Verbano Cusio Ossola, Luserna Stone, Dora Maira Unit), the extraction and processing activities and their application in historical and cultural buildings and in more rural contexts (villages, roads, dry stone walls, fountains, etc.). In addition to the heritage stones, the study of historical mining

activities, such as those in the Brozzo-Traversella, Val Sesia, Vallestrona and Valle Anzasca areas, has also been carried out.

**Period: from 2005 – in progress.**

Thanks to the carried out research, from 2014 the writer is Member of the Heritage Stone Working Group. The Heritage Stone Task Group (HSTG) has been established as a formal entity both of the "International Union of Geological Sciences" (IUGS) and "Commission C-10 - Building Stones and Ornamental Rocks" of the "International Association for Engineering Geology and the Environment" (IAEG C-10). HSTG leads the Global Heritage Stone (GHS) project, dealing with the establishment of a new formal international geological designation for those natural stone materials that have achieved widespread use and recognition in human culture. It also aims to formalize specific characteristics of a dimension stone in an internationally accepted context".

**Period: 01-06.2014 – in progress**

#### **PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES CONNECTED TO THE INTERREG PIC-IIIa (Val d'Ossola – Italia/Canton Ticino – Svizzera) PROJECT, TITLED: "Exploitation of the residual sludge produced during dimension stone working activities".**

Italian Coordinator: VCO District

Swiss Coordinator: Industrial association for granites, marbles and stones from Ticino.

Scientific Partners: Polytechnic of Torino Torino, University of Torino, University of Milano Bicocca, University of Italian Switzerland, Republic and Canton Ticino - Air, water and soil protection section, Dionea SA.

Associated partners: Piemonte Region, Tecnoparco del Lago Maggiore, Chambre of Commerce VCO, Bettazza Graniti SA, Compodino SA, Internazionale Graniti s.p.a., Banca Pololare di Intra, Assograniti.

**POLITO budget: 42.900€.**

**Total budget for Italy: 125,409€**

Scientific Responsible at POLITO: Prof. Renato Mancini.

**Period: 01.12.2002 – 31.12.2005**

#### **PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES DEALING WITH MANAGEMENT AND SECONDARY RAW MATERIALS' RECOVERY OF C&DW AND ROCKS AND SOILS FROM EXCAVATION WORKS.**

Since 2002, the writer has dealt with studies relating to the management and recovery of C&DW and Rocks and Soils from excavation works, cooperating with: Torino District (now Metropolitan City of Torino), VCO District, Piemonte Region, Lombardy Region, ARPA, UNIMIN, ANPAR, UNIONCAMERE, Polytechnic of Turin, CAVIT, Cave Germaire, Dual, Cave Moncalieri, Perino Escavazioni, Soc. CORINTEA, ANPAR.

#### **PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES DEALING WITH MANAGEMENT AND SECONDARY RAW MATERIAL RECOVERY OF EXTRACTIVE WASTE.**

Since 2001, the writer has promoted and has been involved in research activities related to the efficiency in the management and recovery of extractive waste. Over the years profitable partnerships have been established with various national and international companies, such as: Centro Servizi Lapideo VCO, Chamber of Commerce of Verbania, Torino district (now Metropolitan City of Turin), VCO District, Piemonte Region, Lombardy Region, ARPA, UNIMIN, Assograniti, Confartigianato Imprese Piemonte Orientale, Polytechnic of Milan, Polytechnic of Turin, University of Milano Bicocca, University of Cagliari, Minerali Industriali spa, AGIFIN, ACEA Pinerolese, Horizon srl (Torino), Swedish Cement and Concrete Institute - CBI (Sweden); Geological Survey of Finland - GTK (Finland), Norwegian University of Science and Technology (Norway), SINTEF group (Norway), Charles University in Prague - Institute of Geophysics, Mineralogy and Mineral Resource (Czech Republic), Cranfield University (UK), Queens University Belfast (UK), University of Pecs (HU), University of Salamanca, University of Coimbra, Slovenian National Building and Civil Engineering Institute (ZAG), Stone Technology Center Pvt (India), Bay Zoltan Ltd (HU), Carrara Marble Way srl (Carrara), ANIM.

## **ANNEX 4 – TEACHING ACTIVITIES**

### **TEACHING AND SUPPORTING ACTIVITIES AT UNIVERSITY OF TORINO**

**I Semester A.A. 2024-2025** Bachelor Course: Engineering geology and elements of geotechnics (Cod. STE0053). 6 hours in total (lessons: 6 hours)

**I Semester A.A. 2024-2025** Master Course: Hydrogeological risk (Cod. MFN1205). 16 hours (lessons: 16 hours)

**I Semester A.A. 2024-2025** Master Course: Quarry and Environmental Rehabilitation (Cod. STE0106). 34 hours (lessons: 18 hours; field activities: 16 hours)

**A.A. 2024-2025** Supervisor for the curricular training activities at the Laboratory of Mineral Dressing and Sampling (Earth Sciences Department – UNITO). Trained students: Manuela Merlino (100 hours) and Matteo Falcone (100 hours).

- Academic Supervisor for the curricular training activities at Planeta Studio Associato. Trained students: Edoardo Ceccon (100 hours).
- A.A.2024 – in progress** Tutor of a Master Student Dr. Fiorenza Palmieri. Title of the Thesis: “Mineral waste exploitation for the production of technosols for environmental applications”. Master in Environmental Biology.  
Tutor of the Bachelor Student Edoardo Ceccon. Title of the Thesis: “Installation of solar and photovoltaic panels in quarry areas”. Bachelor in Earth Sciences.
- II Semester A.A 2023-2024** Online lessons for the modules: “Circular Economy in extractive industry”; “Mining Impacts and Risk Analysis” and “Cultural Heritage and Stones”. GEODES Project. 18 hours co-tutored by Dr. Susanna Mancini and Francesca Gambino.
- II Semester A.A 2023-2024** Master Course: Laboratory of applied hydrogeology and technical geology (Cod. STE0107). 28 hours (lessons: 18 hours; exercises: 10 hours)
- 2023-2026** Co-Tutor of a PhD fellow Linda Zaniboni. Title of the PhD project “Evaluation of potentialities and challenges connected to extractive waste management. Risk assessment and chance to recover RM from extractive waste facilities”. Main Tutor: Prof. Domenico Antonio De Luca.
- A.A. 2023-2024** Supervisor for the curricular training activities at the Laboratory of Mineral Dressing and Sampling (Earth Sciences Department – UNITO). Trained students: Dr. Laura Turbessi (50 hours) and Giacomo Zulato (50 hours).  
Academic Supervisor for the curricular training activities at MINERALI INDUSTRIALI s.r.l. Trained students: Giacomo Zulato (100 hours).
- 01.05.2024-30.04.2025** External Co-Tutor of the PhD Fellow Zhikai Yu (University of Science & Technology Beijing, Civil & Resource Engineering School). Title of the PhD Project: “Kinetics and control mechanism of self-cementing reaction of hemihydrate phosphogypsum based on initial temperature effect”. Main Tutors: Yiming Wang and Aixiang Wu (University of Science & Technology Beijing).
- I Semester A.A. 2023-2024** Master Course: Hydrogeological risk (Cod. MFN1205). 16 hours (lessons: 16 hours)
- I Semester A.A. 2023-2024** Master Course: Quarry and Environmental Rehabilitation (Cod. STE0106). 34 hours (lessons: 18 hours; field activities: 16 hours)
- 01.02.2023-31.01.2024** External Co-Tutor of the PhD Fellow Xinyan Zhao: School of Mining Engineering, Anhui University of Science and Technology. Beijing, China. Research area: “Solid waste backfill mining in mining field and chance for new products from extractive waste”. Main Tutor: KeYang (Anhui University of Science and Technology).
- II Semester A.A 2023-2024** Classes for the Master “Green Manager”. Teaching: Techniques and technologies for Circular Economy. Topics: Circular Economy and Extractive Industry. (8 hours).
- I Semester A.A 2023-2024** Master Course: Hydrogeological risk (Cod. MFN1205). 16 hours (lessons: 16 hours)
- I Semester A.A 2023-2024** Master Course: Quarry and Environmental Rehabilitation (Cod. STE0106). 34 hours (lessons: 18 hours; field activities: 16 hours)
- I Semester A.A 2023-2024** Bachelor Course: Engineering geology and elements of geotechnics (Cod. STE0053). 12 hours in total (lessons: 6 hours, field activity: 6 hours)
- II Semester A.A 2022-2023** Master Course: Laboratory of applied hydrogeology and technical geology (Cod. STE0107). 28 hours (lessons: 18 hours; exercises: 10 hours)
- A.A. 2022-2023** Supervisor for the curricular training activities at the Laboratory of Mineral Dressing and Sampling (Earth Sciences Department – UNITO). Trained students: Dr. Antonio Tazzini (trained fellow for the Master Class in Mining engineering applied to ornamental stone quarries (II edition), organized by POLITO).

- I Semester A.A. 2022-2023** PhD Course: Sustainable management of mineral waste: from excavation activities (rocks and soils from excavation - RSE), from building industry (construction and demolition waste – C&D), and from mining activity (RAE). (Cod STE0126). 12 hours (lessons: 12 hours).
- I Semester A.A 2022-2023** Master Course: Hydrogeological risk (Cod. MFN1205). 16 hours (lessons: 16 hours)
- I Semester A.A 2022-2023** Master Course: Quarry and Environmental Rehabilitation (Cod. STE0106). 28 hours (lessons: 18 hours; field activities: 10 hours)
- I Semester A.A 2022-2023** Bachelor Course: Engineering geology and elements of geotechnics (Cod. STE0053). 6 hours in total (lessons: 6 hours)
- 2022-2025** Co-Tutor of a PhD fellow Marco Casale (cotutoring with Department of Management – UNITO). Title of the PhD project "Mineral waste sustainable management and by-products and new products application at territorial level".
- II Semester A.A 2021-2022** Master Course: Geological Field investigation (Cod. STE0050). 28 hours in total (exercises: 12 hours; field trip: 16 hours)
- II Semester A.A 2021-2022** Master Course: Applied Hydrogeology (Cod. MFN0924). 24 hours in total (lessons: 6 hours, exercises: 18 hours)
- I Semester A.A 2021-2022** Bachelor Course: Engineering geology and elements of geotechnics (Cod. STE0053). 18 hours in total (lessons: 6 hours, exercises: 4 hours; field trip: 8 hours)
- February 2021** Online lessons: "Sustainable Mining and Circular Economy associated to Extractive Industry". (Lessons: 10 hours). SUGERE Project – teaching activities with Angola Partners.
- June 2019** PhD Course: "Sustainable Mining: resource efficiency and environmental risks associated to extractive activity". (Lessons: 10 hours; field activity: 8 hours). PhD in Earth Sciences - University of Torino.
- October 2017** Seminar and workshop: "Landfill mining and circular economy approach applied to extractive waste facilities". (Seminar: 3 hours. Workshop: 4 hours). ESAIP LA SALLE graduate engineering school specialized in Digital science and Computer network and Risk prevention, Health, Safety and Environmental management.
- June-July 2016** PhD Course: "Quarry and mining waste: characterization, impacts, management and exploitation". (Lessons: 12 hours; field activity: 8 hours). PhD in Earth Sciences - University of Torino.
- January 2016** PhD Course: "The Earth Sciences within European funding programmes (Horizon 2020, Life plus, Interreg projects)" (6 hours). PhD in Earth Sciences - University of Torino.
- May 2015** PhD Course: "Exploitation and management of extractive waste (EW), rock and soil from excavation works (RSW) and construction and demolition waste (C&DW)". (Lessons: 12 hours; field activity: 16 hours). PhD in Earth Sciences - University of Torino.
- February 2015** PhD Course: "The Earth Sciences within European funding programmes (Horizon 2020, Life plus, Interreg projects)" (6 hours). PhD in Earth Sciences - University of Torino.
- 2015-2018** Co-Tutor of Dr. Neha Mehta, PhD Fellow linked to the Horizon 2020 Marie Skłodowska Curie project - REMEDIATE (Grant Agreement N. 643087). Title of the PhD thesis "Reusing mineral waste materials for restoring land sustainability: current problems and future prospects"
- October 2014 – March 2015** Collaboration with Prof. Michele Negre and Maria Paola Luda (UNITO) and dr Abdourahamane TANKARI DAN-BADJO, Département Sciences du sol, Faculté d'agronomie, Université Abdou Moumouni de Niamey, for teaching activities in the module: "Gestion des déchets et recyclage dans le cadre de Master RUSSADE". RUSSADE project

(Project "Réseau des Universités Sahéliennes pour la Sécurité Alimentaire et la Durabilité Environnementale - RU.S.S.A.D.E.). ([www.russade.eu](http://www.russade.eu)).

- 24 January 2014 Seminar (3 hours) titled: "Comparative illustration of the EU directives about rocks and soils from excavation activities. Case Hystories" for the Environmental Agrochemistry course of the Master of Science in Agricultural Sciences. University of Torino.
- October 2013 Phd Course: "Exploitation and management of extractive waste" (Lessons: 8 hours; field activity: 8 hours). Phd in Earth Sciences - University of Torino.
- July 2013 Phd Course: "Management of rocks and soils from excavation works" (Lessons: 8 hours; field activity: 8 hours). Phd in Earth Sciences - University of Torino.
- May 2011 Supporting activities (lessons: 14 hours) for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
- May 2010 Supporting activities (lessons: 7 hours) for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
- March 2010 Supporting activities (lessons: 2 hours) for the course "Quarrying exploitation and environmental rehabilitation" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
- May-June 2009 Supporting activities (lessons: 9 hours) for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
- November 2008 Supporting activities (lessons: 2 hours) for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
- May-June 2008 Supporting activities (lessons: 8 hours) for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
- May-June 2007 Supporting activities (lessons: 10 hours) for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
- May-June 2006 Supporting activities (lessons: 10 hours) for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
- December 2003 – January 2004 Supporting activities for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences – University of Torino.
- October – December 2002 Supporting activities for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
- March – June 2002 Supporting activities for the course "Quarrying exploitation and environmental rehabilitation". Polytechnic of Torino.
- AA 1998-1999 Collaboration, as part-time student, for teaching support, at the Department of Georesources and Territory of the Polytechnic of Turin (DIGET). The activities concerned:
- collaboration with teachers for the following courses: Mineral Deposits, Lithology and Geology, Applied Geology, Rocks and Industrial Minerals. Supporting activities during the courses and for recognition of rocks and minerals
  - reorganization and cataloging of the didactic collections of rocks and minerals present at DIGET (Polytechnic of Torino)
  - cataloging of geological maps

## TEACHING and SUPPORTING ACTIVITIES (for entities other than UNITO)

- 27.02.2025 Lecturer for a seminar for the Order of Geologists of Tuscany. Title of the speech: "Energy and digital transition: needs and strategies for sustainable raw materials, critical raw materials and



strategic raw materials supply.

December 2024 – in progress	<p>Guest Lecturer for the <i>Scuola di Alta Formazione – Marmo e Pietre Naturali</i>.  2 hours for the Teaching Module 4: Quarrying Activities – focus on environmental impacts of quarrying activities  2 hours for the Teaching Module 5: Processing Activities – focus on environmental impacts associated to dimension stone working phase  4 hours for the Teaching Module 10: Challenges for quarry industry: innovation, digitalisation, circular economy, sustainability – focus on extractive waste from dimension stones: re-use, recovery, recycling.</p>
01.10.2024	Lecturer for a seminar at the University of Minho (Braga, Portugal). Title of the speech: "Raw materials and Critical raw material supply: challenges for extractive industry".
23.11.2023	Lecturer for a seminar at the University of Minho (Braga, Portugal). Title of the speech: "Sustainable mining and circular economy in extractive industry".
15.11.2023	Lecturer for two seminars at University of Chieti. Title of the speech: "Circular Economy and extractive industry" and "Raw materials supply: from quarry to building applications"
18.10.2023	First opponent for the trial lecture and disputation of the Doctoral Dissertation for the Degree Philosophiae Doctor (PhD) thesis titled: "Improving the technical properties of recycled aggregates for road construction" by Dr. Solomon Adomako. University of Agder, Faculty of Engineering and Science, Specialization in Civil Engineering. Norway.
17.06.2022 & 02.09.2022	Guest Lecturer, teaching "Circular economy in extractive industry". Lessons for teachers of primary and secondary school connected to the CARIPLO project "Connessi con l'Ambiente" (Coordinator: Cooperativa Sociale Risorse, Verbania – Italy).
01.03.2008-31.05.2008	Guest lecturer, teaching: "Waste management" at the course for technician specialized in "Environment, Safety and Energy". ENFAP, Torino.
01.04.2006-30.06.2006	Guest lecturer, teaching: "Waste management" at the course for technician specialized in "Environment, Safety and Energy". ENFAP, Torino.
01.01.2006-31.03.2006	Guest lecturer at the course for geomining and environmental technician. Professional training center of Verbania (VCO).
October 2005 – June 2006	Teaching activities at Caselletto (TO) secondary school.
01.03.2005-30.04.2005	Guest lecturer at the course for geomining and environmental technician. Professional training center of Verbania (VCO).
January-April 2005	Teaching activities at S.M.S. Ferrari di Avigliana (TO) secondary school–Buttiglieria Alta (TO).
01.03.2004-31.03.2004	Guest lecturer at the course for geomining and environmental technician. Professional training center of Verbania (VCO).
01.02.2004-30.04.2004	Guest lecturer, teaching: "Waste management" at the course for technician specialized in "Environment, Safety and Energy". ENFAP, Torino.
23.01.2003-23.01.2003	Guest lecturer for the course "Quarry exploitation". Lombardy Regional Institute for training activities for the Public Administration – IREF, Milano.

Alpignano (TO), 25.03.2025

PhD. Eng. Giovanna Antonella DINO