

Name: Claudio Oggeri

Year and nation of birth: 1962, France.

Nationality: Italian

e-mail: claudio.oggeri@polito.it

Phone (office): 0039 0110905679

Languages: Italian (mother tongue), English, French, Spanish (basic).

Background:

Mining Engineering (Geomechanics), graduated at Politecnico di Torino, Italy.

Post-graduate school in Energetics at Politecnico di Torino, Italy

Qualification as Professional Engineer in 1990 (Boards of Engineers of Torino)

Practitioner in construction sites, charged for monitoring (1988)

Self employed in a private farm (1986-1987)

Academic career

Since Oct 2014: Associate Professor at DIATI -Dipartimento di Ingegneria dell'Ambiente, del Territorio e delle Infrastrutture, Politecnico di Torino, Torino, Italy. In January 2020 the national scientific qualification as “Full Professor” has been obtained in Engineering and Safety of Excavations sector.

Jan 1999-Sept 2014: Researcher at DITAG - DIATI -Dipartimento di Ingegneria dell'Ambiente, del Territorio e delle Infrastrutture, Politecnico di Torino, Torino, Italy.

Jan 1991-Dec 1998: Laboratory technician in Rock and soil Mechanics at DIGET -Dipartimento di Georisorse e Territorio, Politecnico di Torino, Torino, Italy.

Oct 1990 – Dec 1990: Assistant researcher with scholarship at DIGET -Dipartimento di Georisorse e Territorio, Politecnico di Torino, Torino, Italy.

Research interests

The research activity is concerning technological and applicative features for mining project, both underground and open pit, civil excavations for tunneling, construction and for environmental issues or reclamation, stability and protection of rock slopes, reinforcing of ground formations and monitoring. Some challenging aspects have been developed for the characterisation of wastes and non conventional geotechnical materials; applications and experimental research have been carried out in the field of geosynthetic interfaces.

Some details:

- characterization of rock materials in lab and on site, even for mixed formations;
- clay characterization and correlation with workability for brick production;
- characterization of waste (industrial, mineral and municipal) and non conventional geomaterials (end of waste, slag, etc) at lab or full scale;



- deformability and stability of landfills and stockpiles;
- environmental reclamation of old landfill sites;
- geomechanical characterization of mining backfilling;
- characterization of supports for civil and mining tunnels;



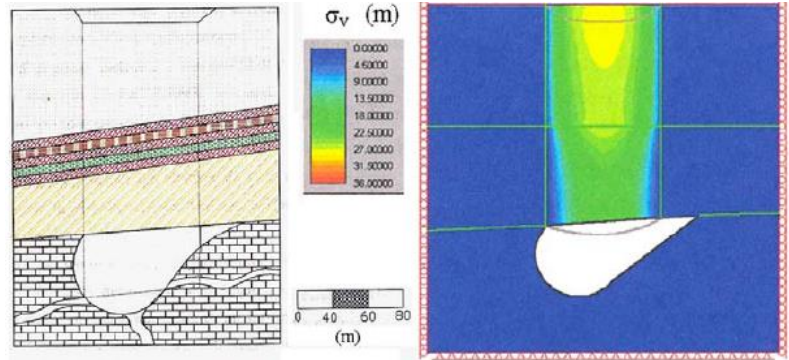
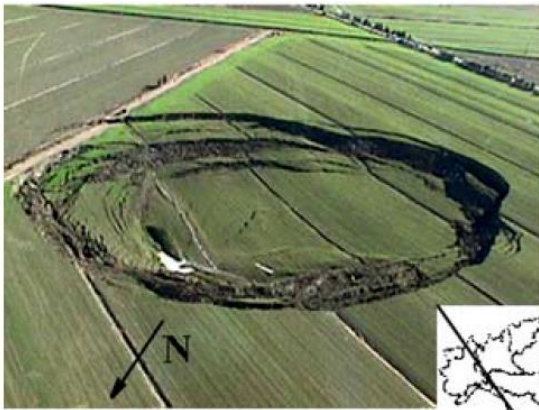
- behaviour of support systems in mining stopes in weak formations;
- study of damages and refurbishment of old tunnel linings;
- geomechanical monitoring of civil and mining excavations, sliding slopes, municipal, mining and industrial landfills, underground mining stopes;
- advanced geosynthetic applications in earth protection structures, in road paving and landfill capping;
- performances in mechanized tunneling: soil conditioning by means of use of additives in Shielded TBM and rock tool interaction in TBM;



- site testing for rockfall protection works and for anchoring devices (bolts and cables);



- natural and induced subsidence;



- muck characterization for the eventual reuse and for its safe management;

- technological aspect and stability for the dimension stone quarrying, in particular underground, and relation with the geostructural features aimed at the optimum mining recovery rate and for environmental compatibility. As investigator, both principal and in collaboration, more than 120 projects have been developed in about 30 years of activity.

Research funding has been based on direct contact with public and private boards or companies and the consequent development of research contracts. This activity allows to obtain funds for the laboratories, the formation upgrade, the purchase of software and books, the grants for scholarships. The income per project is variable, in the possible range of 10.000 to 40.000 €. Another more selective way of fund raising is depending on public assignments for the Ministry or Regional Boards or Networks. The more relevant cases in the recent years is the funding of Fondazione Cassa di Risparmio di Torino in 2008 for LANDSLIDE (45.000 €) for upgrade on instrumentation for monitoring, the Politecnico di Turin / Province of Asti for the landslide project SAFESLIP (67.000 €) and the Ministerial PRIN Project (2008 for 43.000 €). Relevant is the project at the Barry Gaurain site in Belgium for CCB Italcementi, funding of about 150.000€ for quarry site reclamation and overburden safe disposal, Provincia di Asti for contaminated soil reclamation (20.000€), Provincia of Asti for contaminated soil reclamation (104.000€), Provincia of Turin for rock slope stabilization (35.000€), and the international research with CEVALOR (Portugal) for the valorization of ornamental stones of the Alentejo region (20.000€) in 2001.

Teaching experience

Currently teacher of the courses:

- Infrastructural Sites, at Politecnico of Turin (in Italian)
- Applied Geomechanics, at Politecnico of Turin (in English)
- Tunnelling Controls, Doctorate School in Civil and Environmental Engineering at Politecnico of Turin

Past experiences in teaching have interested the courses of: Underground works, Soil and Rock reinforcing, Excavation sites and Quarrying, Geotechnical Monitoring, Complements of Geotechnics, Tunnelling, Quarrying and Reclamation, Environmental Geotechnics, Mining.

At the University of Turin, Faculty of Geology, teacher of two courses of “Applied Geology” in 2001 and 2002.

At the University of Piemonte Orientale (Novara), Faculty of Economics, teacher in the course of Land Engineering from 1999 to 2002.

At the Post Graduate School of Soil Protection and Environmental Reclamation, lecturer of 7 editions, from 1991 to 1997.

Thesis supervision

Tutor of about 170 students for MSc graduation in Environmental and Civil Engineering at Politecnico of Torino

Tutor of 2 students for MSc graduation in Geology at the University of Torino

Tutor of 2 PhD students at Politecnico of Torino

Tutor of 14 students of the International Master in Mechanized Tunnelling

Opponent for MSc thesis in 17 cases and for PhD thesis in 3 cases (urban tunneling, blasting vibration control, excavation machine performance control).

Professional activities and achievements

Former co-editor of the Journal “Gallerie e grandi opere in sotterraneo”

Former correspondent of the ITA AITES News magazine

Administrative Advisor of the GEAM cultural association in Turin for 6 years

Memberships in councils, boards, committees, networks, scientific associations, etc.

Currently Corresponding Member of the ISRM International Society for Rock Mechanics

Former member of GEAM Ass. Georesources and Environment (Turin, Italy)

Former Member of EGEP European Geogrids Expert Panel

Former Member of Working Group “Environment” of the ITA - AITES

Former Animateur of the Working Group “Quality” of the ITA - AITES International Tunnelling and Underground Space Association

Member of SOMP Society of Mining Professors

Reviewer for the journals:

- Rock Mechanics and Rock Engineering
- Tunnelling and Underground Space Technology
- Automation in Construction
- International Journal of Rock Mechanics and Mining Sciences
- Mechanics Research Communications
- Constructions and Building Materials.
- Journal of Rock Mechanics and Geotechnical Engineering
- Scientific African
- Engineering Structure
- Energies
- Mining Technology
- Environmental Earth Sciences
- Geotechnical and Geological Engineering
- Journal of Geotechnical and Geoenvironmental Engineering
- Sensors
- Processes
- Minerals
- Bulletin of Engineering Geology and the Environment

Invited talks and seminars, congress organization

- Member of the didactical and organizing committee of Post Graduate Master Course in "Tunnelling and Tunnel Boring Machines", and lecturer, organized by COREP, Politecnico di Torino, TUSC, endorsed by ITA AITES, under the patronage of SIG, for the editions: IV 2003/2004; V 2005/2006; VI 2007/2008; VII 2009/2010.
- Lecturer at the Post Graduate Master Course in Tunnelling and Tunnel Boring Machines organized by Politecnico of Turin in the editions 2012, 2014, 2016, 2018 and 2020.
- Lecturer at the Summerschool on Rational Tunnelling dell'University of Innsbruck, in September 2003.
- Lecturer at Training Courses held during the WTC World Tunnel Congress 2005 in Istanbul; Seoul 2006; Prague 2007.
- Chairmen at sessions of WTC world tunnel congresses of ITA AITES, in Istanbul 2005, Seoul 2006 and Prague 2007.
- Lecturer at the University of Petrosani in the years 2012 and 2014, concerning the topics "Tunnelling in urban areas" e "Muck management".
- Partnership with University Adolfo Ibanez in Santiago del Chile for training activities in the Mina Planta training and educational project: lecturer in October 2018 at UAI on "Excavation techniques in quarrying".
- Organization of 3 International Congresses (ACUUS Turin 2002, IMCET 2001 Ankara, MPES Turin 2006) and 5 national Congresses (GEAM Siusi 2001 on rock slope protection, Turin 2003 on reuse of mucking, Trento 2004 on rockslope reinforcing, Turin 2004 on mechanized tunneling challenges, Turin 2006 on snow and engineering)
- Organization of workshops for the ITA AITES WTC technical sessions of the working groups from 2001 to 2005. Among the others, the participation at the following congresses is cited:
World Tunnel Congress in Oslo 1999, Milan 2001, Sydney 2002, Amsterdam 2003, Singapore 2004, Istanbul 2005, Seoul

2006, Prague 2007, Agra 2008, Budapest 2009, Vancouver 2010, Helsinki 2011; Bergen, 2017;

- Geomechanics colloquium Salzburg 2006, the biannual congress of the MIR series (Rock Mechanics and Engineering) in Turin since 1986, the Biannual congress of the CGT series (conferences of geotechnics in Turin) since 1995, EUROCK 2001 in Espoo, the 2nd Int. Environmental Geotechnics in Edmonton in 1994, the 7th Int. Congress in Eng Geology in Lisbon in 1994, the 8th ISL in Cardiff in 2000, Int. Symposium on Mine Technology at CUMT Beijing in 1999 and SINOROCK 2004 in Yichang.

Publications

Author or co-author of about 165 publications in Congress Proceedings, Journals, book chapters and books.

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