

PERSONAL INFORMATION

Maurizio Gorla

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Sex: M | Date of birth: 10/12/1966 | Nationality: Italian

Hydrogeologist

- Groundwater resources evaluation (reservoir engineering)
- Water supply sustainable management (EHRA and RM)
- Remediation of contaminated sites project management
- Boreholes planning and works direction (mineral and drinking waters)
- Planning, supervision and analysis of water well field tests
- Water pollution analysis and water purification project (mineral and drinking waters)
- Groundwater modelling (analytical and numerical)
- Isotope Hydrology
- Groundwater training courses
- Groundwater legislation

PROFESSION
FIELDS OF SPECIALISATION

WORK EXPERIENCE

Since 2013

Consultant

Italian mineral water brand
Technical advisor

Since 2010

Executive Geologist

CAP Holding S.p.A.
Chief of the Water Balance and Geology Office
Public Company dealing with Integrated Water Management over the whole Milan and Monza Provinces

1996-2010

Senior Geologist

CAP Gestione S.p.A.
Public Company dealing with Integrated Water Management

1994-1996

Hydrogeologist

CAP Gestione S.p.A.
Assistant to chief geologist
Public Company dealing with Integrated Water Management

1991-1992

Junior Geologist

ISMES
Geological survey for the High-speed Railway Project

EDUCATION AND TRAINING

- 2010 Qualified Safety Coordinator, Politecnico of Milan (120 h course)
- 1995 Chartered Geologist and Fellow of the Geological Society
- 1991 MSc in Geological Sciences, University of Milan (mark 110/110)
- 1985 Diploma of "maturità scientifica" (BSc, mark 48/60)

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	A1	A1	A1	A1	A1
French	A1	A1	A1	A1	A1

Communication skills Good interpersonal communication skills (verbal and written communication, effective speaking)

Organisational / managerial skills Leadership, proneness to problem solving and innovation, good skill in working team coordination

Job-related skills Good command of quality control processes, proactive and outcome-oriented, gut factor

Computer skills Good command of IT tools

Other skills Tennis instructor

Driving licence Category B

ADDITIONAL INFORMATION

Public Appointments

- 2014-ongoing CEEP – Water Task Force’s General Rapporteur
- 2001-2008 Secretary-general in the Council of Lombardy Geological Society

Scientific Committees

- 2001-ongoing Member of Scientific Committee “Acque Sotterranee” and “L’Ambiente” journals

Publications More than 40 scientific publications. Among them, the most relevant ones:

2001

- 1) Acquiferi confinati profondi della Provincia di Milano: sviluppi delle conoscenze idrogeologiche e idrochimiche ai fini di un loro uso sostenibile – Caratteristiche idrogeologiche, caratteristiche idrochimiche e tipologie di inquinanti (Acque Sotterranee n. 72 e 73, August and October 2001)

2003

- 2) Proposta per un nuovo metodo di valutazione della efficienza del pozzo (Acque Sotterranee n. 86, December 2003)

2004

- 3) Proposta per l'applicazione di un metodo di calcolo speditivo della vulnerabilità di un pozzo d'acqua potabile a fenomeni d'inquinamento (Acque Sotterranee n. 87, February 2004)
- 4) Well Efficiency Assessment: Use of a New Computation Method (Proceedings of 32nd International Geological Congress, Florence, August 2004; Session 140 – Groundwater in porous media)

2005

- 5) Zona di rispetto: vera protezione o inutile vincolo? (Professione Geologo n. 20, March 2004 e Acque Sotterranee n. 94, April 2005)
- 6) Prospezioni radioisotopiche con Iodio-131 (Acque Sotterranee n. 96, August 2005)
- 7) SCAPS: A New Way to See the Subsurface (Proceedings of Geological National Congress, Spoleto, September 2005; Session 39 – Applied Geophysics)
- 8) Applicazione del T.I.M. e confronto con gli altri metodi di valutazione dell'efficienza dei pozzi per acqua (Acque Sotterranee n. 98, December 2005)

2006

- 9) Precipitazione, infiltrazione e percolazione (Acque Sotterranee n. 102, August 2006)
- 10) Le fluttuazioni piezometriche: cause ed effetti (Acque Sotterranee n. 103, October 2006)
- 11) SCAPS – in Atti delle giornate di studio del Museo Civico di Rovereto (December 2006)

2007

- 12) Carte isopiezometriche: interpretazione e parametri derivabili (Acque Sotterranee n. 105, February 2007)
- 13) L'età degli acquiferi profondi nella Provincia di Milano: sviluppo di una nuova curva di calibrazione trizio – i.e.b. (Proceedings of Geological National Congress, Rimini, September 2007; Session 73 – Earth Science and Groundwater Resources: from Base Science to Applications)
- 14) Well Efficiency Assessment: Use of a New Computation Method (European Geologist n. 24, December 2007)

2008

- 15) Nanotecnologie e bonifica dei siti contaminati: un connubio possibile (Professione Geologo n. 35, March 2008)
- 16) The Age of Deep Aquifers in Milan Province: Development of a New i.e.b. – Tritium Calibration Curve (European Geologist n. 25, June 2008)
- 17) The Age of Deep Aquifers in Milan Province: Development of a New i.e.b. – Tritium Calibration Curve (Proceedings of 33rd International Geological Congress, Oslo, August 2008; Session HYH-02 – Groundwater resources and management)
- 18) Modello di flusso della falda per lo studio di impatto ambientale di un campo pozzi nella Provincia di Milano, "Large scale groundwater model for the environmental impact study of a wellfield near Milan – Italy" (Giornale di Geologia Applicata, vol. 9, n. 2, 2008)
- 19) Monitoraggio dei sistemi acquiferi per la protezione "globale" (Servizi & Società, n. 4, August 2008)
- 20) Barriere Reattive Permeabili: stato dell'arte e prospettive future (L'Ambiente, n. 4, August 2008)

2009

- 21) Conseguenze della pianificazione delle risorse sotterranee sull'uso di fonti rinnovabili e sul tessuto urbano (Proceedings of 3rd Urban Hydraulics National Congress, "Water and City, Session F – Water and Landscape: addressing the integrated planning looking at EXPO 2015", Milan, October 2009)

2014

- 22) A new technique for filter packing water wells: research and development (Acque Sotterranee - Italian Journal of Groundwater, n. 1/135, March 2014)

2015

- 23) From groundwater baselines to numerical groundwater flow modelling for the Milan metropolitan area (Proceedings of European Geosciences Union, General Assembly, Vienna, April 2015)

ADDITIONAL INFORMATION

Scientifics books

A first scientific book (807 pages), titled “Idrogeologia Applicata – Principi, metodi e misure” (first edition 2004, second edition January 2009)

A second scientific book (576 pages), titled “Idrogeofisica - Geofisica applicata all’Idrogeologia”, Dario Flaccovio Publisher, Palermo (September 2009)

In Paliwal B.W. (ed.) - Global Groundwater Resources and Management, Chapter 17, titled “THE AGE OF DEEP AQUIFERS IN MILAN PROVINCE: DEVELOPMENT OF A NEW TRITIUM – I.E.B. CALIBRATION CURVE”. Selected Papers from The 33rd International Geological Congress, General Symposium: Hydrogeology, Oslo (Norway) Aug. 6-14, 2008. Scientific Publishers (India), Jodhpur, pp. 281-296

A third scientific book (662 pages), titled “Pozzi per acqua – Manuale tecnico di progettazione”, Dario Flaccovio Publisher, Palermo (September 2010)

A fourth scientific book (592 pages), titled “Siti contaminati – Analisi di rischio e tecniche di disinquinamento”, Dario Flaccovio Publisher, Palermo (June 2012)

Equations and methods developed by the author

The author has created the following methods, respectively relating to:

- Turbulence Index Method T.I.M., a new equation to calculate the water wells hydraulic efficiency (32nd International Geological Congress, 2004)
- Transfer Time Method T.T.M., a new equation to calculate the risk of pollution for water wells (2004)
- Development of a new Tritium – I.E.B. calibration curve, a new method to determine the age of groundwater (33rd International Geological Congress, 2008)
- Infrastructural Aqueduct Plan (I.A.P.), a new D.S.S. based on coupling of underground data (3D geological/hydrogeological model of heterogeneities, plus flow & transport model using a multi-physics approach) and plant and pipelines functionality, analyzed by a robust multilayer tool (M.L.A.). This kind of innovative IT approach can be considered a new managing tool to evaluate the sustainability of groundwater abstraction compared with the demographic and urban increase (2012 - ongoing).

Conferences As lecturer/teacher:

a) **Geological World Congress**

- 2004 – 32nd International Geological Congress (Florence, August 2004)
- 2008 – 33rd International Geological Congress (Oslo, August 2008)
- 2015 – 42nd IAH Congress (Rome, September 2015)

b) **Geological National Congress**

- 2005 – Geological National Congress, Geitalia 2005 (Spoleto, September 2005)
- 2007 – Geological National Congress, Geitalia 2007 (Rimini, September 2007)
- 2009 – Convegno Nazionale di Idraulica Urbana (Milan, October 2009)

c) **Other Workshops, Courses and Congresses**

- from 1998 to 2003 – FEDERGASACQUA, Workshop on “Progettazione e gestione dei pozzi d’acqua potabile” (Milan)
- 2001 – ANIPA International Conference, “Ricerca e captazione di acque sotterranee nel mezzo poroso e nel mezzo fratturato” (Florence, march 2001)
- 2005/2006/2007 – ESI Italia, Pumping tests training course (Milan)
- 2005 – Workshop on “Tecniche di recupero dei pozzi d’acqua”, University of Padua (Padua, December 2005)
- 2005 – Workshop on “Tecniche geofisiche in campo ambientale” (Rovereto, December 2005)
- 2006 – Seminar of General Hydrogeology on “Progettazione e collaudo dei pozzi per acqua”, University of Milan Bicocca (Milan, October 2006)
- 2007 – European meeting on “L’acqua patrimonio dell’umanità” (Padua, April 2007)
- 2007 – Workshop on polluted sites – RemTech 2007 (Ferrara, September 2007)
- 2007 – Workshop on “Territorio fragile: il contributo della geofisica allo studio delle problematiche ambientali legate alla risorsa idrogeologica” (Rovereto, December 2007)
- 2008 – Workshop on “Acque ad uso umano – Accadueo 2008” (Ferrara, May 2008)
- 2008 – Workshop on “Bonifica dei siti contaminati: dalla pianificazione all’azione – RemTech 2008” (Ferrara, September 2008)
- 2009 – ESI Italia, training course on “Modellazione 1D e 2D per le Opere di Estrazione di Acque Sotterranee” (Milan, March 2009)
- 2009 – Ordine dei Geologi della Lombardia, training course on “Bonifica dei siti contaminati – Meccanismi di propagazione delle sostanze inquinanti nello spazio sotterraneo” (Milan, November 2009)
- 2009 – Politecnico di Milano, training course on “Studi idrogeologici per la gestione delle risorse idriche alla luce degli strumenti normativi – Progettazione di pozzi per acqua in acquiferi alluvionali” (Milan, November 2009)
- 2010 – Ordine dei Geologi della Lombardia, training course on “Il Sistema delle Risorse Idriche in Lombardia: conoscenza, pianificazione e gestione – Caratterizzazione idrogeologica, idrochimica e isotopica degli acquiferi profondi nella Provincia di Milano” (Milan, May 2010)
- 2010 – Ordine dei Geologi della Lombardia, training course on “Bonifica dei siti contaminati – Natura e caratteristiche degli idrocarburi, meccanismi di diffusione e trasporto” (Milan, December 2010)
- 2011 – European Groundwater association, 1° meeting EGA, conference on “Well drilling technologies: advanced applications, draft voluntary standards for the promotion of quality” – “Water wells efficiency, interpretation methods and evaluation criteria on the good construction of works” (Piacenza, December 2011)
- 2012 – Ordine dei Geologi della Lombardia, National conference on “Acque sotterranee: obiettivi di qualità e nuovi criteri per una gestione sostenibile della risorsa” – “Nuove prospettive per un prelievo sostenibile delle risorse idriche sotterranee: il futuro secondo CAP Holding” (Milan, March 2012)
- 2012 – ESI International, international conference on “Catchment management: the benefits and the implications” – “An Italian perspective on catchment management” (London - Reading, June 2012)
- 2013 – European Groundwater association, 2° meeting EGA, conference on “Well drilling project: new UNI normative” – “Water well planning: from analytical to multi-physical approach” (Piacenza, December 2013)
- 2014 – Mario Negri Institute, conference on “Water quality and emerging contaminants” – “Hydrogeologic, hydrochemical and isotopic characterization of Milan Province aquifers” (Milan, June 2014)
- 2014 – XI Workshop on “La geofisica applicata all’idrogeologia” (Rovereto, December 2014)

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