

*Dr Antonio Lopez*



*abridged CV updated up to December 2014*

Dr Lopez is the **Director** of the Water Research Institute (IRSA) of the Italian National Research Council (CNR). He joined IRSA-CNR on 1982.

In Italy, CNR ([www.cnr.it](http://www.cnr.it)) is the official governmental agency in charge of promoting, coordinating and managing public research in the interest of the scientific and technological progress of the Country. CNR carries out research activities through its own network of 108 Institutes located all over the Country with a permanent staff of about 8,000 units.

Since 1968 the IRSA-CNR ([www.irsa.cnr.it](http://www.irsa.cnr.it)) plays the role of the national reference research Institute for whatever issue concerning water and wastewater treatment, water quality, water resources management, wastes treatment and management. The Institute is structured in three Departments strategically located in: Rome (Central Italy), Bari (Southern Italy) and Milan (Northern Italy).

In the period 1976-1982, Dr Lopez has been **Professor** of **Chemistry** at the Faculty of Engineering of the University of Naples (Naples-Italy).

Dr Lopez **professional activities** have been and are mainly focused on **water and wastewater treatment**. In this area, he regularly carries out advisor activities for public as well as private Institutions, Agencies, Firms and R&D organizations.

His **research activities** have always been carried out in the field of water and wastewater treatment on both fundamental as well as applied issues such as:

- Physicochemical treatments of municipal wastewater for avoiding eutrophication phenomena;
- Physicochemical characterization of interactions between organic pollutants and natural solid phases (soils, sub-soils, aquifers, sediments);
- Formation, identification and minimization of by-products during water and wastewater disinfection;

- Biodegradability enhancement of industrial wastewater by means of chemical oxidation processes;
- Sustainable treatments for agricultural reuse of municipal wastewater;
- Advanced oxidation processes for degrading persistent organic pollutants;
- Integrated processes for treating industrial wastewater with low sludge production.

On behalf of IRSA-CNR, Dr Lopez has participated in many **International Research Projects** as Partner, Work-Package Leader or Coordinator.

**Projects, European (EC) and National (N), recently coordinated by Dr Lopez:**

- EC-FP6) - **PERBIOF** (A new technology for treating municipal and/or industrial wastewater with low environmental impact) 2006. <http://www.perbiof-europe.com> (cost: about 1 million EURO)
- EC-FP6) - **INNOWATECH** (Innovative and integrated technologies for the treatment of industrial wastewater) 2006-2010. <http://www.innowatech.org> (cost: about 5 million EURO)
- EC-FP7-Med) - **MEDIWAT** (Sustainable management of environmental issues related to water stress in Mediterranean islands) 2010-2013. <http://www.mediwat.eu/> (cost: about 1.5 million EURO)
- N) - **INTERRA** (Innovazioni Tecnologiche e di processo per il Riutilizzo irriguo delle acque Reflue urbane e Agro-industriali ai fini della gestione sostenibile delle risorse idriche) 2011-2014. <http://www.pon-interra.it> (cost: about 6.5 million EURO)
- EC-FP7) - **WATER4CROPS** (Integrating biotreated wastewater reuse and valorisation with enhanced water use efficiency to support the Green Economy in EU and India) 2012-2016. <http://www.water4crops.org/> (cost: about 8 million EURO)

In the period 1986-1987, on behalf of CNR, Dr Lopez has been **Supervisor** of an **US-EPA-CNR R&D project** (RIM-NUT PROCESS DEMONSTRATION, grant No R-005858-01) carried out at South Lyon-Michigan-USA.

Dr Lopez has been appointed by the following Institutions, Agencies and Authorities to act as **Independent R&D Project Evaluator**:

- European Community (during the 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> Framework Programmes)
- Engineering and Physical Sciences Research Council (United Kingdom)
- Office fédéral de l'éducation et de la science (Switzerland)
- The Department of Education, Science and Training of the Australian Government (Australia)
- Technology Foundation STW (The Netherlands)
- The Italian Ministry of Productive Activities (Italy)
- The Italian Regions: Apulia, Lazio, Liguria, Marche, Umbria, Piemonte

On behalf of CNR, as **National Expert** of innovative water treatment technologies, Dr Lopez has represented Italy during bilateral meetings organized by the Italian Trade Commission (ICE) in **China, India** and **Israel**.

Since 2004, Dr Lopez is the only official **Italian representative**, appointed by the Italian Ministry of University and Research, inside the Member States Mirror Group (**MSMG**) of the **European Platform “Water Supply and Sanitation Technology” (WSSTP)**.

**Invited Lecturer** during international conferences, advanced courses, as well as specialized Summer Schools, Dr Lopez has given presentations and courses at several Italian and foreign Universities, Institutions and Research Centers.

Dr Lopez is **Referee** of many International scientific journals.

He is **Author** and/or **Co-author** of over 300 scientific and/or technical articles and book-chapters that have appeared in Italian (8%) and International (92%) journals\* and/or books#.

#) The last book just issued is:

**Lopez A., Di Iaconi C., Mascolo G., Pollice A.** (2012) “Innovative and integrated technologies for the treatment of industrial wastewater”, IWA Publishing Ed. (London-UK).

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