

## DR. ALESSANDRO DI DOMENICO — SYNOPSIS OF CURRICULUM VITAE

**Name and surname** Alessandro DI DOMENICO.

**Place and date of birth** Rome, Italy; February 15, 1943.

**Languages** Mother tongue, Italian. Spoken and written English, fluent. Spoken and written French, fair.

**University studies** Doctorate in Chemistry *magna cum laude* granted on July 21, 1966, by the University of Rome “La Sapienza”. Ph.D. studies carried out in two years with Prof. G. Alberti at the Department of General and Inorganic Chemistry, University of Rome. Dissertation entitled “Spectrofluorometric Determination of Ce<sup>3+</sup> in Aqueous Solution”, supervisor Prof. G. Sartori. Good background in inorganic analytical chemistry (fluorescence and absorption spectroscopy) and physical chemistry.

**Postdoctoral appointments** (A-1) Fellowship granted by CNR (Italian National Research Council) during the academic year 1966–1967. A 10-month work performed at the Department of General and Inorganic Chemistry, University of Rome, with Prof. A. Mele on X-ray induced thermoluminescence of fluorinated polymers. (A-2) Starting October 1969, a 26-month study with Prof. J.L. Franklin at the Department of Chemistry, Rice University, Houston (Texas). Time-of-flight mass spectrometry was used to carry out studies on negative ions of simple molecules and negative ion-molecule reactions. Low- and high-pressure sources were used. Basic knowledge of electronics and good background in thermodynamics and gas phase reaction rate theory were required. (A-3) Starting November 1974, a 16-month study with Prof. J.L. Franklin at the Department of Chemistry, Rice University, Houston (Texas). The major field of study was photoelectron spectroscopy with emphasis on ionization cross-section determinations. (A-4) From July 1988 to November 1992, a NATO/CCMS grant for participation in the Pilot Study “Remedial Action Technologies for Contaminated Land and Groundwater” focusing on the photodegradation of chemicals in condensed media.

**Employments** (B-1) Currently employed at the Istituto Superiore di Sanità (ISS, Italian National Institute for Health), in Rome, as Research Leader (since February 1984) of the Laboratory of Comparative Toxicology and Ecotoxicology. (B-2) From March 1988 until present, Head of the Ecotoxicology Unit of the aforesaid Laboratory. Main fields of interest: environmental chemistry, ecotoxicology, toxicological risk assessment and management.

**Research interests** Environmental chemistry and toxicology, ecotoxicology, study of chemical fate in the environment, development of predictive/interpretive models thereof. Expertise accrued in microanalytical detection methods. Due to institutional needs, chemical emergencies (e.g., the Seveso case) have also been dealt with. Knowledge and experience have been acquired in the assessment of exposure to chemicals, assessment and management of risks associated with such exposure, and environmental impact assessment.

**Overview of selected activities** WHO-related: (C-1) in the early 1980s, for a few years, collaboration with the WHO/IPCS within the Programme “European Cooperation on

Environmental Health Aspects of the Control of Chemicals”, with specific reference to the management of chemical emergencies; (C-2) since 1986, Italian National Coordinator of (formerly) WHO programme for the determination of PCDDs, PCDFs, and PCBs in human milk and blood, and for the definition of the analytical procedures thereof. NATO-related: (D-1) Director of the Working Group “Management of Accidents” within the framework of NATO/CCMS Pilot Study “Dioxin Problems” (1986–1988); (D-2) NATO/CCMS Fellow within the framework of Pilot Study “Demonstration of Remedial Action Technologies for Contaminated Land and Groundwater” (1986–1991). OECD-related: (E-1) since 1994, Italian National Representative at the OECD Joint Meeting of the Chemicals Group and Management Committee (now Joint Meeting of the Chemicals Committee and the Working Party on Chemicals, Pesticides, and Biotechnology), generally with the function of Delegation head (also member of its Bureau for two years); (E-2) since 1997 until 1999 (end of Group), Italian National Representative at the Advisory Group on Risk Management (also member of its Bureau); (E-3) since 1994, Italian National Coordinator of OECD Test Guidelines Programme; (E-4) since 1994 until 1998 (end of Group), Italian National Representative at the Risk Assessment Advisory Body; since 1999, member of the Risk Assessment Network. EU/EC-related: (F-1) Italian National Expert for EC preliminary activities within the framework of endocrine disrupting chemicals (EDCs) (1998–1999); (F-2) expert member of the Scientific Committee of Food “Task Force on Dioxins” (1999–2000); (F-3) member of the Scientific Committee on Cosmetic Products and Non-Food Products (2000–ongoing) (also member of its Working Parties “Detergents/Housold and Similar Products”, “Exposure and Risk Assessment”, and “Inventory”).

**Honors** (G-1) Travel expensens for the 1974 Postdoctoral Appointment A-3 supported by a Fulbright-Hays award. (G-2) Member of the Sigma Xi Scientific Society, Rice University Chapter, Houston (Texas). (G-3) *Cavaliere dell’Ordine “Al Merito della Repubblica Italiana”* [Knight of the Italian Republic] (1988), honor given in recognition of the work carried out over the years in the professional/institutional field. (G-4) *Ufficiale dell’Ordine “Al Merito della Repubblica Italiana”* [Officer of the Italian Republic] (1999), further honor given in recognition of the institutional work carried out.

**Publications** Over 120 scientific articles and over 90 technical and scientific reports.

**Financial resources** A large part of the scientific research and technical performance has been allowed by a continuous ISS internal funding. However, an important part of the achievements has also been associated with external resources: the undersigned has managed research contracts for over two million US\$ worth over the years.

*Alessandro di Domenico*