

Curriculum Vitae

Aniello AMENDOLA

1962. Doctor Degree in Engineering by the Federico II University in Naples with a Thesis on Emergency Shutdown of Nuclear Power Reactors

1963-67 At the Olivetti Electronic Research Laboratory in Pregnana Milanese (Italy) working at the design of advanced magnetic core memory systems.

1967-2000 Scientific Official of the European Commission involved in a number of R&D cooperation programs within the EU.

1967-72 at KFK Karlsruhe, Germany, for the German Fast Reactor Project. Development of a probabilistic methodology for assessing the reliability of core thermal design with respects to various types of uncertainties (hot channel – hot spot factors).

1972-78 at ENEA, Bologna, Italy, for the Italian Fast Breeder Project,. Firstly involved and then responsible for the unit concerned with the core structural & thermal design for the experimental Sodium Cooled Reactor PEC, and for the coordination of the Italian research activity into FBR core design within the Italian/French collaboration the Super Phoenix Reactor.

1978-99 at the EU Joint Research Center, Ispra, Italy managing projects concerning safety and reliability of Nuclear Power Plants, and since 1984 of Chemical Installations.

Development of methodologies for dynamic accident analysis and man-machine interaction, which opened the new research branch known as ‘dynamic reliability’.

Promoter and co-ordinator of international projects for comparative (benchmark) exercises on risk assessment of NPPs and major hazards establishments, involving a number of research laboratories in EU and in USA.

Since ‘89 Head of the 'Major Technological Risk' Sector, responsible for the work in support of the implementation of the EEC Directives on safety of chemical installations (now **Major Accident Hazards Bureau**), Biotechnology and Environment, and Environmental Impact Assessment, in addition to related R&D activities.

In the meantime Member of the Major Risk Commission to the Italian Council of Ministries, of the Scientific Committee of the Italian Project: ARIPAR for the assessment of the accident risk of the industrial area of Ravenna (fixed and

transportation sources), and of the Scientific Board "Industrial Risk" of the INERIS (French National Institute for Industrial & Environmental Hazards).

Teaching courses on risk and reliability at the University of Pisa and Polytechnic of Turin, Italy, at CIEMAT, Spain, at the Aristotelian University of Salonika, Greece, and the Technical University of Budapest, Hungary.

1997 – 2000 Joining the IIASA – Risk and Society programme promoting cooperation with JRC and other European Research Centres, and with the Disaster Prevention Research Centre of the Kyoto University, Japan. Development of methodologies for catastrophe risk modelling to be used in disaster risk sharing programs and investigation into risk governance issues.

From 2001 Associated with the IIASA Risk and Vulnerability Programme, contributing to the establishment of the IIASA – DPRI Integrated Disaster Risk Management (IDRiM) Forum and valorisation of its research results

2001 - Visiting Professor at the DPRI – Kyoto University, lecturing on IDRiM

2001-2005 Contract Professor at the Alma Mater University in Bologna, Italy, lecturing on risk assessment and risk governance.