

PERSONAL INFORMATION

Alessandro DEL NEVO



 [alessandro-del-nevo-229a6a2/](https://www.linkedin.com/in/alessandro-del-nevo-229a6a2/)



Nationality ITALIAN

Technical expertise

- Thermal-hydraulics of nuclear systems (fission and fusion)
- Design of systems and components for nuclear applications (fission and fusion)
- Design, construction, commissioning and operation of experimental facilities
- Design, fabrication and testing of mock-ups and components, including planning and execution of experimental campaigns
- TH-System and fuel performance codes: development, V&V, qualification and application
- Safety analysis, including Best Estimate Plus Uncertainty (BEPU) and licensing support

WORK EXPERIENCE

Dates

Since Dec. 2010 - ENEA – Research Centre Brasimone, 40032 Camugnano (BO), ITALY

Occupation or position held

- ✓ [since Apr. 2024] Head of Experimental Engineering Division (NUC-ING)
 - Responsible for a Division of ~50 staff (researchers, technicians, administrative), including 3 laboratories, experimental halls, facilities and safety management
- ✓ [July 2015 – Mar. 2024] Head of Laboratory
- ✓ [Dec. 2010 – June 2015] Researcher

Main activities and responsibilities

Management and Project leadership (selected)

- [since 2021] Responsible of W-HYDRA platform project (design, procurement and construction)
 - W-HYDRA is an integral water–PbLi facility supporting ITER TBM and DEMO BB R&D, including transient and accident scenario studies (PbLi–water interaction)
- [2021-2025] Scientific Responsible, WP-Breeding Blanket, FP9 EUROfusion
- [2021-2023] Deputy Project Leader, WP-Breeding Blanket, FP9 EUROfusion
- [2014-2020] Lead Engineer, WCLL Breeding Blanket, H2020 EUROFUSION
- [2014-2020] Scientific Responsible, WP-Balance of Plant, H2020 EUROfusion

Institutional / governance roles in EU projects (selected)

- [since 2024] Member of the Project Board, FP9 EUROfusion Project
- [since 2024] Member of the General Assembly, CONNECT-NM Project

Participation in international projects / benchmarks (selected)

- [since 2023] OECD NEA ISP-52 - TH-SYS benchmark on Multiple Steam Generator Tube Rupture (MSGTR) - Coordinator of the numerical benchmark and participant
- [2012–2016] IAEA CRP EBR-II

(Participant in multiple OECD/IAEA benchmarks/projects on thermal-hydraulics, fuel behaviour and safety analysis, since 2004)

Dates

Jan. 2003 – Dec. 2010 - University of Pisa. Lungarno Antonio Pacinotti, 43, 56126 Pisa, Italy

Occupation or position held

- ✓ [Jan. 2007 – Dec. 2010] Professional engineer / Assistant Researcher
- ✓ [Jan. 2004 – Dec. 2006] Ph.D. Student
- ✓ [Jan. 2003 – Dec. 2003] Professional engineer

Main activities and responsibilities
(selected)

- [2008 - 2010] Safety analyst contributing to Chapter 15 and Chapter 4 of Final Safety Analysis Report of Atucha-2 NPP.
- [2007 –2010] TRANSURANUS research agreements
- [2005 –2008] EDF projects (i.e. Inherent Boron Dilution Issue in PWR and CATHARE2 validation).

EDUCATION AND TRAINING

- 2007 **Ph.D. in Nuclear Safety** - University of Pisa, Italy
Thesis: Best Estimate Codes Uncertainty Evaluation in Nuclear Technology
- 2003 **Professional Engineer Qualification**
Registered in the Order of Engineers of La Spezia (since 2006)
- 2002 **MS in Nuclear Engineering** - University of Pisa, Italy
Thesis: Thermal-hydraulic behaviour of IRIS reactor using RELAP5.

ADDITIONAL INFORMATION

Publications

Author/Co.-author of:

- 2 editorials
- > 165 publications in international journals
- > 115 peer-reviewed conference papers
- 9 Contributions in published Content book, International Technical Report (e.g. IAEA, NEA)

Teaching and supervision

- **Supervisor** of PhD and MSc theses in nuclear engineering/safety.
- **Tutor** of 3 EUROfusion Engineering and Research Grants
- **Lecturer** and **course leader** in ENSTTI advanced courses (Thermal-hydraulics and Criticality Safety).
- **Lecturer** in industrial and international nuclear safety courses (Technip, VATESI, NPIC, etc.).

Additional information (selected)

- [since 2019] National Academic Qualification as **Associate Professor** (09/C2) Thermal Physics and Nuclear Engineering
- **Guest Editor** of 3 special issues in international journals (STNI, Energies)
- **Chair/Organizer** at multiple international conferences (NURETH, ISFNT, HLM)