Preservation of Nuclear Engineering education in Italy

“The uncommon story of Nuclear Education in a Non-Nuclear Country”

Prof. Marco E. Ricotti
CIR TEN President
Italian Nuclear Universities
CIRTEN Consortium since 1994
Nuclear Education in Italy since ’50s

Higher Education offer:

- MSc in Nuclear Engineering or
- MSc in Energy Eng. (with Nuclear Eng. courses)
- PhD in Nuclear Science & Technology or
- PhD in Energy (with Nuclear Eng. R&D)
CIR TEN groups & R&D areas

- **Nuclear Energy** Power and **Fuel Cycle Plants**
- Nuclear reactor **thermal-hydraulics**
- **Neutron transport** in reactors
- Nuclear and Industrial Plants **Design, Operation and Safety**
- Environmental **Safety, Impact and Protection**
- **Radiation protection**, Shielding and Effects of Ionizing Radiations on Materials
- ** Decommissioning** of Nuclear Installations & Waste Management
- **Industrial / Medical** Applications of Radiation
- **Fusion** reactor physics and engineering
65 permanent staff professors
>70 young researchers
(PhD, research assistants)

>140 new students/year
(MSc + PhD programmes)
Reasons for success?

- Good reputation on nuclear education
- Good career in nuclear as well as in non-nuclear areas
- International experience (e.g. ENEN)
- Physics & Maths + Multidisciplinarity