The role of ETSON in Attracting, Training and Retaining the Next Generation of Nuclear Professionals

Uwe Stoll, ETSON President
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NEA-IAEA-WANO Workshop on Human Capital
TSOs (Technical Safety Organisation) are science-based organisations which support their national regulators by …

- performing technical safety assessments, and
- performing nuclear safety research

Objectives of the European TSO Network (ETSON) founded in 2006

- Developing common approaches for nuclear safety assessments
- Sharing technical and scientific knowledge and experiences among the TSOs
- Representation of TSO’s interests toward IAEA, EC, OECD, ENSREG etc.
ETSON members

Germany - GRS
Founding member since 2006

Finland - VTT
Member since 2006

Lithuania - LEI
Member since 2009

Ukraine - STTC NRS
Associated member since 2010

Russia - SEC NRS
Associated member since 2012

Japan - NRA
Secretariat
Associated member since 2014

Belgium - Bel V
Founding member since 2006

United Kingdom - Wood
RSD Member since 2015

France - IRSN
Founding member since 2006

Czech Republic - RC Rez
Member since 2008

Italy - ENEA
Member since 2016

Slovenia - JSI
Member since 2013

Slovakia - VUJE
Member since 2010

Romania - RATEN ICN
Member since 2017

Hungary - MTA EK
Member since 2015
The ETSON Junior Staff Programme (JSP)

The ETSON Junior Staff Programme brings together young experts from all ETSON members to:

• share knowledge, experience and practices,
• build a network between young experts from different countries,
• develop their ability to work in an international context
• encourage intercultural interaction,
• Improve long-term partnership between member TSOs.

The JSP Workshop is **not a succession of presentations**.

Before the workshop, participants choose a specific topic related to their jobs, on which they prepare a **joint work (in groups of 4 participants)**.

**During the workshop, they present** (conventional presentations or practical case studies) the results of their work.

This provides them the opportunity to discuss their specific topics, share and expand their knowledge, make comparative studies between European countries.
Activities and achievements

The ETSON JSP Summer Workshop: an overview

2018 Radioactive waste management, environmental protection and decommissioning (RATEN ICN)
2017 Uncertainty and sensitivity in nuclear analysis (JSI)
2016 Structural Integrity aspects in nuclear safety (AMEC FW, now Wood)
2015 Material properties aspects in nuclear safety (PSI)
2014 Fuel Management (VTT)
2013 Accident Management (LEI)
2012 Waste Management (Bel V)
2011 Fukushima and accident consequences (UJV)
2010 Future Challenges (GRS)
2009 Methodologies and technical aspects in nuclear safety (IRSN)
2008 Nuclear Reactor Safety Assessment (GRS)

More than 300 participants in the last decade
- Science Slam of the nominated papers (presentation of each candidate),
- Selection of the winners by the ETSON Award Committee (50%) and the voting of the audience (50%)
- Awards ceremony to the two winners
Langula: Born and grow up in a small village

Erlangen: Nuclear Engineer at SIEMENS/AREVA

Angra dos Reis: Super Visor Commissioning

Moscow: Study Nuclear Engineering

Zittau: Development Course of Studies “Nuclear Engineering”

München: DG GRS
Conclusion

What is necessary to attract and retain the next generation of Nuclear Professionals?

1. High Appreciation by the Society
2. Common Goal of all Stakeholders
3. Honesty by all Stakeholders