

# Third International Conference on Nuclear Knowledge Management - Challenges and Approaches



Contribution ID: 54

Type: poster

## Dissemination of Knowledge about NPP Instrumentation and Control Systems

*Monday, 7 November 2016 17:00 (1 hour)*

Instrumentation and control (I&C) systems are the most variable part in the nuclear power plants (NPP) comparatively with any other NPP systems. This statement is connected with the wide use of computers, rapid changes in information technologies, with the appearance of new computer complex electronic components, e.g. Field Programmable Gate Arrays (FPGA) and with appropriate point of their insertion into NPP I&C life cycle. The changes in NPP I&C systems require the dissemination of the knowledge about these systems. Lessons after Fukushima accident increase necessity of these actions. The elaboration and following dissemination of this knowledge took place in different directions:

- Writing and issue of 3 new books about NPP I&C systems for specialists and for students which were issued in Ukrainian and USA public houses (the last book was issued in 2014);
- Organization of 5 international scientific technical conferences, devoted to NPP I&C safety problems;
- Elaboration of national (Ukrainian) standards and regulations pertaining to safety important NPP I&C systems (the last standard was issued in 2015) and participation in elaboration of international standards;
- Lecturing for university students, NPP specialists and I&C designers.

These actions in all directions are added to IAEA activity in the area NPP I&C systems (e.g. The IAEA NP-T-3.12 "Core Knowledge on I&C systems in NPP").

### Country or International Organization

Ukraine

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**Session Classification:** Poster Session

**Track Classification:** Track 8: Issues and approaches for information, records and data management