

Report of
ITU CIS Centres of Excellence (CoE) Workshop on
New and Advanced Technologies of Digital Television
and Related Video Applications
Odessa, Ukraine, 18-21 August 2015

The CIS Centre of Excellence Workshop on New and Advanced Technologies of Digital Television and Related Video Applications, organized in cooperation and on the basis of the Alexander Popov Odessa National Academy of Telecommunications (ONAT) under Ministry of Education and Science of Ukraine was held in Odessa, Ukraine, from 18 to 21 August 2015.

The workshop was aimed at equipping the participants with an understanding of current and future systems and standards of digital television, in particular with the systems of digital production and broadcast, audio and video information compression, image and sound accompaniment quality control, wireless broadband technologies and services to contribute to the implementation and development of digital television and operate digital television and related video applications.

Within the framework of the workshop the participants got acquainted with:

- general characteristics and directions of further development of digital television systems and television, audio and multimedia broadcasting at various levels, as well as other video information;
- standard definition television (SDTV) systems;
- digital high-definition television (HDTV) systems with the picture aspect ratio 720×1280 and 1080;
- ultra high definition television (UHDTV) systems;
- stereoscopic (3DTV) and multi-angle (FVT) television;
- digital multiprogram streams for distribution through the path of software production and broadcast channel;
- multimedia and interactive video applications;
- video information and digital cinema systems.



Workshop participants

At the opening, the participants were greeted by Mr. Pyotr Vorobiyenko, Rector, ONAT, Mr. Vadim Kaptur, Vice Rector for Scientific Work, ONAT; and Mr. Andrei Untila, Programme Officer, ITU Area Office for CIS, who participated in the opening ceremony via videoconference system.



Opening of the Workshop

Lessons and trainings of the workshop were delivered by Mr. Oleg Gafaizen, Doctor of science, Professor, Vice Chairman, SG 6, ITU-R; Head, Television and Radiobroadcasting Department, ONAT; and Mr. Vladimir Balyar, Candidate of Science (Engineering), Assistant Professor, Television and Radiobroadcasting Department, ONAT.

Within the framework of the workshop, participants studied theoretic aspects of digital television and related video applications and completed a practical training with models of systems and their components. The workshop was conducted in English.



Process of workshop



Process of the Workshop

The trainers daily checked the level of the knowledge gained by participants. Final testing was conducted on last day of the workshop.