



PRESENTATION OF REGIONAL TC PROJECT RER/8/015

Nevenka Novosel

**Seminar “Irradiation Methods in Cultural Heritage
Protection”**

Zagreb, 4-5 October 2011



SCOPE



- General about SORNS
- Tehnical Cooperation with the IAEA
- Regional project RER/8/015



STATE OFFICE FOR RADIOLOGICAL AND NUCLEAR SAFETY



- State Office for Radiological and Nuclear Safety – state administration body competent for activities relating to protection against ionising radiation and nuclear safety
- Act on Radiological and Nuclear Safety (Official Gazette 28/10):
 - “SORNS coordinates technical cooperation with the International Atomic Energy Agency for all participants from the Republic of Croatia”.



TEHNICAL COOPERATION WITH IAEA



- IAEA: 151 Member States, Croatia Member State since 1993
- Fields of activities: safety and security, science and technology and safeguards and verification
- Technical Cooperation Programme:
 - National, regional and interregional projects
 - Coordinated research projects
 - Biannual programming cycle
 - Country Programme Framework (CPF) – 4-6 years
 - National Liaison Officer (NLO)



TEHNICAL COOPERATION PROGRAMME



- Technical cooperation projects
 - Fellowships and scientific visits
 - Expert missions
 - Purchase of equipment
- Regional projects
 - National coordinator
 - Co-organization of training courses, workshops and meetings in Croatia
- IAEA team
 - Programme Management Officer (PMO)
 - Technical Officer (TO)



REGIONAL PROJECT RER/8/015



- Title “Using Nuclear Techniques for the Characterization and Preservation of Cultural Heritage Artefacts in the Europe Region”
 - Extension of the project RER/1/006 “Nuclear Techniques for the Protection of Cultural Heritage Artefacts in the Mediterranean Region”
- IAEA team
 - Alessia Rodriguez y Baena - PMO
 - Andrzej Markowicz – TO (Analytical Techniques)
 - Maria Helena O. Sampa – TO (Radiation Processing Technology)
- Croatian national coordinators
 - Branka Katušin- Ražem (IRB)
 - Mario Braun (HRZ)



PROJECT RER/8/015 OBJECTIVE



Objective: To improve the characterization and preservation of cultural heritage artefacts through the application of nuclear techniques with special emphasis on gamma irradiation treatment, making use of techniques including insect eradication and disinfection in various cultural heritage materials and consolidation of degraded materials with radiation-curing resins



EXPECTED OUTCOMES AND INDICATORS



1. Outcome: Increased awareness and acceptance of nuclear techniques for characterization and preservation of cultural heritage artefacts
Indicators: Increased number of cultural heritage artefacts objects treated or characterized by nuclear techniques (country reports)
2. Outcome: Optimized methodologies and techniques for characterization and preservation of cultural heritage artefacts
Indicators: Extended number of applied nuclear techniques for cultural heritage (papers, booklets, media infos, audio-video materials)
3. Outcome: Strengthened national and regional network among conservators and nuclear institutes
Indicators: Enhanced cooperation on both national and international levels (agenda content and participants at workshops dedicated to cultural heritage)



EXPECTED OUTPUTS AND INDICATORS 1



1.1. Output: The inventory of data for characterization and preservation of cultural heritage objects established

Indicators: National data on application potential of nuclear techniques for cultural heritage

1.2. Output: Information materials on nuclear techniques capabilities for characterization and preservation of cultural heritage artefacts developed

Indicators: Inventory of scientific and technical data on national capabilities

1.3. Output: Awareness at national level increased

Indicators: Increased number of national projects

1.4. Output: Regional awareness increased

Indicators: International cooperation increased



EXPECTED OUTPUTS AND INDICATORS 2



2.1. Output: Irradiation effects (side effects) on various materials of cultural heritage including artificial ageing of irradiated materials, and consolidation process for conservation of degraded materials and its long term behaviour evaluated

Indicators: Chapters in publications, papers, infos dedicated to irradiation side effects

2.2. Output: Knowledge transferred and Human Resources capacity enhanced

Indicators: Scientific visits and fellowships



EXPECTED OUTPUTS AND INDICATORS 3



3.1. Output: Project planning and timely assessment of progress and results conducted

Indicators: Careful project planning

3.2. Output: Bilateral collaboration and cooperation among participating countries enhanced

Indicators: Concluded Memorandums of Understanding

3.3. Output: The results of the project and effectiveness of the nuclear techniques for cultural heritage protection applied

Indicators: Increased information on nuclear techniques applied in cultural heritage area (booklets, audio-visuals etc.)



PROJECT RER/8/015 BUDGET



2009. 190.400 USD

2010. 140.350 USD

2011. 154.225 USD

TOTAL 484.975 USD





Thank you
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