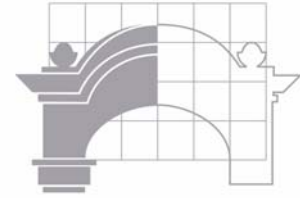




Institut Ruđer Bošković



IAEA
International Atomic Energy Agency
Atoms For Peace



**HRVATSKI
RESTAURATORSKI
ZAVOD**

Irradiation Methods in the Protection of Cultural Heritage
Zagreb, Croatia - 4 and 5 October, 2011
Programme of the Seminar

Tuesday, 4 October 2011, Mimara Museum, Rooseveltov trg 5, Zagreb, Croatia

8.30–9.30 *Registration*

Opening and introduction

9.00–9.30 Greetings

- Danica Ramljak, Director of the Ruđer Bošković Institute
- Ferdinand Meder, Director of the Croatian Conservation Institute
- Dragan Kubelka, Director of the Croatian State Office for Nuclear Safety
- Branka Katušin-Ražem, Croatian National Coordinator, IAEA project RER/8/015

Lectures:

Moderator: Mario Braun, Croatian Conservation Institute

9:30-9:50 Presentation of the Regional TC Project RER/8/015

- Nevenka Novosel, National Liaison Officer for the IAEA, Croatian State Office for Radiological and Nuclear Safety

9:50-10:15 Participation of Croatia in the Project RER/8/015

- Branka Katušin-Ražem, Ruđer Bošković Institute and Mario Braun, Croatian Conservation Institute

10:15-11:00 Irradiation Treatments for the Protection of Cultural Heritage Objects - French experience

- Quoc Khoi Tran, ARC – NUCLEART, Grenoble, France

11:00-11:30 *Coffee break*



First topic:

Irradiation Method for Desinsection and Disinfection of Cultural Heritage Artefacts

Biodegradation of Organic Cultural Heritage Artefacts

11:30-11:50 The Problem of Biodegradation of Cultural Heritage Artefacts in Museums, Collections and Sacral Buildings

- Želimir Laszlo, Museum Documentation Center

Gamma Irradiation and Its Effects on Materials

11.50-12.20 Principles of Desinsection and Disinfection of Cultural Heritage Artefacts Using Irradiation Method

- Dušan Ražem, Ruđer Bošković Institute

12.20-12.50 Effects of Gamma Irradiation on Organic Cultural Heritage Artefacts

- Irina Pucić, Ruđer Bošković Institute

12.50-13.15 Discussion

13:15-15.00 Lunch break

Examples of Successful Irradiation Method Applications in the Protection of Cultural Heritage Artefacts

15:00-15:30 Examples of Successful Application of Irradiation Methods in Europe

- Branka Katušin-Ražem, Ruđer Bošković Institute – introduction to short films “Ramses II - Le rayonnement de la resurrection” and “Restoring the Past / Preserving the Future by Nuclear Technologies”
Comments, FAQs: Quoc Khoi Tran, Branka Katušin Ražem and Mario Braun

15:30-16:00 Croatian Experience in Using Irradiation for the Protection of Cultural Heritage

- Branka Katušin-Ražem, Ruđer Bošković Institute – with screening of the film: “Conservation-Restoration of Dragoljub Raša Todosijević’s object «Nailed bread»

16.00-16.30 A Conservator-Restorer's Experience in the Practical Application of Irradiation Methods

- Romana Jagić, Croatian Conservation Institute

16.30-17.15 Exhibition Opening – “Examples of Successful Irradiation Method Applications in Croatia” and discussion of the posters

17.15-18.00 Discussion of the presentations and FAQs by conservators-restorers and other users of irradiation method



Wednesday, 5 October, 2011

Organized visits, for registered participants only

1st group	2nd group
09.00-10.00 Croatian Conservation Institute, Zmajevac 8 – A visit to conservation-restoration departments with demonstrations of conservation-restoration procedures on irradiated objects - guides: Mario Braun, Ana Dumbović, Anđelko Pedišić, Slobodan Radić, Ksenija Škarić, Marija Štrok	09.00-10.00 Ruđer Bošković Institute, Bijenička 54 – A working demonstration of the irradiation facility for the treatment of cultural heritage artefacts - guides: Branko Vekić and Branka Mihaljević
10.00-11.00 Ruđer Bošković Institute, Bijenička 54 – A working demonstration of the irradiation facility for the treatment of cultural heritage artefacts - guides: Branko Vekić and Branka Mihaljević	10.00-11.00 Croatian Conservation Institute, Zmajevac 8 – A visit to conservation-restoration departments with demonstrations of conservation-restoration procedures on irradiated objects - guides: Mario Braun, Ana Dumbović, Anđelko Pedišić, Slobodan Radić, Ksenija Škarić, Marija Štrok

11:00-11:30 *Coffee break at Ruđer Bošković Institute*

Ruđer Bošković Institute, Bijenička cesta 54, Lecture Hall, Building III

Second topic:

Using Irradiation Method for Consolidating Degraded Cultural Heritage Artefacts

Lectures:

Moderator: Irina Pucić, Ruđer Bošković Institute

11:30-12:30 Irradiation Consolidation of Degraded Heritage Objects by Impregnation with Radiation-Curable Resin

- Quoc Khoi Tran, ARC-Nucléart, Grenoble, France and the representative of the IAEA Project RER/8/015

12:30-13:00 Discussion on method's feasibility and the possibility of introducing radiation consolidation method in Croatia

consultations with the IAEA expert Quoc Khoi Tran – participants: Mario Braun, Croatian Conservation Institute and Irina Pucić, Franjo Ranogajec, Dušan Ražem and Tanja Jurkin, Ruđer Bošković Institute

The end of the seminar



Poster Exhibition
“Examples of Successful Irradiation Method Applications in Croatia“

Tuesday, 4 October 2011, Mimara Museum, Trg F. Roosevelta 5, Zagreb

1. Irradiation Treatment for the Protection of Cultural Heritage Objects – Croatian Experience

- Branka Katušin-Ražem¹, Mario Braun² and Dušan Ražem¹,
1: Ruđer Bošković Institute, 2: Croatian Conservation Institute, Zagreb

Rescuing Artworks During the Homeland War, 1991-1995

2. An Overview of the Current State of Wooden Polychromed Sculptures from Gora

- Lana Lalić and Nevena Krstulović, Croatian Conservation Institute - Department for Wooden Polychrome Sculpture

3. The St. Cross Altar from the Blessed Virgin Mary of the Snow Church in Kamensko

- Siniša Cvetković and Romana Jagić, Croatian Conservation Institute - Department for Wooden Polychrome Sculpture

4. A Survey of the Microbiological Activity on Samples of Polychromed Wood

- Dragica Krstić¹, Romana Jagić²
1: Croatian Conservation Institute – Natural Science Laboratory (in 1998),
2: Croatian Conservation Institute - Department for Wooden Polychrome Sculpture

Successful examples after 1995

5. The Virgin Mary Polyptych from the St. Francis Church in Pula

- Romana Jagić, Croatian Conservation Institute - Department for Wooden Polychrome Sculpture

6. Disinsection of Book Bindings by γ - Radiation

- Igor Kozjak and Tatjana Mušnjak, Croatian State Archives, Zagreb

7. Garments of the Tilters of Sinj

- Bernarda Rundek-Franić, Croatian Conservation Institute – Department of Textiles

8. Post-irradiation Analysis of Textiles Infested with Fungi

- Katja Kavkler¹, Andrej Demšar², Nina Gunde Cimerman³, Polona Zalar³,
1: Zavod za varstvo kulturne dediščine Slovenije, Restavratorski center, Ljubljana, Slovenija; 2: Univerza v Ljubljani, Naravoslovnotehniška fakulteta, Oddelek za tekstilstvo, Ljubljana, Slovenija; 3: Univerza v Ljubljani, Biotehniška fakulteta, Oddelek za biologijo, Ljubljana, Slovenija

9. Preventive Conservation of Liturgical Textiles from the Franciscan Monastery in Slavonski Brod

- Maja Vrtulek, Croatian Conservation Institute – Ludbreg Conservation Centre

10. Ethnographic Objects – Preventive Disinsection by Irradiation

- Mihaela Grčević, Ethnographic Museum, Zagreb

11. Project "Atelier Kožarić" – Conservation of Objects by Irradiation Disinsection

- Iva Rada Janković, Museum of Contemporary Art, Zagreb



The following films will be screened:

1. **Conservation-Restoration of Dragoljub Raša Todosijević's object „Nailed bread“ / *Konzervatorsko-restauratorski radovi na objektu Dragoljuba Raše Todosijevića „Pribijeni kruh“***

Production: Museum of Contemporary Art, Zagreb, 2011

Conservation – restoration works: Zlatko Bielen M.A., conservator – restorer counselor

Idea and concept: Mirta Pavić, Zlatko Bielen

Shooting and mounting: Jovan Kliska

Text: Zlatko Bielen

Voice: Tatjana Kliska

Associates:

Raša Todosijević, author of the installation

Jadranka Winterhalter, Museum counselor

Branka Katušin – Ražem Ph.D., Ruđer Bošković Institute

2. **Ramses II - Le rayonnement de la resurrection**

- Commesariat a l'energie atomique – service d'application de radio element et de rayonnement, France

3. **Restoring the Past / Preserving the Future by Nuclear Technologies**

- Horia Hulubei Institute for Physics and Nuclear Engineering & IRASIM - Radiation Processing Centre, Romania

LECTURERS

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