

Radioactivity - Radionuclides - Radiation
8th Nuclear Science Training Course with Nuclides.net
Institut "Jožef Stefan", Ljubljana, Slovenia, 13th-15th Sept. 2006

Agenda:

Day 1: Wednesday 13th September 2006

1. Welcoming address

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|------|--|---------------------|
| 9:00 | Welcoming Address | I. Jencic |
| 9:10 |  Training Course Overview | J. Magill |
| 9:40 | Participants Introduction | All |

2. Nuclides.net/NUCLEONICA

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|-------|--|--------------------|
| 10:00 |  Introduction to Nuclides.net | J. Magill |
| 10:20 |  Case Study <i>New Edition of the Karlsruhe Nuclide Chart</i> | J. Galy/C. Normand |

Coffee 10:40

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|-------|--|---------------------|
| 11:00 |  Case Study Nuclide charts, nuclear data, searchable databases | J. Galy/V. Berthou |
| 11:20 |  Exercises  Relevant Publications Any other material | |
| 11:40 |  Case Study Decay Engine | C. Normand/T. Zagar |
| 12:00 |  Exercises  Relevant Publications Any other material | |

12:30 Lunch

3. Interaction of radiation with matter

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|-------|--|------------------|
| 13:30 |  Interaction of photons with matter | J. Galy |
| 14:05 |  Case Study <i>γ-dosimetry & shielding</i> | M. Tufan/J. Galy |
| 14:25 |  Exercises  Relevant publications Any other material | |
| 14:45 |  Interaction of heavy charged particles with matter | T. Wiss |

15:15 Coffee

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|-------|--|----------|
| 15:45 |  Interaction of electrons with matter | M. Tufan |
| 16:05 |  Case Study Range & Stopping power | T. Wiss |
| 16:25 |  Exercises  Relevant publications Any other material | |


17:00 Bus departure to hotel

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Day 2: Thursday 14th September 2006

3. Interaction of radiation with matter (cont'd)

- 9:00  [Interaction of neutrons with matter](#) D. Hamilton
- 9:25  Case Study [Fission Yields & Oklo](#) D. Hamilton
- 9:45  Exercises  [Relevant publications](#) Any other material

4. Nuclear Security







- 10:05  [Nuclear Forensics & Illicit Trafficking](#) A. Morgenstern

Coffee 10:45

11:00 Visit to IJS laboratories





Lunch 12.45

4. Nuclear Security (cont'd)

- 13:45  Case Study [Age of Nuclear Material](#) A. Morgenstern
- 14:05  Exercises  [Relevant publications](#) [Any other material](#)
 [Relevant publications](#) [Any other material](#)
- 14:25  [Non-proliferation & nuclear safeguards](#) P. Peerani
- 15:00  Case Study [Verification of spent fuel elements in ponds](#) V. Berthou

Coffee 15:20

5. Nuclear Medicine

- 15:40  [Radio-immunotherapy with \$\alpha\$ -emitters](#) A. Morgenstern
- 16:15  Case Study [\$\alpha\$ -emitters for radiotherapy](#) F. Bruchertseifer
- 16:35  Exercises  [Relevant publications](#) Any other material
- 17:00 Bus departure to hotel

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Agenda:

Day 3: Friday 15th September 2006



6. Environmental Radioactivity

9:00  [Environmental Radioactivity](#) B. Pucelj

9:30  [Environmental Radioactivity II](#) F. Bruchertseifer

7. Advanced Nuclear Studies


10:00  Nuclear Science with [High Intensity Lasers](#) T. Zagar

 [Relevant publications](#)  [Relevant publications](#)

 [Relevant publications](#)  [Relevant publications](#)

Coffee 10:30

10:50  [Neutron Activation Studies](#) A. Berlizov

11:30  [JRC Presentation & Opportunities](#) V. Esteban

12:00 Lunch

8. TEST & Feedback

13:00  [Course TEST](#)

Coffee 15:00

15:20  TEST results

15:40  [Feedback](#)

16:00  [Course Certificate & poster](#)

16:15 End of Course