



The Abdus Salam  
**International Centre  
for Theoretical Physics**



**2473-2**

**Joint ICTP-IAEA School on Nuclear Energy Management**

*15 July - 3 August, 2013*

**Overview**

T. Karseka

*IAEA, Vienna, Austria*

# **IAEA-ICTP School of Nuclear Energy Management**

**Trieste, Italy 15 July – 2 August 2013**

## **Overview**

Tatiana Karseka, IAEA

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**Yanko Yanev**



**Tatiana Karseka**



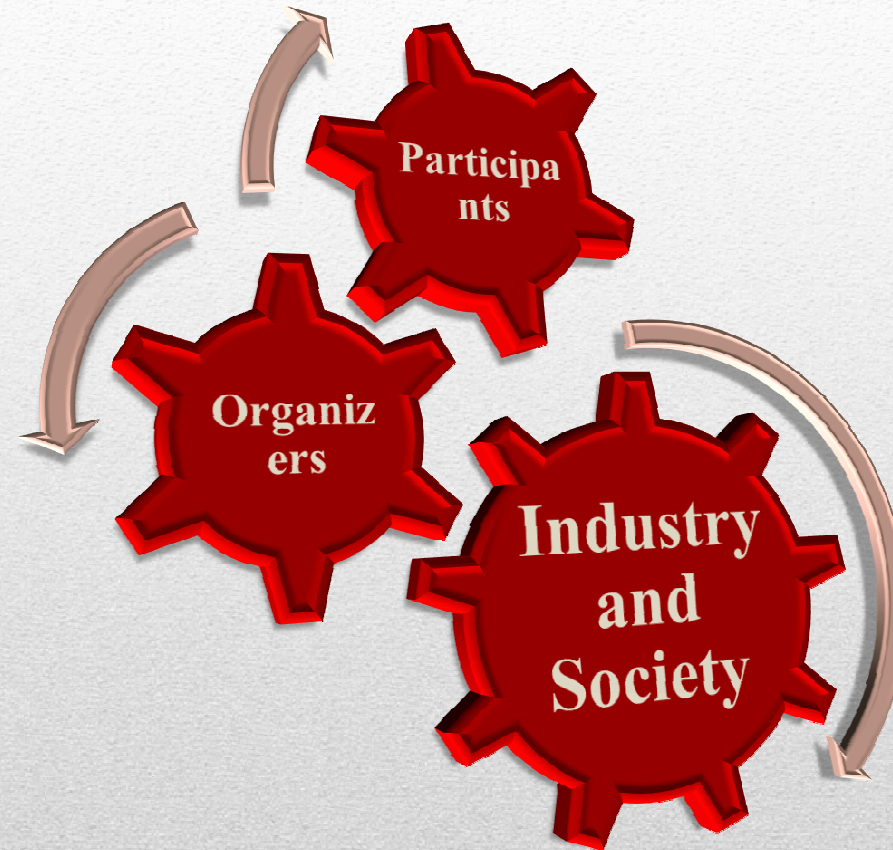
**Ave Lusenti**



**We are there for you!**

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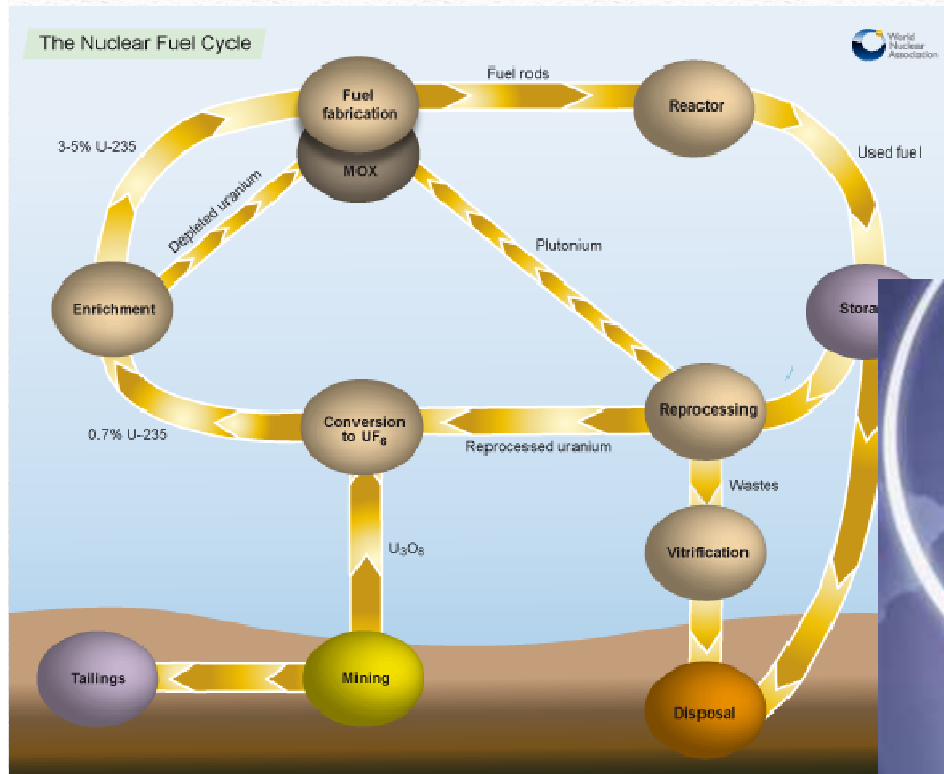
- **building future leadership to manage nuclear energy programmes**

You will have a broad overview and will be aware of the status and challenges of Nuclear Power

## **Purpose of the School**

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## > World Energy Balance, Comparison 1973 to 2007



# Module 1: Nuclear Energy Policy and Management

- **Nuclear Power Policies**
  - **Reactor Technologies**
  - **The Nuclear Power Fuel Cycle and Innovation**
  - **Nuclear Safety in the Global World**
  - **Regulating Nuclear Power**
  - **Nuclear Security and Physical Protection**
  - **Nuclear Safeguards and Non-Proliferation**
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# Module 2: Designing a Nuclear Power Programme

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- **Background of Making an Informative Decision,**
  - **Setting the Scene for Nuclear Power: Decisions and Strategies**
  - **Nuclear Legislation**
  - **Launching and Managing a Nuclear Project**
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- **Capacity Building for a Nuclear Power, incl. HR, KM, Education**
- **Nuclear Energy and the Public**
- **Be Prepared for the Unexpected**
- **Management Systems for Facilities and Activities**

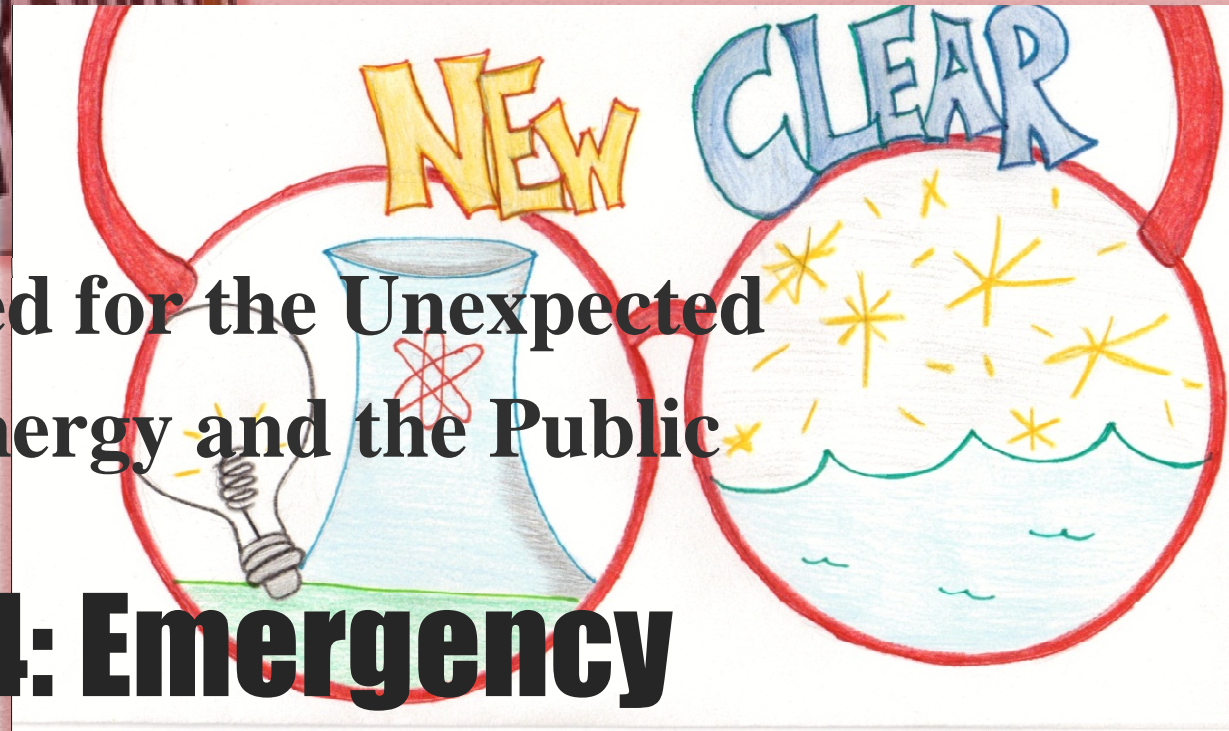
## **Module 3: Managing a Nuclear Enterprise**







- Be Prepared for the Unexpected
- Nuclear Energy and the Public



# **Module 4: Emergency Preparedness and Public Communication**

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- **Lecturing**
- **Question and answer sessions**
- **Seminars and exercises**
- **Video sessions**
- **Group projects**
- **Technical tours**

# **Methods of Teaching and Learning**

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# Technical Tours

23 July	ICJT (the Nuclear Training Centre "Milan Copic"), Jozef Stefan Institute, Ljubljana, Slovenia
29 July	Krsko Nuclear Power Plant, Krsko, Slovenia

**Copies of your passports,  
TODAY**

- **Active participation in discussions, national presentations, case studies and Q&A sessions – 30%**
- **Group projects – 30%**
- **Final Exam– 40%**

## **Evaluation (Certificate)**



- Individual and podium discussions, dialogues
- Intranet (P:\shared\smr2473)
- Group activities and projects
- Questions!!!
- Photos and videos!!!
- Feedback (programme sheet, End of Event Questionnaire)
- Post event word of mouth propaganda

**Students' contribution  
towards the process**

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## **6 Areas for deeper investigation:**

- 1. Energy Planning**
  - 2. Legal Framework**
  - 3. Fuel Cycle and Waste Management**
  - 4. Safety, Security and Safeguards**
  - 5. Human Resource**
  - 6. Communication and Outreach**
- **Sheet in your folder (to be submitted by 16:00)!!!**

## **Group Projects**

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- Collective work during the whole school (‘Work on the projects’ slots integrated into the schedule and outside of School hours)
- You chose a country and work out your scenario for your specific country.
- You make a group presentation at the last day (20 min for presenting, 10 min for questions)



## Group Projects



- **Consists of 50-60 multiple choice questions**  
**Lasts for 75 min**
- **Computer based**
- **Covers all the subject areas**
- **Is based mainly on the presentation materials and main reference material (which will be mentioned by lecturers)**

**Final Exam**

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# Graduation Ceremony Gala dinner

**Fairy well!**





**Let us have the best  
school ever!**

