



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



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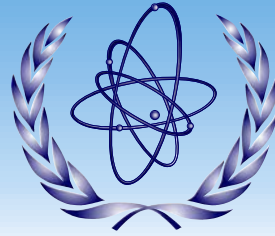
Joint ICTP-IAEA School of Nuclear Knowledge Management

1 - 5 September 2008

**School of Nuclear Knowledge Management:
Strategy approach and achievements**

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International Atomic Energy Agency

School of nuclear knowledge management: strategy, approach and achievements

A. Kosilov, IAEA (INIS & NKM Section)

School of Nuclear Knowledge Management,

1 - 5 September 2008

Trieste, Italy

Past, Present, Future



IAEA
International Atomic Energy Agency

2004: Workshop on Managing Nuclear Knowledge, 8-12 November 2004.



2005: Technical Meeting/Workshop on Managing Nuclear Knowledge, 22- 26 August 2005.

2006: School of Nuclear Knowledge Management, 18-22 September 2006.



2007: School of Nuclear Knowledge Management, 24-28 September 2007.

2008: School of Nuclear Knowledge Management, 1- 5 September 2008.

2009: School of Nuclear Knowledge Management, 28 September – 2 October 2009.



Workshop on Managing Nuclear Knowledge – 2004

- 45 participants from 23 countries, including delegates from Academia, Operating Organizations, Technical Support and Research Centers and Medical Facilities
- The objective of the Workshop was to give participants an overview and basic understanding of the tools, mechanisms and challenges of Nuclear Knowledge Management



Workshop on Managing Nuclear Knowledge – 2004: **Main topics**

- **Managing and Preserving Nuclear Knowledge**
- **Managing Nuclear Information**
- **Managing Nuclear Knowledge in the Nuclear Industry**
- **Human Resources and Training**
- **Networking Education and Training**
- **Nuclear Communications**



Workshop on Managing Nuclear Knowledge – 2004: **Approach**

- **Presentations**
- **Practical sessions and demonstrations**
- **Informal discussions**
- **Poster session (participants)**
- **Participants presentations**
- **Power and non-power applications**



Workshop on Managing Nuclear Knowledge – 2004: Recommendations

- **To shift workshop emphasis in the future from teaching concepts to a “Know-how”**
- **Regional workshops**
- **Case studies**
- **Practical sessions**
- **Knowledge loss risk management**
- **KM in different subject areas**



Technical Meeting/Workshop on Managing Nuclear Knowledge - 2005

- 41 participants from 24 countries and three international organizations
- The purpose of the workshop was to continue efforts to raise awareness of the nuclear knowledge management challenge, to share best practices, and provide a forum for the exchange of information among participating nuclear professionals.



Workshop on Managing Nuclear Knowledge – 2005 – Main Topics

- **Policies and Strategies in Nuclear Science and Technology,**
- **Managing Nuclear Information Resources,**
- **Human Resources and Knowledge Transfer for the Nuclear Sector,**
- **Managing and Preserving Knowledge in Nuclear Sector,**
- **Networking for Education, Training and Knowledge Transfer.**



Workshop on Managing Nuclear Knowledge – 2005 Recommendations

- **To increase NKM awareness through the regional workshops and NKM training programs at the facilities, which should include management.**
- **Topic-specific meeting should be organized enabling sharing of experience and identification of common problems for solution development through regional IAEA Projects on Nuclear Knowledge Management.**



Follow up actions



Follow up actions

- **KM assist visits: Krsko NPP (Slovenia), Kozloduy NPP (Bulgaria), Paks NPP (Hungary)**
- **New regional projects promoting KM culture: Asian region and Europe region (start in 2007)**
- **National KM project in Kazakhstan**
- **Regional (Europe) workshop on Managing Nuclear Knowledge, Sevastopol, Ukraine, June 2006**



Schools of Nuclear Knowledge Management Trieste, 2006 and 2007

- **To provide an overview and basic understanding of the tools, mechanisms and challenges in Nuclear Management**
- **To exchange experiences and information on implementation of Nuclear Knowledge Management, and**
- **To present the lessons learned and accumulate national experiences and good practices in the subject area**



Main Subject Topics

- **Policies and Strategies in NKM**
- **Human Resources and Knowledge Transfer**
- **Practical Examples of KM**
- **Managing Nuclear Information Resources**
- **Networking for Education and Training**



School of Nuclear Knowledge Management Trieste, September 2006 - Conclusions

- **2006: 36 participants from 23 countries**
- **2007: 46 participants from 26 countries**
- **The end-of-event questionnaire and the evaluation session showed that the most of the participants confirmed that the School was very useful to them and that they would try to implement some of the ideas discussed at their national organizations.**
- **All presentation materials have been posted on the INIS-NKM web site, a CD ROM version was sent to all participants as well.**



**A special session
on comparison of curricula in non-power nuclear
applications and development of recommendations for their
improvement in 2007**

- **To share experience and approaches in non-power nuclear education, in particular in development of educational curricula,**
- **To identify the basic trends and knowledge management needs to be addressed in order to support non-power nuclear countries activities, and**
- **To obtain overall comments and recommendations on the subject and the further IAEA activities in the subject area.**



School of Nuclear Knowledge Management

The Abdus Salam International Centre for Theoretical Physics

Miramare, Trieste, Italy

1 – 5 September 2008

Organized by the

Abdus Salam International Centre for Theoretical Physics (ICTP)
International Atomic Energy Agency (IAEA)
Nuclear World Association (WNA)



School of Nuclear Knowledge Management Trieste, September 2008

- **Six technical sessions:**
 - Basic of Knowledge Management
 - Policies and Strategies in NKM
 - HRM and Knowledge Transfer
 - Managing Nuclear Information Resources
 - Methods and Tools for KM including Practical Examples
 - Networking for Education and Training
- **Invited presentation – D. Hoffman, USA**
- **Practical sessions and case studies**
- **Participants' poster session**
- **Test**
- **Certificate**



Training Material

- **Handbook of Nuclear Knowledge Management: Second Edition (Draft)**
- **Full Text Resource Material for Handbook.. – on CD ROM**
- **Case Study Material**
- **Glossary**
- **Supporting materials on NKM**
- **All presentations – on CD ROM shortly after the School**



Our Key Lecturers

Donald Hoffman, Excel Services Corp., USA

Dimitris Karagiannis, Vienna University, Austria

Peter Puhr-Westerheide, GRS, Germany

Ed Boyles, USA

**Ian Upshall, Nuclear Decommissioning
Authority, UK**

Madiba Saidy, WNU

Csaba Sükösd, ENEN Association

Yanko Yanev, IAEA

Petr Firbas, IAEA

Andrey Pryakhin, IAEA



Questions?

