



Regional (Asia) Workshop on Managing Nuclear Knowledge

22 - 26 October 2007
Tokyo Institute of Technology, Japan

Monday, 22 October
- Open to the public -

Ferrite Conference Room, 3rd floor, Centennial Hall

09:30-10:00 Registration

10:00-11:00 OPENING SESSION

Chair: *Mr. Masanori Aritomi*, Tokyo Inst. of Technology

10:00-10:08 Welcome address: *Mr. Masuo Aizawa*, Tokyo Inst. of Technology

10:08-10:16 Congratulatory remarks:

Mr. Shunsuke Kondo, Atomic Energy Commission of Japan

10:16-10:24 Opening remarks: *Mr. Yanko Yanev*, IAEA

10:24-10:30 Information: Tokyo Inst. of Technology

10:30-11:00 **MORNING BREAK** (Including Photo Session)

11:00-12:30 SESSION 1: Policy Forum on International Initiatives for Nuclear Knowledge Management

Chair: *Ms. Keiko Hanamitsu*, IAEA

11:00-11:30 Managing Nuclear Knowledge and the IAEA
Mr. Yanko Yanev, IAEA

11:30-12:00 Knowledge Management Challenges to Assure Sustainable Development of Nuclear Energy Utilization Management in Japan
Mr. Shunsuke Kondo, Atomic Energy Commission of Japan

12:00-12:30 Education Philosophy and Policy of Tokyo Inst. of Technology
Mr. Chitoshi Miki, Tokyo Institute of Technology

12:30-14:00 **LUNCH BREAK**

14:00-17:30 SESSION 1: Policy Forum on International Initiatives for Nuclear Knowledge Management (cont')

Chair: *Mr. Yanko Yanev*, IAEA

14:00-14:25 Future Prospect of Human Resources in Asian Nuclear Industry
Ms. Byung-Joo Min, Korea Atomic Energy Research Institute (KAERI)

14:25-14:50 Japan's Nuclear Energy National Plan and Nuclear Energy Human Resource Development Program
Mr. Junichi Yokota, Agency for Natural Resources and Energy, Ministry of Economy, Trade and Industry (METI)

14:50-15:15 Skills and Competency Management
Mr. Gary Cairns, Risktec Solutions Ltd., UK

15:15-15:45 **AFTERNOON BREAK**

15:45-16:10 Strategy for Japan's Next-Generation Nuclear System R&D, Knowledge Enhancing - Present and Future
Mr. Takamichi Iwamura, Japan Atomic Energy Agency (JAEA)

16:10-16:35 Current Issues of Nuclear Knowledge Loss in USA
Mr. Ed Boyles, USA

16:35-17:00 Nuclear Disciplines in Response to Industry and Regulatory Needs through the European Nuclear Education Network (ENEN) Association
Mr. Joseph Safieh, ENEN Association

17:00-17:25 Knowledge Management in a German TSO – the GRS Experience
Mr. Gerald Diepolder, GRS, Germany

18:00-20:00 WELCOME RECEPTION (Ferrite Conference Room)

Tuesday, 23 October

On and after this day, the Workshop will be held in
E1001 Conference Room, 10th floor, West Bldg #8E

- 09:30 Registration (official participants and observers only)
- 09:35-09:45 Introduction of participants
- 09:45-12:30 SESSION 2: Strategy for Implementation of Nuclear Knowledge Management**
Chair: *Ms. Byung-Joo Min*, KAERI
- 09:45-10:10 Future Prospect of Nuclear Knowledge and Information Resources
Mr. Minoru Yonezawa, JAEA
- 10:10-10:35 World Nuclear University (WNU) Programmes and 2007 Summer Institute
Mr. Philippe Hauw, WNU Coordinating Centre
- 10:35-11:00 Second International Conference on Managing Nuclear Knowledge
Mr. Yanko Yanev, IAEA
- 11:00-11:15 **MORNING BREAK** (Including Photo Session)
- 11:15-11:40 ANSN as a Tool of Knowledge Management on Nuclear Safety
Mr. Kazuhide Tomita, Japan Nuclear Energy Safety Organization (JNES)
- 11:40-12:05 Education and Training Measures at GRS
Mr. Gerald Diepolder, GRS, Germany
- 12:05-12:30 Activities for Enhancement of Nuclear Safety Culture
– Approach to Explicit Knowledge from Tacit Knowledge –
Mr. Nobuyuki Naohara, Japan Nuclear Technology Institute (JANTI)
- 12:30-14:00 **LUNCH BREAK**
- 14:00-15:00 SESSION 2: Strategy for Implementation of Nuclear Knowledge Management**
Panel Discussion on Impression and Feedback from NKM Programmes
Chair: *Mr. Yanko Yanev*, IAEA
- 2007 WNU Summer Institute in Korea
 - Workshop for Establishing Policies and Strategies to Preserve and further Enhance NK, Obninsk, Russia
 - School of NKM in Trieste

15:00-17:30 Country Report on National Activities for Nuclear Knowledge Management

Chair: *Ms. Keiko Hanamitsu*, IAEA

Presenters: Participants from the Asian region and Russian Federation

15:00-15:15 *Ms. Pu Yang*, China

15:15-15:30 *Mr. M. Ramanamurthi*, India

15:30-15:45 *Mr. Supria*, Indonesia

15:45-16:15 **AFTERNOON BREAK**

16:15-16:30 *Ms. Rapieh Aminuddin*, Malaysia

16:30-16:45 *Mr. Muhammad Aslam*, Pakistan

16:45-17:00 *Ms. Flora Santos*, The Philippines

17:00-17:15 *Mr. H.M.N.R. Bandara*, Sri Lanka

17:15-17:30 *Ms. Natalia Bunits*, Russian Federation

Wednesday, 24 October

09:30-12:30 SESSION 3: Asian Initiatives for Nuclear Education & Training for Next Generation

Chair: *Mr. Philippe Hauw*, World Nuclear University (WNU)

09:30-09:55 Japan MEXT's Initiative to Promote Exchange of Nuclear Scientists and Researchers
Mr. Ryosuke Murayama, Ministry of Education, Culture, Sports, Science and Technology (MEXT)

09:55-10:20 Development of Nuclear Industry and NKM in Japan: its History
Mr. Toshiro Kitamura, Japan Atomic Industrial Forum (JAIF)

10:20-10:45 Present and Future Status of Nuclear Human Resources Development in Vietnam
Mr. Vuong Huu Tan, Vietnam Atomic Energy Commission (VAEC)

10:45-11:15 **MORNING BREAK**

11:15-12:05 Role of Tokyo Institute of Technology for Knowledge Transfer to Next Generation

- (a) Human Resource Development in Nuclear Engineering
Mr. Yasuhiko Fujii, Tokyo Institute of Technology

- (b) COE-INES (Centre of Excellence Programme – Innovative Nuclear Energy Systems) Captainship Programme
Mr. Hiroshi Sekimoto, Tokyo Institute of Technology

12:05-12:30 Asian Network for Education in Nuclear Technology (ANENT)
Ms. Keiko Hanamitsu, IAEA

12:30-14:00 **LUNCH BREAK**

14:00-15:30 SESSION 3: Asian Initiatives for Nuclear Education & Training for Next Generation (cont')

Chair: *Mr. Yanko Yanev, IAEA*

14:00-14:30 "Failure Knowledge Database" to Learn Lessons from Past Experience

Mr. Yotaro Hatamura, Kogakuin University, Japan

14:30-15:00 Specifics of Nuclear Engineering Courses in Russian Universities

Mr. Vladimir Artisyuk, Obninsk State University for Nuclear Power Engineering (OINPE), Russian Federation

15:00-15:30 Special Programme:

Fact about Earthquake at Kashiwazaki-Kariwa NPS in Japan

Mr. Kenichi Isomura, Japan Nuclear Technology Institute (JANTI)

15:30-16:00 **AFTERNOON BREAK**

16:00-17:30 TV Conference between Tokyo Institute of Technology and Obninsk State University for Nuclear Power Engineering (OINPE)

Co-Chairs: *Mr. V. Murogov, Mr. Vladimir Artisyuk, OINPE*

1. *Mr. V. Murogov*
2. Obninsk students
3. Obninsk staff

Thursday, 25 October

09:30-12:30 SESSION 4: Needs and Role of Nuclear Knowledge Management in Innovative Technology Development

Chair: *Mr. Vladimir Artisyuk, OINPE*

09:30-10:00 NKM Challenge in Reactor Physics

Mr. Vladimir Artisyuk, OINPE, Russian Federation

10:00-10:30 Needs and Role of Knowledge Management in Japanese Fast Reactor Program including Monju

Mr. Satoru Kondo, JAEA

10:30-11:00 **MORNING BREAK**

11:00-11:30 University's Role and Action for Innovative Science and Technology

Mr. Toshikazu Takeda, Osaka University

11:30-12:00 Knowledge Management Initiatives at AECL

Mr. Carl Turner, Atomic Energy of Canada Ltd. (AECL)

12:00-12:30 NKM role for Innovative Technology Development

Mr. Toshiyuki Takahashi, Hitachi GE Nuclear Energy Ltd.

12:30-14:00 **LUNCH BREAK**

14:00-16:30 STUDENTS FORUM - open to the public -

Chair: *Mr. Hiroshi Sagara, Tokyo Institute of Technology (Tokyo Tech)*

14:00-14:30 1. Introduction of Nuclear Engineering Education at Osaka University

Mr. Tadafumi Sano, Osaka University

14:30-15:10 2. Student Activities in IAEA Internship and World Nuclear University (WNU) at Tokyo Tech

(1) Report of IAEA Internship

Mr. Kotaro Kondo, Tokyo Tech

(2) Experience in WNU Summer Institute 2007

Mr. Hiroki Takezawa, Tokyo Tech

15:10-15:30 **AFTERNOON BREAK**

15:30-16:30 3. Educational Game Production for Better Public Relationship at Tokyo Tech.

(1) "Proposal of New Game Concept "Gen Puzzle"

Mr. Jun Nishiyama and Mr. Kei Takano (Tokyo Tech)

(2) "Proposal of New Game Concept "Power House"

Mr. Takashi Sawabe, Mr. So Kamada, Mr. Sou Ryuzaki,

Mr. Akito Nagata, Mr. Suguru Nishinomiya,

Mr. Jun Nishiyama, Mr. Kei Takano (Tokyo Tech)

Ms. Anna S. Nikiforova, Mr. David M. Carpenter,

Mr. Gerardi D. Craig, Mr. Matthew J. Memmott,

Ms. Micheal P. Short (Massachusetts Institute of

Technology, MIT)

(3) Proposal of New Game Concept "MEV"

Mr. Akito Nagata, Mr. Jun-ichi Yamane,

Mr. Suguru Nishinomiya, Mr. So Kamada,

Mr. Sou Ryuzaki (Tokyo Tech)

16:30-18:00 Technical Visit

- Facility tour in Research Laboratory for Nuclear Reactors, Tokyo Institute of Technology

Friday, 26 October

09:30-10:00 CLOSING SESSION

Chair: *Mr. Hiroshi Akatsuka*, Tokyo Inst. of Technology

09:30-09:45 Closing Address: *Mr. Yanko Yanev*, IAEA

09:45-10:00 Closing Remarks: *Mr. Masaki Saito*, Tokyo Inst. of Technology

10:00-12:00 Cultural Exchange with Tokyo Tech staff and participants

12:00-13:20 **LUNCH BREAK**

13:30-17:30 <Technical Tour>