

## TIME TABLE

### Monday, 2 June 2003

08:00	Registration
10:00	Opening Session
11:00	Session 1
12:30	Lunch Break
14:00	Session 1 (continued)
15:30	Coffee Break
16:00	Session 1 (continued)
18:00	Reception

### Tuesday, 3 June 2003

09:00	Session 2
10:30	Coffee Break
11:00	Session 2 (continued)
12:30	Lunch Break
14:00	Session 2 (continued)
15:10	Coffee Break
15:40	Session 3

### Wednesday, 4 June 2003

09:00	Panel Discussion
10:30	Coffee Break
11:00	Session 3 (continued)
12:30	Lunch Break
14:00	Session 3 (continued)
15:30	Coffee Break
16:00	Poster Session A

### Thursday, 5 June 2003

09:00	Session 4
10:30	Coffee Break
11:00	Session 4 (continued)
12:30	Lunch Break
14:00	Session 4 (continued)
15:40	Coffee Break
16:10	Poster Session B

### Friday, 6 June 2003

09:00	Concluding Session
10:00	Coffee Break
10:30	Summary and Panel Discussion
11:30	Closing Remarks



INTERNATIONAL ATOMIC ENERGY AGENCY

IAEA-CN-102

**INTERNATIONAL CONFERENCE ON STORAGE  
OF SPENT FUEL FROM POWER REACTORS**

**Vienna, Austria**

**02-06 June 2003**

**REVISED PROVISIONAL PROGRAMME**

**MONDAY, 02 JUNE 2003**

**08:00-10:00 REGISTRATION**

**10:00-11:00 OPENING SESSION**

**Welcoming Address  
IAEA Overview of Global Spent Fuel Storage  
OECD/NEA Overview**

**11:00-12:30 SESSION 1:  
NATIONAL PROGRAMME PRESENTATIONS**

**Session Chair: L. Biro, Romania  
Co-chair: D.O. Brasnarof, Argentina**

---

<i>No. of Paper</i> <i>IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member</i> <i>State or</i> <i>Organization</i>	<i>Title of Paper</i>
1	<b>M. Audero</b> R. Versaci A. Bevilacqua J. Sidelnik	Argentina	Management of spent fuel from power reactors in Argentina
9	<b>J. Coufal</b> K. Brzobohatý	Czech Republic	Spent fuel storage facilities in the Czech Republic
23	<b>F. Takáts</b> G. Buday	Hungary	Spent fuel dry storage in Hungary
24	<b>H.B. Kulkarni</b> K. Agarwal R.S. Soni	India	Spent Fuel Storage in India

---

12:30-14:00 Lunch

---

**14:00-15:30**

**SESSION 1:  
NATIONAL PROGRAMME PRESENTATIONS (continued)**

---

<i>No. of Paper IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member State or Organization</i>	<i>Title of Paper</i>
32	<b>I. Krivov</b>	Lithuania	New interim spent fuel storage facility at IGNALINA NPP
36	<b>L. Biro</b> A. Rodna	Romania	Implementation of Romanian NPP spent fuel management strategy - a regulatory approach
44	<b>J. Vaclav</b>	Slovakia	Storage of spent fuel in Slovakia
46	<b>J.E. Martinez</b> J.A. Gago	Spain	Update on spent fuel and HLW management in Spain

---

15:30-16:00 Coffee Break

---

**16:00-17:50**

**SESSION 1:  
NATIONAL PROGRAMME PRESENTATIONS (continued)**

---

<i>No. of Paper IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member State or Organization</i>	<i>Title of Paper</i>
49	N. Steinberg <b>A.A. Afanasyev.</b>	Ukraine	National policy in the area of spent fuel management in Ukraine: current status and trends (prospective)
64	<b>P.Ch. von Dobschuetz</b>	Germany	The German policy and strategy on the storage of spent fuel
65	<b>Y. Ikoma</b>	Japan	Spent fuel management strategy in Japan
71	<b>P.A. Brown</b>	Canada	Canada's national policy on the long term management of nuclear fuel waste
80	V. M. Korotkevich <b>E.G. Kudryavtsev</b>	Russian Federation	Some aspects of the Russian nuclear fuel cycle development

---

Session wrap up

---

18:00 **RECEPTION**

---

**TUESDAY, 03 JUNE 2003**

**09:00-10:30      SESSION 2:  
TECHNOLOGIES**

**Session Chair:    T. Saegusa, Japan  
Co-chair:         V. Roland, France**

---

<i>No. of Paper IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member State or Organization</i>	<i>Title of Paper</i>
14	<b>V. Roland</b> M. Chiguer Y. Guénon	France	Dry storage technologies: keys to choosing among metal casks, concrete shielded steel canister modules and vaults
2	<b>D.O. Brasnarof</b> J. E. Bergallo	Argentina	Conceptual design for an intermediate dry storage facility for Argentinean ATUCHA spent fuel
17	<b>B. Arndt</b> R. Klaus K. Wasinger	Germany	Advanced spent fuel storage pools
20	<b>A. Vossnacke</b> V. Hoffmann R. Nöring W. Sowa	Germany	Management of spent fuel from power and research reactors using castor and constor casks and licensing experience in Germany

---

10:30-11:00	Coffee Break
-------------	--------------

---

11:00-12:30

**SESSION 2:  
TECHNOLOGIES (continued)**

<i>No. of Paper IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member State or Organization</i>	<i>Title of Paper</i>
28	<b>S. Matsuoka</b> N. Uchiyama H. Kawakami M. Yasuda T. Yokoyama	Japan	Verification of dual-purpose metal cask integrity
48	<b>C.C. Carter</b> H.A. Doubt M. Teramura E. Yoshimura	UK Japan	Multi-purpose canister storage of spent nuclear fuel in modular vault system
56	<b>A.S. Hanson</b> P. Chollet	USA France	International experience of storing spent fuel in NUHOMS systems
30	<b>K. Shirai</b> M. Wataru H. Takeda T. Saegusa	Japan	Current status of R&D program of spent fuel storage technology in CRIEPI
12:30-14:00	Lunch		

**14:00-15:10 SESSION 2:  
TECHNOLOGIES (continued)**

<i>No. of Paper IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member State or Organization</i>	<i>Title of Paper</i>
61	<b>W. Danker</b> K. Schneider	IAEA Germany	Optimization of cask capacity for long term spent fuel storage
62	<b>J.S. Lee</b>	IAEA	Selection of AFR facilities for spent fuel storage
79	<b>J.R. Roberts</b> D. Tulberg C. Carter	USA UK	The Idaho spent fuel project
	Session wrap up		
15:10-15:40	Coffee Break		

15:40-17:50

**SESSION 3:  
EXPERIENCE & LICENSING**

**Session Chair: K.A. Gruss, USA**  
**Co-chair: F. Takáts, Hungary**

---

<i>No. of Paper IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member State or Organization</i>	<i>Title of Paper</i>
55	<b>K.A. Gruss</b> G. Hornseth	USA	U.S. Nuclear Regulatory Commission acceptance criteria and cladding considerations for the dry storage of spent fuel
6	<b>A.K. Khan</b> F. King	Canada	Regulatory approval of used fuel dry storage facilities in Canada – an Ontario power generation case study
11	<b>P. Lietava</b> L. Barták S. Kuba	Czech Republic	Current status of the spent fuel management from power reactors in the Czech republic (licensing and operational experience)
15	<b>A. Verdier</b> V. Roland M. Lebrun	France	Transport and interim storage casks in Switzerland
33	<b>P. Poskas</b> V. Simonis A. Smaizys	Lithuania	Comparison of the main characteristics for castor and constor casks loaded with spent RBMK-1500 nuclear fuel
35	<b>V. Andrei</b> F. Glodeanu I. Daian	Romania	The licensing process of Cernavoda interim spent fuel dry storage

**WEDNESDAY, 04 JUNE 2003**

**09:00-10:30 INVITED PANEL DISCUSSION**

**TECHNICAL & REGULATORY  
CHALLENGES RAISED BY LONG  
TERM STORAGE**

**A.J. Machiels (Chair)** USA  
**P.H. Grahn** Sweden  
**T. Saegusa** Japan  
**A.Y. Lebedev** Russian Federation  
**E. Vapirev** Bulgaria

---

10:30-11:00 Coffee Break

---

**11:00-12:30 SESSION 3:  
EXPERIENCE & LICENSING (continued)**

---

<i>No. of Paper IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member State or Organization</i>	<i>Title of Paper</i>
73	<b>H. Fluegge</b>	Germany	On-site intermediate storage facilities in Germany
40	<b>T.F. Makarchuk</b> N.S. Yanovskaya V.N. Ershov	Russian Federation	Ensuring safety in handling the casks with irradiated nuclear fuel
41	<b>T.F. Makarchuk</b> N.S. Yanovskaya V.N. Ershov V.D. Guskov B.A. Kalin	Russian Federation	Research in corrosion resistance of structural materials of metal and concrete casks for spent nuclear fuel
53	<b>Y.Y. Trehub</b>	Ukraine	The construction and operation experience of the interim spent fuel storage facility at the Zaporizhzhya nuclear power plant

---

12:30-14:00 Lunch

---

**14:00-15:30**      **SESSION 3:  
EXPERIENCE & LICENSING (continued)**

<i>No. of Paper IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member State or Organization</i>	<i>Title of Paper</i>
66	<b>G.I. Zellbi</b>	Sweden	Experience from extension and licensing of the Swedish central interim storage facility for spent fuel, CLAB, from 5000 to 8000 metric tonnes
70	<b>K.G. Sarparanta</b>	Finland	Experience of the operation of the interim storage facility for spent fuel in Olkiluoto
	<b>W.A. Birkholz</b> U. Feller R.H. Herrmann	Germany	Storage of spent fuel from the nuclear power plants Greifswald and Rheinsberg in the interim storage north
76	<b>S.R. Jones</b> S. Weerokkody	USA	Licensing experience and technical issues related to wet storage of spent fuel in the United States
Session wrap up			
15:30-16:00	Coffee Break		



**16:00-18:00 POSTER SESSION A:**

<i>No. of Poster IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member State or Organization</i>	<i>Title of Poster</i>
3/P	A. Jalil <b>M. Monzurul Haque</b> M.A. Zulquarnain G. Rabbani	Bangladesh	The status of storage of spent fuel from reactors: Bangladesh perspective
7/P	<b>W. Zhang</b> X. Xue	China	Spent Fuel Management in China
8/P	<b>Y. Wang</b>	China	Status and prospects for spent fuel management in China
10/P	<b>J. Hejna</b> J. Schmid M. Valach V. Příman	Czech Republic	Computer simulation of 3D steady and 2D transient thermal loading of castor 440/84 using FEM
22/P	<b>G. Hordósy</b> A. Keresztúri S. Patai Szabó P. Vértes	Hungary	Safety analysis of the C30 spent fuel cask for the extended range of loading parameters
25/P	<b>V.N. Sakhivel Rajan</b> B. S. Sodhi S. Govindarajan S. C. Chetal	India	Design of spent fuel storage of prototype fast breeder reactor
26/P	<b>Z. Salimin</b>	Indonesia	Spent fuel management strategy for future nuclear power plants operation in Indonesia
34/P	<b>W. Ahmed</b> M. Arshad	Pakistan	Dry storage of spent KANUPP-fuel and booster rod assemblies
37/P	<b>M. Radu</b> F. Glodeanu V. Andrei C. Talmazan	Romania	Experience in performing the Cernavoda spent fuel interim storage facility
42/P	<b>V. Chrapčiak</b>	Slovakia	Comparison of subcriticality of the interim spent fuel storage before and after modification

**THURSDAY, 05 JUNE 2003**

**09:00-10:30      SESSION 4:  
RESEARCH & DEVELOPMENT**

**Session Chair:    J.A. Gago, Spain  
Co-Chair:        P.N. Standing, UK**

---

<i>No. of Paper IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member State or Organization</i>	<i>Title of Paper</i>
13	<b>C. Ferry</b> C. Poinsot P. Lovera J.-M. Gras	France	Key issues from the French R&D project on the long term evolution of the spent nuclear fuel in conditions of interim dry storage
5	T. Apostolov <b>M. Manolova</b> S. Belousov R. Prodanova	Bulgaria	Verification of the scale modular code system for criticality safety and depletion analyses of WWER spent fuel facilities
16	<b>M. Amme</b> D. Wegen D. Papaioannou B. Christiansen S. van Winckel S. Birck, J. P.Glatz	European Commission	Secondary phase formation during interaction of spent nuclear fuel and cladding material during long term storage and disposal leaching tests
21	<b>C. Györi</b> Z. Hózer	Hungary	Transuranus simulation of WWER cladding creep under dry storage conditions

---

10:30-11:00	Coffee break
-------------	--------------

---

11:00-12:30

**SESSION 4:  
RESEARCH & DEVELOPMENT (continued)**

---

<i>No. of Paper IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member State or Organization</i>	<i>Title of Paper</i>
18	<b>W. Goll</b> H.P. Fuchs A.C. Leger	Germany France	UO <sub>2</sub> and MOX fuel behaviour in long term dry storage
27	<b>K. Kamimura</b> N. Kohno K. Itoh Y. Tsukuda M. Aomi T. Yasuda K. Murai H. Fujii Y. Irisa	Japan	Thermal creep tests of BWR and PWR spent fuel cladding
29	<b>A. Sasahara</b> T. Matsumura	Japan	Post irradiation examinations of twenty years stored spent fuel
31	<b>K.S. Seo</b> H.S. Shin J.C. Lee K.S. Bang H.D. Kim S.W. Park	Korea, Republic of	Assessment of the storage concept for conditioned spent fuel

---

12:30-14:00	Lunch
-------------	-------

---

14:00-15:40

**SESSION 4:  
RESEARCH & DEVELOPMENT (continued)**

<i>No. of Paper IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member State or Organization</i>	<i>Title of Paper</i>
19	<b>J.C. Neuber</b>	Germany	Use of burnup credit in criticality safety design analysis of spent fuel storage systems
39	A.V. Vatulin A.G. Ioltukhovsky <b>I.M. Kadarmetov</b> N.B. Sokolov V.P. Veljukhanov	Russian Federation	Validation of dry storage modes for RBMK-1000 spent fuel assemblies (SFA)
68	<b>J.Y.R. Rashid</b> A.J. Machiels	USA	Examination of the creep rupture phenomenon and the development of an acceptance criterion for spent fuel dry storage
58	<b>K. Suyama</b> A. Nouri H. Mochizuki Y. Nomura	OECD/NEA Japan	SFCOMPO: A database for isotopic composition of nuclear spent fuel; current status and future development
Session wrap up			
15:40-16:10	Coffee Break		

<i>No. of Poster IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member State or Organization</i>	<i>Title of Poster</i>
43/P	<b>D. Belko</b>	Slovakia	Capacity extension of the Bohunice storage facility
45/P	<b>B. Kurinčič</b> A. Persic	Slovenia	The NPP KRSKO reracking project
47/P	<b>T. Akbas</b> O. Zabunoglu M. Tombakoglu	Turkey	Evaluation of nuclear fuel cycle scenarios with respect to some parameters important for spent fuel storage
50/P	Y. Pechera A. Luchnaya <b>O. Dvoyeglazov</b>	Ukraine	Spent fuel storage facility of Zaporizhzhya NPP: creation, licensing, operation
57/P	N.N. Dien P.V. Lam <b>T.S. Nguyen</b> L.B. Vien	Vietnam	The storage of spent fuel in Vietnam: present status and prospects
67/P	<b>N.D. Shchigolev</b> J.S. Blinnikov O.M. Golubev V.D. Guskov S.L. Smolsky P.A. Sushkov	Russian Federation	Gamma ray control of metal and concrete cask radiation protection
72/P	<b>T.F. Makarchuk</b> O.V. Sergeeva N.B. Zaitsev	Russian Federation	Technique of monitoring cladding integrity of RBMK-1000 spent fuel assemblies after long term storage
74/P	<b>S. Talanov</b> V. Tkachenko	Kazakhstan	Concept of BN-350 spent fuel handling during its storage after shutdown
77/P	<b>S. V. Pavlov</b> V.P. Smirnov A.V. Mytarev I.I. Vlasenko A.V. Biley	Russian Federation  Ukraine	Methods for WWER-1000 fuel testing under dry storage conditions

**FRIDAY, 06 JUNE 2003**

**09:00-12:00 CONCLUDING SESSION**

**Session Chair: K. Fukuda, IAEA**

**09:00-10:00 IAEA PRESENTATIONS**

---

<i>No. of Paper IAEA-CN-102</i>	<i>Name(s)</i>	<i>Designating Member State or Organization</i>	<i>Title of Paper</i>
	<b>B.-K. Kim</b>	IAEA	Perspective of the TC Programme on spent fuel management from power reactors
	<b>P. Metcalf</b>	IAEA	Nuclear Safety activities of relevance to spent fuel management
	<b>G. Bosler</b>	IAEA	IAEA safeguards verification methods for spent fuel in wet & dry storage
10:00-10:30	Coffee break		
10:30-11:30	<b>SESSION SUMMARIES</b>		
	<b>L. Biro</b>	Romania	Session 1
	<b>T. Saegusa</b>	Japan	Session 2
	<b>K.A. Gruss</b>	USA	Session 3
	<b>A.J. Machiels</b>	USA	Panel Discussion
	<b>J.A. Gago</b>	Spain	Session 4
11:30-12:00	<b>CLOSING REMARKS - IAEA</b>		

---

**AGENCY PUBLICATIONS RELATED TO THE SUBJECT OF THE CONFERENCE**

<b>DOCUMENT NUMBER</b>	<b>TITLE</b>	<b>YEAR</b>
IAEA-TECDOC-1012	Durability of spent nuclear fuels and facility components in wet storage	1998
IAEA-TECDOC-1013	Implementation of burnup credit in spent fuel management systems	1998
IAEA-TECDOC-1061	Remote technology in spent fuel management	1999
IAEA-TECDOC-1080	Procedures and techniques for the management of experimental fuels from research and test reactors	1999
IAEA-TECDOC-1081	Spent fuel storage and transport cask decontamination and modification	1999
IAEA-TECDOC-1089	Storage of spent fuel from power reactors	1999
IAEA-TECDOC-1100	Survey of wet and dry spent fuel storage	1999
IAEA-TECDOC-1103	Status and trends in spent fuel reprocessing	1999
IAEA-TECDOC-1192	Multi-purpose container technologies for spent fuel management	2000
IAEA-TECDOC-1241	Implementation of burnup credit in spent fuel management system	2001
IAEA-TECDOC-1293	Long term storage of spent nuclear fuel – survey and recommendations	2002
IAEA-TECDOC-1316	Effects of radiation and environmental factors on the durability of materials in spent fuel storage and disposal	2002
IAEA-TECDOC-1343	Spent fuel performance assessment and research	2003