

TIMETABLE

Monday, 2 December 2002

08.00-09.00	Registration
09.00-09.30	Opening
09.30-10.15	Introductory Session
10.15-10.30	Coffee Break
10.30-12.00	Background Session
12.00-13.30	Lunch
13.30-14.30	Background Session (cont'd)
14.30-15.30	Poster Session and Coffee Break
15.30-17.00	Panel Discussion with Senior Executives from Nuclear Organizations
19.30	Welcome Reception

Tuesday, 3 December 2002

09.00-09.40	Topical Session 1. Management of Safety and Safety Culture
09.40-10.20	Topical Session 2. The Role of the Regulator
10.20-10.40	Coffee Break
10.40-12.00	Parallel Sessions with Presentations and Discussions (Topics 1 and 2)
12.00-13.30	Lunch
13.30-15.00	Parallel Sessions with Presentations and Discussions (cont'd)
15.00-15.30	Coffee Break
15.30-17.00	Summary and Conclusions of Topical Sessions 1 and 2

Wednesday, 4 December 2002

09.00-09.40	Topical Session 3. Assessment of the Management of Safety and Safety Culture
09.40-10.20	Topical Session 4. Changing the Safety Culture
10.20-10.40	Coffee Break
10.40-12.00	Parallel Sessions with Presentations and Discussions (Topics 3 and 4)
12.30-13.30	Lunch
13.30-15.00	Parallel Sessions with Presentations and Discussions (cont'd)
15.00-15.30	Coffee Break
15.30-17.00	Summary and Conclusions of Topical Sessions 3 and 4

Thursday, 5 December 2002

08.00-17.00	Visits to Angra 1 and 2 NPP and INB Fuel Fabrication Facilities
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Friday, 6 December 2002

09.00-10.15	INSAG Members Discussion
10.15-10.30	Coffee Break
10.30-11.15	Summary, conclusions and recommendations to the IAEA
11.15-11.45	IAEA Conclusions based on recommendations
11.45-12.00	Formal Closing of the Conference

MONDAY, 2 DECEMBER 2002

08:00-09.00 **Registration**

09.00-09.30 **Formal Opening of the Conference**

T. Taniguchi, DDG-Nuclear Safety, IAEA

J. M. Esteves dos Santos, President of the Brazilian Nuclear Energy Commission (CNEN)

F. Decat, President of Eletronuclear, Brazil

R. Nogueira da Franca, President of Industrias Nucleares of Brazil

09.30-10.15 **Introductory Session**

09.30-09.45 A. Carnino, IAEA Introductory Remarks

09.45-10.15 C. Packer, Canada Introductory Speech by
Conference Chairperson

10.15-10.30 *Coffee Break*

10.30-12.00 **Background Session**

Chairperson: J. Spitalnik, Brazil

10.30-11.00 K. Dahlgren Persson, IAEA Update on IAEA Developments

11.00-11.30 C. Packer, Canada Advancing the Management of Safety and
Safety Culture

11.30-12.00 N. Durbin, USA Regulatory Strategies—an Overview

12.00-13.30 *Lunch Break*

13.30-14.30 E. Schein, USA The Difficult Cultural Issues in Promoting Safety

14.30-15.30 **Poster Session and Coffee Break**

15.30-17.00 **Panel Discussion with Senior Executives from Nuclear Organizations**

Chairperson: L. Keen, Canada

Panel Members: L. Stricker, France

S. Lau, China

J. Melin, Sweden

P. Figureido, Brazil

B. Gordon, Russia

19.30 *Welcome Reception*

TUESDAY, 3 DECEMBER 2002

09.00-10.20 Topical Sessions 1 and 2 - Keynote Presentations

Chairperson: A. Caubit, Brazil

Topic 1: Management of Safety and Safety Culture

09.00-09.40 K. Talbot, Canada Keynote Paper

Topic 2: The Role of the Regulator

09.40-10.20 A. Lacoste, France Keynote Paper

10.20-10.40 *Coffee Break*

10.40-12.00 Paralell Session Topic 1: Management of Safety and Safety Culture Presentations and Discussions

Chairperson: A. Daniels, WANO, Paris

Co-Chair: M. Serban, Romania

10.40-11.00 Introduction by the Chairperson

11.00-11.30 C. Packer, Canada A Framework for the Organizational Assumptions Underlying Safety Culture (IAEA-CN-97/15)

11.30-12.00 Su Shengbing, China LNPS Safety Culture Enhancement during Operations Preparation (IAEA-CN-97/16)

10.40-12.00 Paralell Session Topic 2: The Role of the Regulator Presentations and Discussions

Chairperson: J. Loy, Australia

Co-Chair: G. Caruso, Argentina

10.40-11.00 Introduction by the Chairperson

11.00-11.30 G. Schwarz, P.Philipps, Canada Canadian Regulatory Perspectives on Organisation and Management Assessment (IAEA-CN-97/51)

11.30-12.00 R. F. Fernandez, A. Guillen Campos, Cuba National Program for the Fostering and Development of Safety Culture in the Nuclear Activities in Cuba (IAEA-CN-97/18)

12.00-13.30 *Lunch Break*

TUESDAY, 3 DECEMBER 2002

**13.30-17.00 Paralell Session Topic 1 (continued)
Presentations and Discussions**

Chairperson: A. Daniels, WANO
Co-Chair: M. Serban, Romania

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| 13.30-14.00 | O. Andersson, C. Rollenhagen,
Sweden | The MTO concept and Organizational
Learning at Forsmark NPP
(IAEA-CN-97/42) |
| 14.00-14.30 | J. Markus, K. Feik,
Slovak Republic | Safety Culture at Mochovce NPP
(IAEA-CN-97/41) |
| 14.30-15.00 | I. Rotaru, S. Ghita
L. Biro,
Romania | Assessing Progress in the Development
of Safety Culture
(IAEA-CN-97-37) |
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**13.30-17.00 Paralell Session Topic 2 (continued)
Presentations and Discussions**

Chairperson: J. Loy, Australia
Co-Chair: G. Caruso, Argentina

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| 13.30-14.00 | G. Svensson, A. Lekberg,
Sweden | Management of Safety and Safety Culture
in Regulatory Work—Reflections
and Examples
(IAEA-CN-97/43) |
| 14.00-14.30 | C. Salgado Gonzalez,
J. Blanco Lara,
Mexico | Safety Culture in Mexico
(IAEA-CN-97/31) |
| 14.30-15.00 | C.T.M. Camargo, E.B. Furieri,
L.A.I. Arrieta, C.U.C. Almeida,
Brazil | Safety Culture as a Matter of Control
and Regulatory Effectiveness
(IAEA-CN-97/7) |
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15.00-15.30 Coffee Break

15.30-17.00 Summary and Conclusions of Topical Sessions 1 and 2

Chairperson: A. Caubit, Brazil

Presentations in Plenum by Chairs/Co-chairs

WEDNESDAY, 4 DECEMBER 2002

09.00-10.20 Topical Session 3 and 4 - Keynote Presentations

Chairperson: M. Ishikawa, Japan

Topic 3: Assessment of the Management of Safety and Safety Culture

09.00-09.40 H. Rycraft, UK Keynote Paper

Topic 4: Changing the Safety Culture

09.40-10.20 R. Cameron, Australia Keynote Paper

10.20-10.40 *Coffee Break*

10.40-12.00 Paralell Session Topic 3: Assessment of the Management of Safety and Safety Culture Presentations and Discussions

Chairperson: NN

Co-Chair: NN

10.40-11.00 Introduction by the Chairperson

11.00-11.30 I. Fucks and F. Hardeman, Belgium Safety Culture in a Belgian Nuclear Research Centre from a Social Science Point of View (*IAEA-CN-97/6*)

11.30-12.00 I.J. Obadia, M.C.R. Vidal, P.F. Melo, Brazil Total Safety Management Model (*IAEA-CN-97/8*)

10.40-12.00 Paralell Session Topic 4: Changing the Safety Culture Presentations and Discussions

Chairperson: NN

Co-Chair: NN

10.40-11.00 Introduction by the Chairperson

11.00-11.30 G. Ashbridge, USA Transforming the Organization: One Nuclear Power Plant's Journey (*IAEA-CN-97/50*)

11.30-12.00 M.G. Chollet, C. Normier, M. Girault, D. Tasset, France Safety and Human Factors Impacts of Introducing Quality Management into High-Risk Industries (*IAEA-CN-97/21*)

12.00-13.30 *Lunch Break*

WEDNESDAY, 4 DECEMBER 2002

**13.30-17.00 Paralell Session Topic 3 (continued)
Presentations and Discussions**

Chairperson: NN

Co-Chair: NN

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| 13.30-14.00 | A. Ueno, Y. Nagano,
S. Matsuura,
Japan | Analysis of Safety Culture Components
based on Site Interviews
(IAEA-CN-97/27) |
| 14.00-14.30 | S. Haber, D. A. Shurberg
USA | The Safety Performance Management
System: A Tool for Diagnosis, Intervention
and Measurement
(IAEA-CN-97/48) |
| 14.30-15.00 | G.A. Alexeev, V.N. Abramova,
E.V. Volkov, I.V. Volkova,
O.V. Gordienko,
T.B. Melnitskaya,
Russia | Practical Applications of Safety Culture
Concepts in Human Performance Advances
in the Russian Nuclear Industry
(IAEA-CN-97/38) |
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**13.30-17.00 Paralell Session Topic 4 continued
Presentations and Discussions**

Chairperson: NN

Co-Chair: NN

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| 13.30-14.00 | S.J. Bastin, R. F.Cameron
Australia | Enhancing the Safety Culture of Non-Power
Nuclear Installations: Initiatives within the
Forum for Nuclear Cooperation in Asia
(IAEA-CN-97/2) |
| 14.00-14.30 | E. Selvatici,
J.M. Diaz-Francisco,
V. Diniz de Souza,
Brazil | Eletronuclear's Safety Culture Assessment
and Enhancement Program
(IAEA-CN-97/9) |
| 14.30-15.00 | J. S. Goncalves, A. C. Barreto,
Brazil | Assessment of Safety Culture from the
INB Organization—A Case Study for
Nuclear Fuel Cycle Industry
(IAEA-CN-97/13) |
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15.00-15.30 Coffee Break

15.30-17.00 Summary and Conclusions of Topical Sessions 3 and 4

Chairperson: M. Ishikawa, Japan

Presentations in Plenum by Chairs/Co-chairs

THURSDAY, 5 DECEMBER 2002

08.00-17.00 **Visits to Angra 1 and 2 NPP and INB Fuel Fabrication Facilities**

FRIDAY, 6 DECEMBER 2002

09.00-10.15 **INSAG Members Discussion:**
What was expected when they introduced the term and
what happened since then?

Chairperson: NN

Members: Lepecki, Brazil
 D. Taylor, UK
 Yuman Zhang, China

10.15-10.30 *Coffee Break*

10.30-11.15 **Summary, conclusions and recommendations to the IAEA**

Chairperson: **A. Carnino, IAEA**

C. Packer, Canada Conference Chairperson

11.15-11.45 **IAEA Conclusions based on recommendations**

A. Carnino, IAEA

11.45-12.00 **Formal Closing of the Conference**

LIST OF POSTERS

Topic 1: Management of Safety and Safety Culture

<i>No. of paper IAEA-CN-97</i>	<i>Name(s)</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
4p	<u>A. Jalil</u> G. Rabbani	Bangladesh	Safety Culture in Nuclear Installations: Bangladesh Perspectives and Key Lessons Learned from Major Events
25p	S. C. Rawal	India	Management of Safety and Safety Culture in Indian NPPs
39p	A. Kolotov	Russia	Management and Safety Culture at the Russian NPPs
44p	S. Keinmeesuke	Thailand	Operation of TRR-1/M1 for 25 Years and Lessons Learned in Management of Safety and Safety Culture
49p	J. van Erp	USA	Safety Culture and the Accident at Three Mile Island

Topic 2: The Role of the Regulator

1p	S. Perez	Argentina	The Role of the Regulator in Promoting and Evaluating Safety Culture
5p	A. Mikhalevic	Belarus	Safety Culture and Public Acceptance
14p	V. Miliovsky	Bulgaria	Development of Safety Culture at Kozloduy NPP—The Role of the Regulatory Body
19p	A. Guillen Campos	Cuba	Creating a Safety Culture in the Regulatory Authority: The Cuban Experience
22p	J. Ronaky	Hungary	Assessment of Safety Culture: Changing Regulatory Approach in Hungary
29p	A. Karigi	Kenya	Safety culture in Nuclear Installations— The Role of the Regulator
47p	M. J. Tyrer	UK	Managing for Safety and Safety Culture within the UK Nuclear Industry—A Regulator's Perspective

Topic 3: Assessment of the Management of Safety and Safety Culture

10p	J. Spitalnik	Brazil	Experiences in Assessing Safety Culture
11p	P. Macedo Soares	Brazil	Statistical Analysis Applied to Safety Culture Self-Assessment—A Survey Example
17p	Zhou Weihong	China	Tradition, a Bridge to Innovative Safety Culture
20p	J. Mandula	Czech Republic	Safety Culture Management and Quantitative Indicator Evaluation
23p	<u>M. Pushparja</u> M. C. Abani	India	Safety Culture in a Major Nuclear Fuel Cycle Facility
24p	S. A. Khan	India	Different Regulatory Strategies in Regulation of Nuclear Power Projects—An Indian Experience
30p	S. Lesin	Lithuania	Assessment of Safety Culture at INPP

Topic 4: Changing the Safety Culture

12p	H. Villar	Brazil	Nuclear Safety—Culture or Obsession?
33p	A. Golab	Poland	The Safety Culture Change Process Performed in Polish Research Reactor MARIA
35p	<u>I. Rotaru</u> V. Covalachi	Romania	A Change of Attitude: From Rescue to Prevention