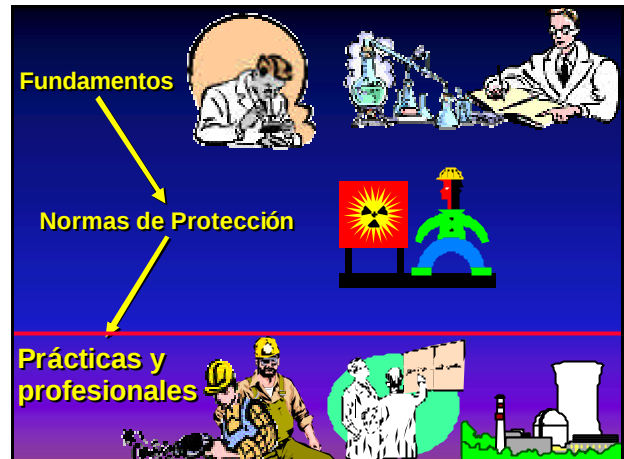
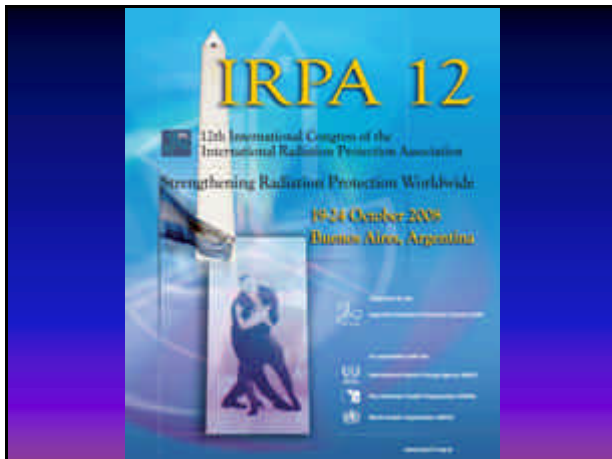




La Troika del Congreso IRPA12

- Epistemología de las radiaciones**

Fundamentos, métodos, validez y alcance del conocimiento científico actual

- Paradigma de la Protección**

Esquemas conceptuales para mantener seguras a las personas

- La Protección Radiológica en la Práctica**

Cómo hacerlo: su aplicación por parte de los profesionales

Main Fields & Scientific Areas

Main Fields	Scientific Areas
I <i>Epistemological basis of radiation protection</i>	I.1 Characterization of Radiation Exposure
	I.2 Biological Effects of Radiation Exposure
II <i>Radiation Protection Paradigm</i>	II.1 Developing the Radiation Protection Framework
	II.2 Developing Protection Policies, Criteria, Methods and Culture
	II.3 Emergency Planning, Preparedness & Response
III <i>Radiation Protection and Safety in Practice</i>	III.1 Nuclear Installations
	III.2 NIRs
	III.3 Medicine
	III.4 NORM in Industry
	III.5 Other applications and practices

Main Fields	Scientific Areas	Topics to be discussed
I <i>Epistemological basis of radiation protection</i>	I.1 Characterization of Radiation Exposure	1.1.1 Basic concepts 1.1.2 Measurement of radiation exposure 1.1.3 Dosimetry 1.1.4 Biological effects of radiation exposure 1.1.5 Radiation protection
	I.2 Biological Effects of Radiation Exposure	1.2.1 Basic concepts 1.2.2 Measurement of radiation exposure 1.2.3 Dosimetry 1.2.4 Biological effects of radiation exposure 1.2.5 Radiation protection
II <i>Radiation Protection Paradigm</i>	II.1 Developing the Radiation Protection Framework	2.1.1 Basic concepts 2.1.2 Measurement of radiation exposure 2.1.3 Dosimetry 2.1.4 Biological effects of radiation exposure 2.1.5 Radiation protection
	II.2 Developing Protection Policies, Criteria, Methods and Culture	2.2.1 Basic concepts 2.2.2 Measurement of radiation exposure 2.2.3 Dosimetry 2.2.4 Biological effects of radiation exposure 2.2.5 Radiation protection
	II.3 Emergency Planning, Preparedness & Response	2.3.1 Basic concepts 2.3.2 Measurement of radiation exposure 2.3.3 Dosimetry 2.3.4 Biological effects of radiation exposure 2.3.5 Radiation protection
III <i>Radiation Protection and Safety in Practice</i>	III.1 Nuclear Installations	3.1.1 Basic concepts 3.1.2 Measurement of radiation exposure 3.1.3 Dosimetry 3.1.4 Biological effects of radiation exposure 3.1.5 Radiation protection
	III.2 NIRs	3.2.1 Basic concepts 3.2.2 Measurement of radiation exposure 3.2.3 Dosimetry 3.2.4 Biological effects of radiation exposure 3.2.5 Radiation protection
	III.3 Medicine	3.3.1 Basic concepts 3.3.2 Measurement of radiation exposure 3.3.3 Dosimetry 3.3.4 Biological effects of radiation exposure 3.3.5 Radiation protection
	III.4 NORM in Industry	3.4.1 Basic concepts 3.4.2 Measurement of radiation exposure 3.4.3 Dosimetry 3.4.4 Biological effects of radiation exposure 3.4.5 Radiation protection
	III.5 Other applications and practices	3.5.1 Basic concepts 3.5.2 Measurement of radiation exposure 3.5.3 Dosimetry 3.5.4 Biological effects of radiation exposure 3.5.5 Radiation protection

PROGRAMA GENERAL IRPA12

Session	Topic	Chair	Co-Chair	Speakers	Time
1	Opening Ceremony				09:00-10:00
2	Registration				09:00-10:00
3	Plenary Session				10:00-11:00
4	Plenary Session				11:00-12:00
5	Plenary Session				12:00-13:00
6	Plenary Session				13:00-14:00
7	Plenary Session				14:00-15:00
8	Plenary Session				15:00-16:00
9	Plenary Session				16:00-17:00
10	Plenary Session				17:00-18:00
11	Plenary Session				18:00-19:00
12	Plenary Session				19:00-20:00
13	Plenary Session				20:00-21:00
14	Plenary Session				21:00-22:00
15	Plenary Session				22:00-23:00
16	Plenary Session				23:00-24:00
17	Plenary Session				24:00-25:00
18	Plenary Session				25:00-26:00
19	Plenary Session				26:00-27:00
20	Plenary Session				27:00-28:00
21	Plenary Session				28:00-29:00
22	Plenary Session				29:00-30:00
23	Plenary Session				30:00-31:00
24	Plenary Session				31:00-32:00
25	Plenary Session				32:00-33:00
26	Plenary Session				33:00-34:00
27	Plenary Session				34:00-35:00
28	Plenary Session				35:00-36:00
29	Plenary Session				36:00-37:00
30	Plenary Session				37:00-38:00
31	Plenary Session				38:00-39:00
32	Plenary Session				39:00-40:00
33	Plenary Session				40:00-41:00
34	Plenary Session				41:00-42:00
35	Plenary Session				42:00-43:00
36	Plenary Session				43:00-44:00
37	Plenary Session				44:00-45:00
38	Plenary Session				45:00-46:00
39	Plenary Session				46:00-47:00
40	Plenary Session				47:00-48:00
41	Plenary Session				48:00-49:00
42	Plenary Session				49:00-50:00
43	Plenary Session				50:00-51:00
44	Plenary Session				51:00-52:00
45	Plenary Session				52:00-53:00
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66	Plenary Session				73:00-74:00
67	Plenary Session				74:00-75:00
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69	Plenary Session				76:00-77:00
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81	Plenary Session				88:00-89:00
82	Plenary Session				89:00-90:00
83	Plenary Session				90:00-91:00
84	Plenary Session				91:00-92:00
85	Plenary Session				92:00-93:00
86	Plenary Session				93:00-94:00
87	Plenary Session				94:00-95:00
88	Plenary Session				95:00-96:00
89	Plenary Session				96:00-97:00
90	Plenary Session				97:00-98:00
91	Plenary Session				98:00-99:00
92	Plenary Session				99:00-100:00

Background Sessions

- **UNSCEAR / WHO - EPISTEMOLOGY OF RADIATION PROTECTION.**
Status of levels and effects of radiation
- **ICRP/ICNIRP/ICRU - PARADIGM OF RADIATION PROTECTION.**
Harmonization of recommendations (common approach!)
- **IAEA in collaboration with WHO, FAO, ILO, NEA/OECD, EC, PAHO - HARMONIZATION OF RADIATION SAFETY.** Towards an international safety regime
- **STAKEHOLDER INVOLVEMENT IN DECISION-MAKING, IRPA RECOMMENDATIONS**

Epistemology

Characterisation of Radiation Exposure

- ✓ External Exposure to Ionizing Radiation (I & II)
- ✓ Internal Exposure
- ✓ Biological Dosimetry

Biological Effects of Radiation Exposure

- ✓ Effects on Molecules, Organelles & Cells
- ✓ Effects on Tissues and Organs (including hereditary and prenatal effects)
- ✓ Radiopathology
- ✓ Radio-epidemiology

Paradigm

- **Developing the Radiation Protection Framework**
 - Evolving International Safety Regime
 - National Infrastructures
 - Education, training and staffing
 - Safety and Security of Radiation Sources
- **Developing Protection Policies, Criteria, Methods and Culture**
 - Scope of Radiation Protection
 - Protection of the Public & Environment (I & II)
 - Occupational Protection
 - Protection of Patients
- **Emergency Planning, Preparedness & Response**
 - Nuclear and Radiological Emergencies
 - Medical Response in Emergencies
 - Emergency Aftermath and Recovery

Practitioners

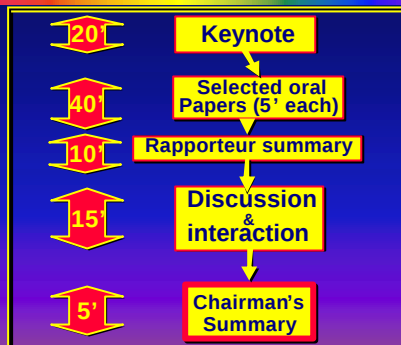
- **Nuclear Industry**
 - ✓ Nuclear Reactors
 - ✓ Nuclear Fuel-Cycle Facilities
 - ✓ Decommissioning and Restoration
 - ✓ Radioactive Waste Management
- **NIR**
 - ✓ Power frequency electric and magnetic fields
 - ✓ Mobile Telecommunications
 - ✓ Optical radiation and ultrasound
 - ✓ Emerging EMF technologies
- **Medicine**
 - ✓ RP in Diagnostic Radiology (I & II)
 - ✓ RP in Interventional Radiology
 - ✓ RP in Nuclear Medicine
 - ✓ RP in Radiotherapy
- **NORM in Industry**
 - ✓ Uranium Mining and Processing
 - ✓ Other Minerals Mining and Processing
 - ✓ Oil and Gas
 - ✓ NORM and radon issues in building
- **Other applications and practices**
 - ✓ Transport of Radioactive Materials
 - ✓ Industrial, Research Applications and security screening
 - ✓ Radon and the Public
 - ✓ Flights and Space

Nº de
abstracts
recibidos:
en total
1500

Nº de
abstracts
recibidos
por
sesiones
temáticas

Topical Session	Number of abstracts
I.1 External Exposure to Ionizing Radiation	150
I.2 Internal Exposure	80
I.3 Biological Dosimetry	25
I.4 Effects on Molecules, Organelles & Cells	43
I.5 Effects on Tissues and Organs	27
I.6 Radiopathology	12
I.7 Radioepidemiology	43
II.1 Evolving International Safety Regime	14
II.2 National Infrastructures	45
II.3 Education, Training and Staffing	32
II.4 Safety and Security of Radiation Sources	31
II.5 Scope of Radiation Protection	19
II.6 Protection of the Public & Environment	108
II.7 Occupational Protection	66
II.8 Protection of Patients	38
II.9 Nuclear and Radiological Emergencies	64
II.10 Medical Response in Emergencies	18
II.11 Emergency Aftermath and Recovery	14
III.1 Nuclear Reactors	28
III.2 Nuclear Fuel Cycle Facilities	21
III.3 Decommissioning and Restoration	33
III.4 Radioactive Waste Management	53
III.5 Power Frequency Electric and Magnetic Fields	11
III.6 Mobile Telecommunications	12
III.7 Optical Radiation and Ultrasound	9
III.8 Emerging EMF Technologies	7
III.9 RP in Diagnostic Radiology	105
III.10 RP in Interventional Radiology	36
III.11 RP in Nuclear Medicine	70
III.12 RP in Radiotherapy	50
III.13 Uranium Mining and Processing	15
III.14 Other Minerals Mining and Processing	26
III.15 Oil and Gas	12
III.16 NORM in Building and Radon	26
III.17 Transport of Radioactive Materials	15
III.18 Industrial, Research Applications and Security Screening	34
III.19 Radon and the Public	32
III.20 Flights and Space	9
TOTAL NUMBER OF ABSTRACTS SUBMITTED TO IRPA 12	1498

Participative Technical Sessions



Special Sessions

• PLENARY SESSIONS:

- Low Dose and Low-dose-rate Radiation Effects and Models (NCRP)
- ICRP – 80TH ANNIVERSARY

• PARALLEL SESSIONS:

- Legal implications of Radiation Protection. International Nuclear Law Association (Round Table)
- Networking in Radiation Protection (Round Table)
- Overview Session. Stakeholder Engagement in practice

S Chairmen's & Rapporteurs' summaries

Concluding Plenary

- Epistemology
 - ✓ Exposures
 - ✓ Effects
- Paradigm
- Practitioners

$S_{(4)}$ Concluding Plenaria

Final Plenary

Conclusions & Recommendations:

"Towards Global Radiation Protection"



20 refreshing courses (1h)

+

3 training seminars (5 h)!

RP of Patients
RP in Nuclear Reactors
RP in NORM industries



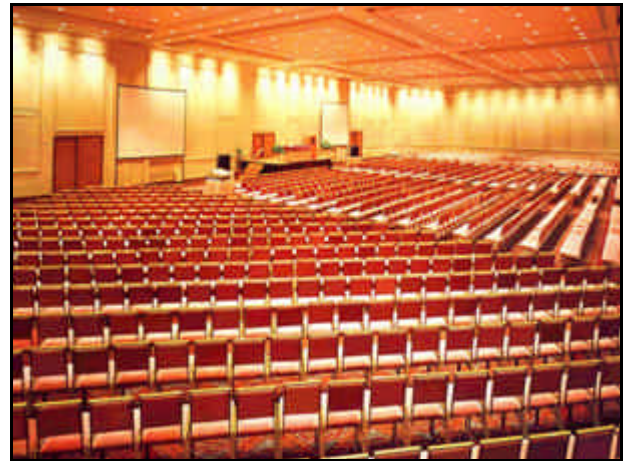
...this time...with accreditation!



"professional enhancement"

Sede del Congreso

**Hotel Sheraton
Buenos Aires**



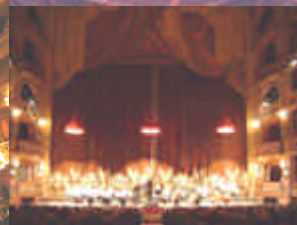
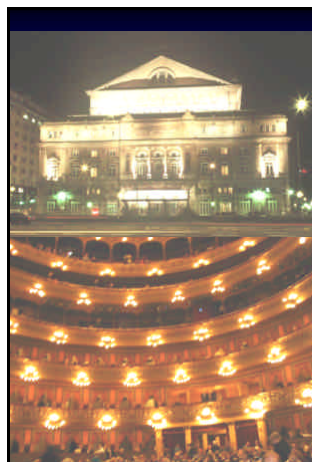
... pero esto no es todo!

Programa Social

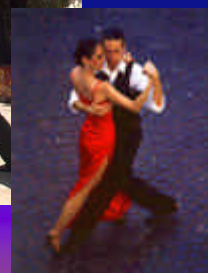
Cada noche ▯ Latin serenade!

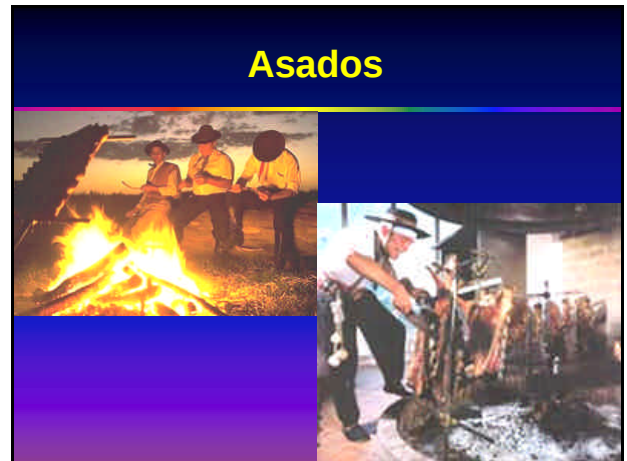


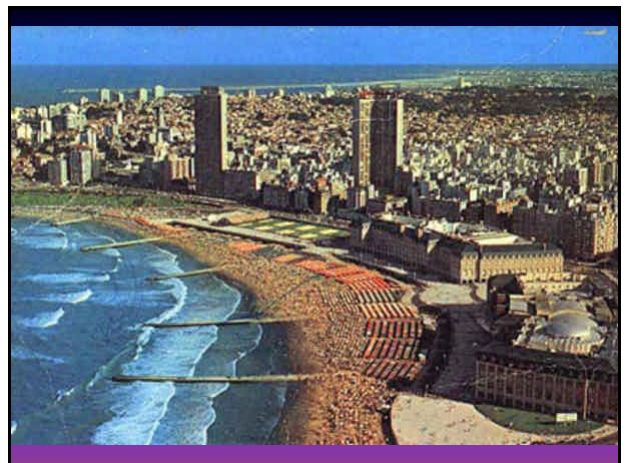
Música & Ópera!



¡Tango!







y ... las montañas...



¡En el cálido Norte!



¡... y en el frío Sur!



