



# **IRPA workshop on reasonableness in the implementation of the ALARA principle**



**23-24 February, 2017**

**Conservatoire National des Arts et  
Métiers (CNAM), Paris**



# Context

The principle of optimisation of radiation protection, also known as ALARA is the cornerstone of the radiological protection system. In practice, its implementation is to search for a given exposure situation, what is the reasonable level of protection taking into account economic and societal factors.

The demonstration that actual exposures are ALARA is in many cases not sufficient, objectified or made visible. In some cases, the use of cost-benefit analysis associated with the use of reference monetary values of person-sievert remains confidential, even if it is in some cases used to guide investment decisions in the nuclear industry.

Rather than trying to develop tools or to adopt numerical values, experience shows that the quest for reasonableness would benefit to be further discussed and shared, both at the national and international levels, with the various stakeholders. In particular, the implementation of the optimisation process should take into consideration more explicitly societal and ethical considerations.

The proposed workshop aims to review the current practices in implementing ALARA and particularly to question the respective roles of decision-aiding techniques and stakeholders in establishing reasonable levels of protection. The aim is also to initiate a reflection on ethical and societal values that underpin the concept of reasonableness.

# Programme

<b>Thursday, 23 February 2017 (Morning)</b>	<b>Time</b>
<ul style="list-style-type: none"> <li>• Welcome and Registration : Salon d'honneur (room 37-1-50)</li> <li>• Welcoming address Thierry Schneider (President of French Society for Radiological Protection)</li> </ul>	<p>08:30 - 09:00</p> <p>09:00 - 09:10</p>
<b>Plenary session (1/3) - Salon d'honneur (room 37-1-50)</b>	
<ul style="list-style-type: none"> <li>• Introduction of the workshop Thierry Schneider (SFRP)</li> <li>• Feedback from IRPA consultation of affiliated societies Roger Coates (IRPA)</li> <li>• Considerations on the concept of reasonableness in the ICRP system and ethical issues Kunwoo Cho (KARP)</li> </ul>	<p>09:10 - 09:30</p> <p>09:30 - 09:50</p> <p>09:50 - 10:10</p>
Discussion	10:10 - 10:30
Coffee break	10:30 - 11:00
<b>Plenary session (2/3) - Salon d'honneur (room 37-1-50)</b>	
<ul style="list-style-type: none"> <li>• Methodologies for the implementation of the ALARA principle: ALARA in practice Fernand Vermeersch &amp; Caroline Schieber (European ALARA Network)</li> <li>• Implementing ALARA in the nuclear sector Bernard Le Guen (SFRP &amp; IRPA)</li> <li>• Implementing ALARA in the medical sector Eliseo Vañó (SEPR)</li> </ul>	<p>11:00 - 11:20</p> <p>11:20 - 11:40</p> <p>11:40 - 12:00</p>
Discussion	12:00 - 12:30
Lunch	12:30 - 13:30

**Reasonableness in the implementation of the ALARA principle**

<b>Thursday, 23 February 2017 (Afternoon)</b>		<b>Time</b>
<b>Plenary session (3/3) - Salon d'honneur (room 37-1-50)</b>		
<ul style="list-style-type: none"> <li>Implementing ALARA in existing exposure situations (radon and legacy sites) Christophe Murith (FS)</li> </ul>		13:30 - 13:50
<ul style="list-style-type: none"> <li>Implementing ALARA in existing exposure situations (post-accidental situation) Michiaki Kai (JHPS)</li> </ul>		13:50 - 14:10
<ul style="list-style-type: none"> <li>Approaches addressing the integration of different risks Pete Bryant (SRP)</li> </ul>		14:10 - 14:30
Discussion		14:30 - 15:00
Coffee break		15:00 - 15:30
<b>Working group session</b>		
<ul style="list-style-type: none"> <li>Working group N°1 on implementing ALARA in the nuclear sector Chair: Eduardo Gallego (SEPR &amp; IRPA) Secretariat: Ludovic Vaillant (SFRP)</li> </ul>		15:30 - 17:00
<ul style="list-style-type: none"> <li>Working group N°2 on implementing ALARA in the medical sector Chair: Marie-Claire Cantone (AIRP &amp; IRPA) Secretariat: Caroline Schieber (SFRP)</li> </ul>		
<ul style="list-style-type: none"> <li>Working group N°3 on implementing ALARA in existing exposure situations Chair: Jean-François Lecomte (SFRP) Secretariat: Sylvain Andresz (SFRP)</li> </ul>		
Visit of the Conservatoire National des Arts et Métiers Museum (optional)		17:30 - 19:00
Dinner (Procope Restaurant)		20:00 - 22:00

<b>Friday, 24 February 2017 (Morning)</b>		<b>Time</b>
<b>Working group session and preparation of the report</b>		
<ul style="list-style-type: none"> <li>Working group N°1 on implementing ALARA in the nuclear sector Chair: Eduardo Gallego (SEPR &amp; IRPA) Secretariat: Ludovic Vaillant (SFRP)</li> </ul>		09:00 – 10:30
<ul style="list-style-type: none"> <li>Working group N°2 on implementing ALARA in the medical sector Chair: Marie-Claire Cantone (AIRP &amp; IRPA) Secretariat: Caroline Schieber (SFRP)</li> </ul>		
<ul style="list-style-type: none"> <li>Working group N°3 on implementing ALARA in existing exposure situations Chair: Jean-François Lecomte (SFRP) Secretariat: Sylvain Andresz (SFRP)</li> </ul>		
Coffee break		10:30 - 11:00
<b>Plenary session- Salon d'honneur (room 37-1-50)</b>		
<ul style="list-style-type: none"> <li>Report of the working groups and general discussion</li> </ul>		11:00 - 13:00
<ul style="list-style-type: none"> <li>Closure of the workshop</li> </ul>		13:00 - 13:15

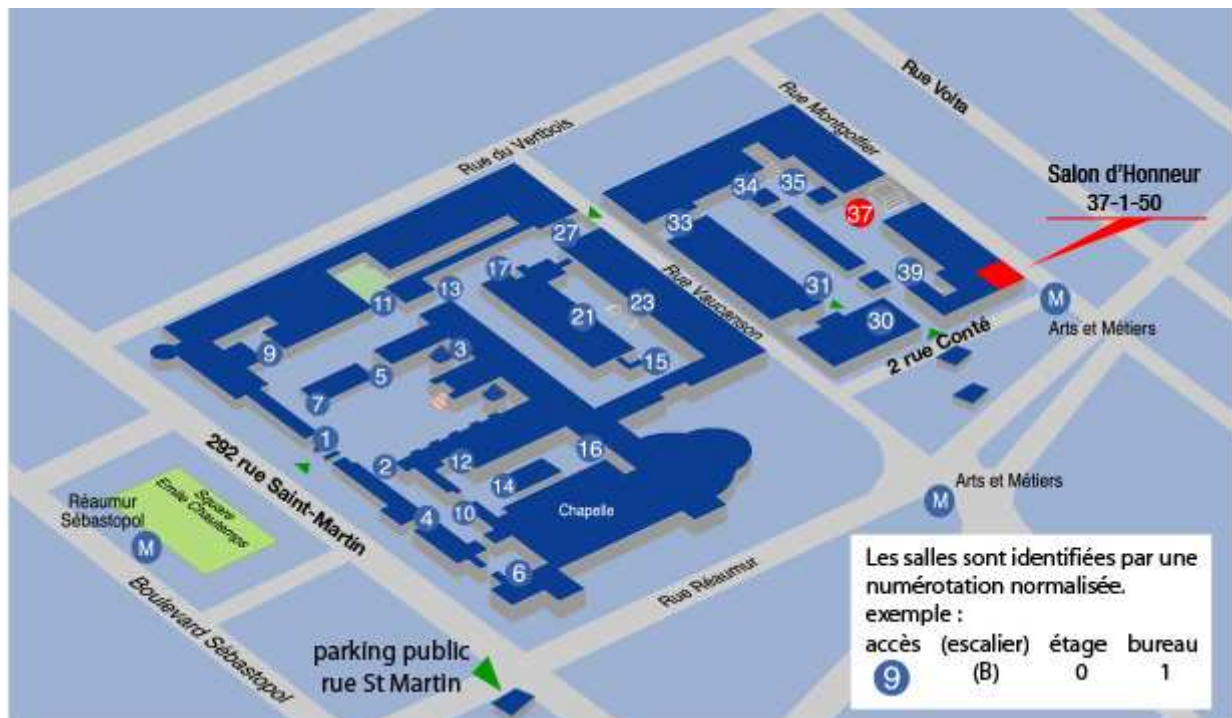


**Programme committee – corresponding members**



- Marie Claire Cantone (AIRP & IRPA – Italy)
- Kunwoo Cho (KARP – Korea)
- Chris Clement (ICRP & IRPA)
- Roger Coates (IRPA)
- John Croft (SRP – UK)
- Eduardo Gallego (SEPR & IRPA – Spain)
- Klaus Henrichs (FS & IRPA – Germany)
- Michiaki Kai (JHPS – Japan)
- Ted Lazo (CRPPH-NEA)
- Bernard Le Guen (SFRP & IRPA - France)
- Jacques Lochard (ICRP)
- Christophe Murith (FS – Switzerland – Germany)
- Thierry Schneider (SFRP – France)
- Fernand Vermeersch (European ALARA Network)

**Organising committee (SFRP-France)**

Thierry Schneider Bernard Le Guen Catherine Luccioni	Jean-François Lecomte Valerie Chambrette
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# Information

<p><b>Location of workshop</b></p>	<p>In the center of Paris:  <b>Le CNAM, 292 rue Saint-Martin, 75003 Paris, France</b>  <b>Metro stations:</b>          - Arts et Métiers (Lines 3 or 11)          - Réaumur Sébastopol (Lines 3 or 4)</p>
<p><b>Hotel</b></p>	<p>SFRP has no recommendation for hotel. However, there are many hotels near the CNAM or the dinner restaurant place.</p>
<p><b>Visit of the CNAM museum (optional)</b></p> <p>Thursday, 23<sup>rd</sup> February          17:30 – 19:00</p>	<div style="display: flex; align-items: flex-start;">  <div style="flex-grow: 1;"> <p>This is your chance to follow in the footsteps of inventors and pioneers of progress and explore a one-of-a-kind repository of scientific and technical knowledge...</p> <p>Founded in 1794 by Henri Grégoire, the Conservatoire national des arts et métiers, "a store of new and useful inventions," is a museum of technological innovation. The Museum was refurbished in 2000, and now exhibits over 2,400 inventions. They are split into seven collections Scientific instruments, Materials, Energy, Mechanics, Construction, Communication and Transport.</p> <p>A guided visit in English is proposed for you.</p> <p><b>This visit is included in the fees.</b>  <b>Possibility for accompanied person (with supplement: 10 €)</b>  <b>The museum is accessible near the workshop location.</b></p> </div> </div>
<p><b>Dinner in PROCOPE restaurant</b></p> <p>Thursday, 23<sup>rd</sup> February          20:00 – 22:00</p>	<div style="display: flex; align-items: flex-start;">  <div style="flex-grow: 1;"> <p>It was in 1686 that Francesco Procopio dei Coltelli, a gentleman from Palermo, set up his coffee house in the rue des Fossés Saint-Germain (present-day rue de l'Ancienne Comédie). The excellent quality of drinks and sorbets, the pleasant setting and the proximity of the Ancienne Comédie Française quickly made his establishment a meeting place for fine wits and intellectuals.</p> <p><b>This dinner is included in the fees.</b>  <b>Possibility for accompanied person (with supplement: 60 €)</b>  <b>Location: 13 rue de l'Ancienne Comédie - 75006 PARIS</b>  <b>Metro station: Odéon (Line 4 or 10)</b></p> </div> </div>
<p><b>Fee</b></p>	<p>100 euros per person</p>
<p><b>Registration</b></p>	<p>Fill accurately the registration form          Payment conditions are specified          Send the form by mail: <a href="mailto:Christine.guerreiro@irsn.fr">Christine.guerreiro@irsn.fr</a>          Deadline for registration: 1<sup>st</sup> February 2017</p>

# Registration Form

The attendance to the workshop is limited to about 50 participants.

To register, please send this form by email to [christine.guerreiro@irsn.fr](mailto:christine.guerreiro@irsn.fr)

NAME	
FIRST NAME	
SOCIETY/ORGANISM	
ADDRESS	
Mail	

Select your workshop group	
Working group N°1 on implementing ALARA in the nuclear sector	
Working group N°2 on implementing ALARA in the medical sector	
Working group N°3 on implementing ALARA in existing exposure situations	

Indicate your options	
Lunch on Thursday 23 <sup>rd</sup> February 2017	
Visit of the CNAM Museum on Thursday 23 <sup>rd</sup> February 2017	
Accompanied person for visit of the CNAM Museum (supplement: 10€) Name:	
Dinner in Procope Restaurant on Thursday 23 <sup>rd</sup> February 2017	
Accompanied person for dinner in Procope Restaurant (supplement: 60€) Name:	
Lunch on Friday 24 <sup>th</sup> February 2017	

Fees	
Registration fees for one participant: it includes coffee breaks, two lunches, museum visit and social dinner	100€
Supplement for accompanied persons	
Total	

Registration will be accepted when a copy of the payment receipt will be sent to SFRP. SFRP will send an invoice for the payment: please indicate invoicing requirements if it is necessary

Invoice Address	
SOCIETY/ORGANISM	
ADDRESS	

## SFRP INTERNATIONAL BANK ACCOUNT NUMBER for payment

IBAN : FR76 3000 4001 4000 0009 9522 961

BIC : BNPAFRPPMAS

**Deadline for registration: 1<sup>st</sup> February 2017**

**Deadline for cancellation: 15<sup>th</sup> February 2017**