



International Atomic Energy Agency

**Consultants' Meeting (CM) on**

**“Total Absorption Gamma-ray Spectroscopy (TAGS)”**

held in collaboration with NEA/OECD

IAEA Headquarters, Vienna, Austria

27 – 28 January 2009

Meeting Room B0485

**AGENDA**

**Tuesday, 27 January**

08:00 – 08:30 Registration (IAEA registration desk, Gate 1)

**1. Introduction**

08:30 – 08:50 Welcome and administrative matters Chairman/Scientific Secretary

08:50 – 09:00 Approval of the Agenda

**2. Background**

WPEC Subgroup 25, and NEA/WPEC-25 report A.L. Nichols/C. Nordborg

09:00 – 12:15 **3. Presentations**

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3.1 TAGS measurements at Jyvaskyla

3.1.1 Analysis of Tc-102,104,105,106,107,  
Mo-105 and Nb-101 measurements D. Jordan

3.1.2 New proposal – Br-87,88, Rb-94,95 and I-137,  
including measurements of delayed neutrons A. Algora

12:15 – 13:30 *Lunch break*

13:30 – 17:00 **3. Presentations (cont'd).**

3.1.3 Overall view of TAGS measurements with emphasis  
on future installations J.L. Tain

See also "Applications of the Total Absorption Technique to  
Reactor Decay Heat Calculations: Study of the Beta Decay  
of <sup>102,104,105</sup>Tc" by A. Algora, et al., presented at 13th Int. Symp.  
Capture Gamma-ray Spectroscopy and Related Topics (CGS-13),  
25 – 29 August 2008, Cologne, Germany.

3.2 TAGS facilities at Argonne National Laboratory F.G. Kondev  
Immediate- and longer-term plans

See also “Decay Studies of Minor Actinide Nuclides, and Future  
Opportunities for Improving the Decay Data of Neutron-rich  
Fission Products” by F.G. Kondev, et al., presented at Int. Conf.  
Reactor Physics, Nuclear Power: a Sustainable Resource,  
PHYSOR-2008, 14 – 19 September 2008, Interlaken, Switzerland.

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|----------------------------------------------------------------------------------------------------|-----------------------|
| 3.3 TAGS and related measurements in India<br>Immediate- and longer-term plans                     | G. Mukherjee          |
| 3.4 Antineutrino and safeguards – applied reactor physics<br>Decay heat of different reactor types | L. Giot/<br>M. Fallot |

4. **Discussions**

- 4.1 Additional discussion concerning all of item 3 above

19:00 *Social Event*

**Wednesday, 28 January**

- 09:00\*\* 4. **Discussions** (cont'd).
- 4.2 Future issues:
- Any other radionuclides need to be TAGged (apart from those listed in Table 3 of NEA/WPEC-25)?
- Decay heat and other applications requiring such highly specific measurements?
- ALTO IPN-Orsay – current plans and status?
- One active group, and two developing groups - consideration of the following:
- problems/difficulties?
  - proposals for measurements?
  - timetables?
  - how is everyone's work best integrated and made complementary?
  - short- and long-term thoughts,
  - other issues?

5. **Recommendations and Actions**

6. **Any other business**

\*\* *Break for Coffee and Administrative matters as appropriate*