



Technical Meeting on
**Fission Yields: current status and perspectives in measurements,
theory and evaluations**

IAEA, Vienna, Austria
23 – 26 May 2016
Meeting Room VIC C0225 A

AGENDA

Monday, 23 May

08:30 – 09:30 Registration (IAEA Registration Desk, Gate 1)

09:30 – 10:00 Opening Session

Welcoming address (Arjan Koning, NDS Section Head)
Goals of the meeting (P. (Vivian) Dimitriou, Scientific Secretary)
Administrative matters
Election of Chairman and Rapporteur
Adoption of the Agenda

10:00 – 18:00 Presentations by participants (40 min each)

- 1) *Dynamical approach for low-energy nuclear fission by Langevin equation and results from the surrogate reaction*, S. Chiba, Tokyo Inst. of Technology
- 2) *General description of fission observables: the GEF code*, K-H. Schmidt, CENBG
- 3) *Validating nuclear fission codes*, A. Mattera, Univ. Uppsala
-----Lunch Break-----
- 4) *Fission Yield Activities at the CEA-Cadarache (France)*, O. Serot, CEA-Cadarache
- 5) *A Bayesian Monte Carlo method for fission yield covariance information*, D. Rochman, PSI
- 6) *Fission Product Yields and Related Covariance Data*, M. Pigni, ORNL
- 7) *UKAEA work in fission yields and decay data*, M. Fleming, UKAEA
- 8) *Fission Yields Relevant to the Calculation of Antineutrino Spectra*, A. Sonzogni, BNL
- 9) *Semi-empirical study on the yield mass distribution for the $n+^{238}\text{U}$ fission*, N-C. Shu, CNDC

12:00 – 13:30 Lunch break

1 Coffee break in afternoon session

Tuesday, 24 May

09:00 – 18:00

Presentations by participants (cont'd - 40 min each)

- 10) *Energy Dependence of Fission Product Yields from ^{235}U , ^{238}U and ^{239}Pu for Incident Energies between 0.5 and 15 MeV*,
W. Tornow, Duke Univ.-TUNL
- 11) *Neutron-induced fission studies at IGISOL – current status of measurements of independent fission yields*, M. Lantz, Univ. Uppsala
- 12) *Studies on Fission with Aladin*, J. Taieb, CEA-Arpajon
- 13) *Cumulative yields of Br, Kr, Ru, and I isotopes from fission of $^{233,235,238}\text{U}$ and ^{239}Pu by neutrons in the energy range from thermal to 5 MeV*, V. Piksaikin, IPPE
- Lunch Break-----
- 14) *Fission Research by Uppsala and IRMM*, A. Al-Adili, Univ. Uppsala
- 15) *Correlations of fission yields with prompt neutron emission*,
F.-J. Hambsch, EC-IRMM
- 16) *Measurements and calculations of fission product yields at LANL*,
F. Tovesson, LANL
- 17) *The fission yields measurements activities in China*, S. Liu, CNDC
- 18) *Decay Data Needs for Improvement of Fission Yields & Capabilities at ANL*, F. Kondev, ANL
- 19) *Fission Product Yields needs for beta-delayed neutron applications*, P. Dimitriou, IAEA (if time permits)

12:00 – 13:30 Lunch break

Coffee break(s) as needed

19:00 Dinner at a restaurant (see separate information in folder)

Wednesday, 25 May

09:00 – 18:00

Round Table Discussion: tentative

- Short-term/Long-term needs for:
 - o Measurements – repeat measurements to provide experimental covariances
 - o Theory, Codes
 - o Evaluation
 - o Covariances – necessity of evaluated covariances
- Validation calculations: decay heat, anti-neutrino, beta-delayed neutrons: test impact of FY and covariances
- Emphasis on burn-up indicators
- How to proceed? (WPEC/SG-37 status; future project, coordination etc)

12:00 – 13:30 Lunch break

Coffee break(s) as needed

Thursday, 26 May

09:00 – 13:00

Round Table cont'd - Drafting of the Summary Report

Closing of the Meeting

Coffee break as needed