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## Europe & Metrology in Turkey, (EMIT) workshop: Source preparation and Instrument efficiency calibration in liquid scintillation counting

**Leaflet**  
Event code: EMIT So3-10

**TAEK - SANAEM**  
Ankara, Turkey  
6 – 8 June, 2011



### Robust science for policy making

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## EMIT workshop So3-10: Source preparation and instrument efficiency calibration in liquid scintillation counting

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### Aim

The aim of the workshop is to introduce the participants to the topics of source preparation and instrument efficiency calibration for liquid scintillation counting. The focus will be on quantitative source preparation, the CIEMAT/NIST efficiency tracing method for calibration and the establishment of quench curves. The topics will be clarified with appropriate examples and the hands-on involvement of the participants.

### Who should attend?

Researchers from TAEK institutes interested in liquid scintillation counting.

### Language

The workshop will be held in English.

### Practical information

#### *Important dates*

16 May 2011: Announcement of programme on the EMIT website: <http://www.irmm.jrc.ec.europa/Turkey>

6-8 June 2011: Workshop

*Registration* is open to TAEK staff.

*Registration fee:* Participation is free. Refreshments and lunches will be served.

For registration and supplementary information requests, please send an e-mail to:

[JRC-IRMM-TURKEY-METROLOGY@ec.europa.eu](mailto:JRC-IRMM-TURKEY-METROLOGY@ec.europa.eu)

### Topics tackled during the workshop

- liquid scintillation counting - mechanism and instrumentation.
- source preparation for LSC - cocktail selection, quantitative source preparation, use of analytical balances, calibration, substitution method.
- LSC efficiency calibration.
- CIEMAT/NIST efficiency tracing method - theory, calculations, practice.
- dual label measurements.
- uncertainty budget.
- examples and practical exercises.