

RID – Technische Universiteit Delft



ACCESS Activity presentation
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RID highlights

- SESANS – small angle scattering in real space, structures from 50 nm to 15 μm .
- Intense Positron source ($3 \times 10^8 \text{ s}^{-1}$) with 2D-ACAR, lifetime and Doppler broadening measurement facilities
- Neutron activation analysis with capacity for large numbers of small samples ($10^4/\text{y}$ @ $\pm 100 \text{ mg}$) and small numbers of large samples ($50/\text{y}$ @ $< 15 \text{ kg}$)
- Neutron (de)polarization and neutron spin manipulation equipment for applied research as well as instrument development purposes

Strategy for the future

- We are aiming for a cold neutron source (OYSTER project) resulting in a 100 x increase of useful neutron flux at a number of our instruments
- We have plans for innovative new instruments (NDF, SNM, CNIF)
- We aim to contribute more innovative instruments to ISIS, ESS, etc.
- There are possibilities to reinforce the strength of all NMI3 partners through a common strategy.
- A topical focus makes sense with respect to specialized instrumentation, not with respect to research area.

Our place in Europe: The Netherlands

- During FP6, we started Transnational Access, after Studsvik closed, early in 2006. Ten user projects were accommodated, no beam days left over.
- Only a few papers have appeared so far as a result of Transnational Access in the past. In most cases, the researchers are still processing the results.
- Common user data management would be useful for equivalent instruments.
- Neutron & Muon community management – PR to propagate the use of neutrons, positrons and muons is always needed. Coordination with ENSA and ISMS will be necessary.