

Work package (number / title)

WP3 - Training neutron scattering - from proposal to publication: E-learning and schools

Work package leader : Linda Udby (LU)

Venue : Coimbra

Date : September 7th 2016

Agenda : Welcome (LU)

- Progress on e-neutrons.org (JG)
- Progress on e-learning muons (PB)
- Progress on Introductory Schools (RB for LA)
- Progress on Advanced Schools (AM)
- Summary of meeting for minutes + Photo&signature of all participants (LU)

List of participants (attached seperately)

(evtl **Photo**)



Collect all power point presentations and make them available on the intranet
(contact info@sine2020.eu)



Detailed points incl discussion and outcome

E-neutrons launch and stats (LU)

D3.1 postponed to M30 since we need the registered users to be more active first in order to evaluate various assessment methods.

One idea could be to engage the schools in using e-neutrons as supplement to on-site teaching. Maybe require this for funding of schools.

Progress on e-neutrons.org (JG)

Walk-through of e-neutrons.org website, courses, quizzes and simulation exercises, by Jakob Garde

- New 3D visualisation tool of simulated rays
- the courses produced by the e-neutrons team can be copied and edited by teachers to suit their own needs. The copies will be hosted and administered by TUM.
- New upload tool for McStas instruments, can be used by all authorised teachers

Progress on e-learning muons (PB)

Walk-through of muon spin spectroscopy by Peter Baker

- Building and upload contents to e-neutrons.org
 - scope is undergrads in science (but not necessarily physics)
 - some nice interactive maps made in java script. Also used in drag&drop for quizzes.
- Use online course material as preparation for to ISIS 2016 muon training school– very worthwhile !
 - The training school 2014 included a 3h session on how to use Mantid for muons. Took workbook by Mark Telling and converted into online learning course.
 - In contrast to 2014 after doing the exercises online the students were able to use the software at the beamline
 - Numerical errors in quizzes pose problems though
 - Feedback as videos is great help for students
 - next + previous page at bottom of modules made in html but probably also exists as moodle plugin



Minutes of Meeting

- Upload videos from the muon training school afterwards
 - postprocessing needed and slow. Videos already being used by students who didn't attend the school.
- e-learning feedback from 2016
 - generally very positive, students found it useful.
 - Enabling all the students to finish the book. Enhancing the level of competence !
 - Saving money by having students work off-site

Progress on Introductory Schools (LA/RB)

- we launched the first call for the Intro Schools in January 2016 for the period 2016-2017
- 11 proposals arrived
- a Committee of experts formed by 10 members was set, they evaluated the proposals
- 8 proposals were financed, all of them good ones, however a ranking could be set between them. Those not-financed were considered special/advanced schools by the Committee
- 3 schools (Hercules, Berlin, CETS Budapest) for 2016 were already closed, the evaluation of the financial reports is under process
- we plan to launch a second call for period 2018-2019 in the second half of 2017
- D 3.2 Report on 1st year introductory schools - Done

Progress on Advanced Schools (AM)

- Sylvain Petit will help A. Menelle in the organization
- A call will be issued end of September for results given mid December
- Similar procedure than for introductory schools, submission forms and evaluation forms will be adapted
- Same expert panel than for introductory schools
- All specialized schools organized within the SINE2020 contract (before October 2019) can apply
- We anticipate a yearly call and not only 2 calls in the contract as originally proposed (next calls : end of 2017, end of 2018))



Minutes of Meeting

Decisions taken

Postpone D 3.1 to M30

Postpone D 3.7 to M36

Make annual calls in specialised schools instead of bi-annual

Tasks / responsables

Task # / Sub task #	Responsible person / entity
Task 3.1: Development of e-learning platform - Coordination&management (LU) - Platform development (PW&JG) - Student assessment & evaluation (LU&JH -> D 3.1) - Evaluation/production of learning material (LU&JH) - Formatting/implementing learning material (LU&JH) - muon e-learning	
Task 3.2: Development of virtual neutron facility and training material - virtual ESS instruments (CEA & DTU) - corresponding training material (UCPH, DTU) - implementation online and blended (UCPH, DTU)	
Task 3.3: Enhancing coordination for Pan-European neutron training Schools a) Introductory schools MTA-EK (LA & RB) b) Specialised schools CEA (AM)	

Deliverables (due in this period)

Deliverable #	Status
D3.1 - Due M12 Investigation of elearning tools wrt student performance and assessment - Report	Delayed to M30 due to maternity leave of LU and JH
D3.2 - Due M12 Report on introductory schools, year 1	
D3.3 - Due M24 Prospects of e-learning muon spin rotation	