

Detector group participation in
IKON13
(The thirteenth In-kind contributions meeting for Neutron Science
for ESS)

Richard Hall-Wilton
Vendula Maulerova

Time agenda

Tuesday		Wednesday			Thursday		Friday	
Lunch sandwich and welcome coffee		Welcome coffee 08:30 - 09:00 Medicon Village			Welcome coffee Medicon Village 08:30 - 08:50		Welcome coffee Medicon Village 08:30 - 09:00	
12:30 - 13:30 Auditorium, Medicon Village		Plenary Session 2			Plenary Session 3		Preparation meetings for the feedback session Ken Andersen	Free hour for ad-hoc meetings
Plenary session 1		09:00 - 10:30 Auditorium, Medicon Village			08:50 - 10:00 Medicon Village		Tankartanken, ESS Headquarter 09:00 - 10:00	ESS Headquarter and Medicon Village 09:00 - 10:00
13:30 - 15:30 Auditorium, Medicon Village		Free hour for ad-hoc meetings			Free hour for ad-hoc meetings		Plenary session 4	
Free hour for ad-hoc meetings		10:30 - 11:30 Medicon Village			10:00 - 12:00 Medicon Village		Auditorium, Medicon Village 10:00 - 12:00	
15:30 - 16:30 ESS Headquarter		Beam Monitors Fatima Issa	Remote handling Erik Nilsson	PSS Stuart Birch	10:00 - 12:00 Medicon Village		Lunch sandwich	
Grounding and Electrical Distribution Mr. Thomas Gahl		ESS Headquarters Stora Tuna,	ESS Headquarters Christinehof,	ESS Headquarters Tänkartanken,	Lunch		Auditorium, Medicon Village 12:00 - 13:00	
Instrument Class Meetings Ken Andersen		Lunch			12:00 - 13:00 Medicon Village		Detector and Event Formation Richard Hall-Wilton, Tobias Ri...	
16:30 - 18:00 Tänkartanken, ESS Headquarters		Update on Conventional Facilities: Experimental Halls, Workshops and Laboratories Arno Hlless	Standards & Quality Gabor Laszlo	Neutronics - Long Instruments Dr. Phillip Bentley	Integrated Schedule and Prioritization: First 8 Instruments Dr. Shane Kennedy,...	Guide alignment Fabien Rey	Detector and Event Formation Richard Hall-Wilt...	
Drinks and fingerfood reception		Venus, Medicon Village 13:30 - 15:00	ESS Headquarters Stora Tuna,	Tänkartanken,	Stora Tuna, ESS Headquarter	Christinehof, ESS Headquarters	Tänkartanken, ESS Headquarters	
18:00 - 20:00 Ljusgården, ESS Headquarter		Coffee break 15:00 - 15:30 ESS Headquarter			Coffee break 14:30 - 15:00 ESS Headquarter and Medicon Village		Detector and Event Formation Richard Hall-Wilton,...	
		Light shutter/Bunker/Heavy shutter/Bunker insert Zvonko Lazic, Gabor ...	Infrastructure on the instruments for sample environment equipment Arno Hlless	Neutronics - Short Instrument Dr. Phillip Bentley	Integrated Schedule and Prioritization: Instruments 9-11 Mrs. Sofie Ossowski...	Detector and Event Formation Richard Hall-Wilton,...		Light-Bunker installation Gavin Sutton
		Stora Tuna, ESS Headquarters	Venus, Medicon Village 15:30 - 17:00	Tänkartanken, ESS Headquarter	Stora Tuna, ESS Headquarters	Tänkartanken, ESS Headquarter	ESS Headquarters Christinehof,	
		Visit Uggård and Embla 17:00 - 18:30 Uggård and other labs			Site Visit ESS site 16:30 - 18:30 IKOH13 Dinner 19:00 - 21:30 Grand Hotel, Lund			
		Free evening 18:30 - 22:30						

Visits to Utgard and EMBLA



Utgard

Boron layers multi-wire chamber (Irina Stefanescu)

- Generic detector testing
- Demonstration of the home-designed readout electronics that is currently being tested in a small 10B-based test detector.

Multi-Blade (Francesco Piscitelli)

- Open MB15 and A3 picture of MB16 (which is being tested at ISIS).
- Plexi-glass showing two blades.
- Development of parts for the data acquisition for the MB detectors.
- Amplifiers testing setup.

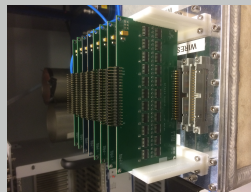


Figure 1: Figure caption

- Screen showing data flow.

Multi-Grid (Anton Khaplanov)

- Demonstration of the MG.CNCS operating (2016)
- Presentation available with results from CNCS (2016-2017)
- Open MG.24 (2016-2017) - Demonstration of grids modules for MG.24

Beam Monitors (Fatima Issa)

- Beam monitors display (ORDELA, LND, ISIS, MIRROTRON, CDT)
- Results of the irradiation on a poster and a screen..

SoNDe(Ramsey Al Jebali)

- 3D print of the 2x2 prototype
- Real 2x Multi-anode Photomultipliers.
- Joint display: MaPMT-ROSMAP-MP connected to DMSC event formation.

ICS Instrument Controls (David Brodrick)

- EPICS control (David)
- Experiment control (Jon Taylor/ or someone else)
- DG ESSiIP Demonstrator hardware (Steven Alcock)
 - DG ESSiIP Demonstrator: He3 tube through to DMSC.
 - Data generator that exercises a high speed (100G) link to the DMSC (EF unit).
- DMSC event processing (Tobias)

EMBLA

3D printed pieces (Isaak Lopez-Higuera)

- SoNDe related:
 - Model of multi anode PMT (MAPMT) for SoNDe project. (several iterations)
 - Model of MAPMT readout board
 - Holder for 2x2 array of MAPMT's (several iterations)
 - Model of light tight container box for 2x2 MAPMT array
 - Display stands for 2x2 MAPMT array
- Multi-Blade related:
 - Holders for several different sized PCB's (several copies has been printed)
 - Model of Converter blade
 - Model of Converter blade holder
 - PCB holder brackets
- Multi-Grid related:
 - Scale model of one grid segment
 - End Grids (2x)
- Jalousie related:
 - Scale model of entire detector and section of beam line
 - Scale model of one of the cathode/anode blade assemblies

Grid assembly of the Multi-Grid detector

- Grid assembly set-up demonstration.
- Completed grids and how they are put together in the module.

CAD office, electronics integration space (Scott/Nicholai)

- A large EMC test enclosure will be set up in it next year.

Manufactured items (Scott Kolya and Nicholai Mauritzson)

- Demonstrate parts of the ESSiIP instrument Integration project.