

## FRM4SOC LCE-1 Participant's Schedule

### Day 1 (Monday 03/04/2017)

The morning's activities are concerned with NPL induction and introductions, including health and safety as well as finding your way around briefings. The afternoon's activities are concerned with measurement training.

Time	Activity	Responsible Person
09:00	Arrive at security gate; you will be directed to Reception where you will hand over FEL lamps to members of the FRM4SOC NPL team; and then be collected by a member of the HR team for the NPL Induction in meeting room F4-LS1 (the FRM4SOC LCE-1 participants HQ for the week)	HR Team David Hemfrey Agnieszka Bialek & Will Servantes
09:30	Pass Induction in F4-LS1	HR Team
10:00	Break	
10:30	Welcome and Introduction to FRM4SOC Introduction to LCE-1	Andrew Banks Agnieszka Bialek
12:00	Lunch	See below

### Lunch

A table for FRM4SOC LCE-1 participants is reserved in the NPL canteen (cash and card accepted). Andrew Banks/Agnieszka Bialek will accompany participants.

Time	Activity	Responsible Person
13:30	FEL lamp setup demo on the 8m bench	Barry Scott, Agnieszka Bialek & Claire Greenwell
15:30	Break	
	Hands on demonstration of irradiance mode on the 8m bench	Barry Scott, Agnieszka Bialek & Claire Greenwell
	Inverse square law, sensitivity to the position, current stability briefing	Barry Scott
17:00	Collection of belongings from F4-LS1 and end of day 1	Andrew Banks/David Hemfrey
18:00 (TBC)	Ice breaker drink @The Kings Head, Teddington	Andrew Banks

## Day 2 (Tuesday 04/04/2017)

The morning and afternoon activities are concerned with theoretical metrology training and a chance for consultations with members of the NPL staff.

Time	Activity	Responsible Person
09:00	Arrive at NPL; Pass Security; Gather in F4-LS1 for informal discussions	Andrew Banks/Agnieszka Bialek/David Hemfrey
10:00	Lecture in F4-LS1: Introduction to Metrology and the Law of Propagation of Uncertainty	Emma Woolliams
12:00	Lunch	See below

### Lunch

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Time	Activity	Responsible Person
13:30	Lecture in F4-LS1: Steps to an Uncertainty Budget	Emma Woolliams
14:30	Lecture in F4-LS1: The Measurement Equation	Agnieszka Bialek
15:15	Break	
15:30	Lecture in F4-LS1: Comparisons	Teresa Goodman
16:30	Informal consultations on FEL lamps / irradiance measurements	Will Servantes & Teresa Goodman
17:30	Collection of belongings from F4-LS1 and end of day 2	Andrew Banks/David Hemfrey



## Day 3 (Wednesday 05/04/2017)

The morning's activities are concerned with theoretical metrology training and practical work in the lab. The afternoon's activities are a training workshop on completing your own uncertainty budget.

Time	Activity	Responsible Person
09:00	Arrive at NPL; Pass Security; Gather in F4-LS1 for informal discussions	Andrew Banks/Agnieszka Bialek/David Hemfrey
09:30	Lecture in F4-LS1: Radiance calibration	Agnieszka Bialek
10:15	Break	
10:30	Hands on demonstration of radiance mode on the 8m bench  Uniformity of the panel, alignment etc.	Barry Scott, Agnieszka Bialek, & Claire Greenwell
12:30	Lunch	See below

### Lunch

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Time	Activity	Responsible Person
14:00	Workshop format / discussion in F4-LS1 on:  Preparing participants uncertainty budget: <ul style="list-style-type: none"> <li>Filling out uncertainty templates</li> <li>Thinking through how to test real uncertainties back at their home labs</li> </ul>	Agnieszka Bialek
15:30	Break	
15:30	Workshop format / discussion in F4-LS1 on:  Preparing participants uncertainty budget: <ul style="list-style-type: none"> <li>Filling out uncertainty templates</li> <li>Thinking through how to test real uncertainties back at their home labs</li> </ul>	Agnieszka Bialek
17:00	Collection of belongings from F4-LS1 and end of day 3	Andrew Banks/David Hemfrey
18:30 (TBC)	FRM4SOC LCE-1 Participant's Dinner @The Railway, Teddington	Andrew Banks



## Day 4 (Thursday 06/04/2017)

The morning and afternoon's activities are a chance to meet others at NPL and visit the other areas of metrological research being undertaken here. When this is not going on participants can work further on completing their own uncertainty budget as a follow-on from the previous days training.

Time	Activity	Responsible Person
09:00	Arrive at NPL; Pass Security; Gather in F4-LS1 for informal discussions	Andrew Banks/Agnieszka Bialek/David Hemfrey
09:15	Visit to Bushy House – scientific and historical museums, Newton's apple tree	Andrew Banks/David Hemfrey
10:30	Break	
10:45	Meeting others at NPL / other lab tours (possible atomic clock or temperature group tour)  (and/or) continued uncertainty budget template work	Andrew Banks/David Hemfrey  Agnieszka Bialek
12:30	Lunch	See below

### Lunch

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Time	Activity	Responsible Person
14:00	ECO Internal Lecture in F16 CS7:  NPL support to the radiometric characterisation of RailRoad Valley Playa calibration site	Tracy Scanlon/Claire Greenwell
15:30	Break	
16:00	Biometric lab tours with PGI (meet at 16:05 at PGI common room G14)  (and/or) continued uncertainty budget template work  Repacking first set of participants' FEL lamps	Andrew Banks/David Hemfrey  Agnieszka Bialek  Will Servantes
17:00	Collection of belongings from F4-LS1 and end of day 4	Andrew Banks/David Hemfrey



## Day 5 (Friday 06/04/2017)

The final morning's activities are a chance to tour the Earth Observation, Climate and Optical group's facilities used in FRM4SOC. The afternoon is an informal period when participants can collect their FEL lamps, arrange any other business and bid NPL and FRM4SOC LCE-1 goodbye.

Time	Activity	Responsible Person
09:00	Arrive at NPL; Pass Security; Gather in F4-LS1 for informal discussions	Andrew Banks/Agnieszka Bialek/David Hemfrey
09:30	Repacking second set of participants' FEL lamps  NPL Earth Observation, Climate and Optical's lab tours in groups of 4 or 5  SRIPS tour NRR tour Cryogenic radiometer tour	Will Servantes  Will Servantes Teresa Goodman Florian Graber
10:30	Break	
10:30	NPL Earth Observation, Climate and Optical's lab tours in groups of 4 or 5 (cont'd)  SRIPS tour NRR tour Cryogenic radiometer tour  Final round table discussion and completion of feedback forms	Will Servantes Teresa Goodman Florian Graber  Andrew Banks, Agnieszka Bialek, Teresa Goodman, Claire Greenwell, & Barry Scott
12:30	Lunch	See below

### Lunch

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Time	Activity	Responsible Person
14:00-17:30	Collection of FEL lamps  Farewell, travel arrangements and collection of belongings from F4-LS1	Will Servantes  Andrew Banks/Agnieszka Bialek/David Hemfrey