

# Data Analysis Developer's Workshop (DAWN centric)

## Proposed Agenda

5<sup>th</sup> June and 6<sup>th</sup> June 2014, Diamond G59

Thursday 5 <sup>th</sup> June 2014		
Time	Item	Presenter / lead developer
<b>Session 1: Eclipse Working Group and Projects</b>		
09:00	Welcome to workshop – outline of plan for meeting	Matt Gerring
09:15	Introduction of Science Working Group to new developers. (Current members, future membership, current projects, governance/steering etc.)	Andrew Ross
09:45	Review of eclipse projects part of working group, including code. For instance DAWN, NICE, VERVE etc ? What will we be starting with? What package changes are necessary? Licensing in DAWN (report from Matt Gerring on working with eclipse foundation on licensing).	(chair) Matt Webber  (short presentation) Matt Gerring
10:30	<b>Break</b>	
11:00	Review of needs on code sharing – what can we share on? Is it still data and plotting – what of the emerging projects can we reuse at Diamond?	(chair) Philip Wenig [OpenChrom and ChemClipse]
12:00	<b>Lunch</b> (STFC restaurant – we will not all sit together. Visitors will receive meal voucher.)	
<b>Session 2: Science Division Talk</b>		
13:00	Series of short talks (~15mins) to science division of some practical and interesting features of eclipse projects used for science.	Philip Wenig, Jonathan Alvarsson, Matthew Gerring, Torkild Resheim
<b>Session 3: Tour of Synchrotron</b>		
13:45	Tour around synchrotron building (it is shutdown and will be possible to see inside machine)	2 groups
<b>Session 4: Technical Presentation of External Projects</b> [Presentations including some background of project, current capabilities, future developments planned and possible areas of generic reuse]		
15:00	SSI and DAWN (software.ac.uk)	Steve Crouch
15:30	ChemClipse	Philip Wenig and Andreas Klingberg
16:00	Bioclipse	Jonathan Alvarsson
16:30	Diamond Eclipse Projects	(GDA, DAWN, CSS)
17:00	Itama Projects	Torkild Resheim
17:30	Passerelle	Erwin De Lay
19:00 <b>DAWN Workshop Dinner – A curry in Didcot.</b>		

**Friday 6<sup>th</sup> June 2014****Session 5: Review of New Features in DAWN 1.5**

[Presentations including some background to external visitors. Observations from external visitors welcome.]

09:00	Welcome to second day, review of schedule	Matt Gerring
09:15	Powder Diffraction ( 25 mins) Usage collection and statistics (10 mins) Function tool (10 mins) Tomography reconstruction (15 mins) dViewer(15 mins)	Jake Filik Baha El Kassaby Tracy Miranda Mark Basham Gabor Naray
10:30	<b>Break</b>	
11:00	ISPyB User Interface ( 25 mins) NCD Update, including algorithm changes (25 mins) Cluster Node Project ( 15 mins)	Matt Gerring Irakli Sikharulidze Erwin De Lay
12:05	<b>Lunch</b>	
<b>Session 6: Future Features</b>		
13:30	Brainstorm of new features for DAWN <ul style="list-style-type: none"><li>• Features from recent focus days (I16 etc.)</li><li>• Top features which users ask for</li><li>• How can we make life easier for users?</li><li>• Other beamline requirements</li></ul>	Alun Ashton
14:00	Workflow Session Review of new features, discussion of planned features – graphiti, Ptolemy upgrade(?), new actors, error reporting, how to reuse workflows in eclipse projects, other business. Feedback from Soleil Meeting	Olof Svensson
14:30	Review of 3D technologies, javafx, VisIt, JOGL, others. Surface plotting, Iso-surfaces, - others Advice from external participants	Mark Basham/Matt Gerring
15:00	Review of command server proposed feature using JMS	Matt Gerring
15:30	<b>Break and taxis for early leavers</b>	
<b>Session 7: DAWN Code Camp</b>		
16:00 until close	Code Camp for those staying longer. For instance using dawn eclipse projects to plot things and describe data.	Matt Gerring