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**LCLS-II Facility Advisory Committee Meeting**

July 19-21, 2016

**Tuesday, July 19th Location: Kavli Auditorium, Bldg 51**

***Time Topic Presenter***

8:00 Executive Session Committee

8:15 Welcome C.C.Kao

8:30 LCLS-II Project Status J. Galayda

9:00 Physics Design P. Emma

9:30 Technical Status Overview D. Schultz

10:00 X-ray Parameters and Experimenter Input W. Schlotter

***10:30 Break***

11:00 Breakout Sessions ***Convener***

Breakout 1: Accelerator Systems P. Emma/J. Chan

Breakout 2: Cryogenic Systems M. Ross

Breakout 3: Photon Systems M. Rowen

Breakout 4: Controls B. Dalesio

Breakout 5: Infrastructure C. Rodrigues

Breakout 6: ES&H I. Evans

***12:30 Lunch (Kavli Lobby)***

1:30 Breakout Sessions (cont)

5:00 Executive Session Committee, Kavli Auditorium, Bldg 51

6:30 Dinner at SLAC Committee/Speakers, Bldg 52 Lobby

**Wednesday, July 20th**

***Time Topic***

8:00 Executive Session Committee, Kavli Auditorium, Bldg 51

8:30 Breakout Sessions (cont)

***12:00 Lunch (Kavli Lobby)***

1:00 Breakout Sessions (cont)

3:00 Executive Session Committee, Kavli Auditorium, Bldg 51

**Thursday, July 21st**

***Time Topic***

8:00 Executive Session Committee, Kavli Auditorium, Bldg 51

8:30 Breakout Sessions (needed?)

***12:00 Lunch (boxed – Kavli Lobby)***

1:00 Executive Session

3:00 Closeout Location: Kavli Auditorium, Bldg 51

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**Breakout Session 1 – Accelerator Systems Conveners: P. Emma/J. Chan**

***Time Topic Presenter*** ***Location***

Tuesday, July 19th Trinity

11:00 Accelerator System Overview and Status J. Chan (Bldg 53, Rm 1350)

11:30 Accelerator Tracking and Optimization C. Mitchell

12:00 Accelerator Tune-Up Simulations M. Guetg

***12:30 Lunch*** Kavli Lobby (Bldg 51)

1:30 APEX results F. Sannibale

2:00 Injector and Laser Systems F. Zhou

2:30 Spreader Kicker Test Results T. Beukers

3:00 Electron Diagnostics J. Frisch

***3:30 Break***

4:00 Beam Losses and Containment J. Welch

4:30 Radiation Protection M. Santana

5:00 Executive Session

Wednesday, July 20th Trinity

8:30 Particle Free/ UHV Process Plans D. Gill (Bldg 53, Rm 1350)

9:00 Installation, Coordination & Plans K. Ratcliffe

9:30 Cryomodules Installation Plans R. Coy

*10:00**Dump Designs* A. Ibrahimov

**10:30** ***Break***

11:00 Undulator Performance and Tolerances H.-D. Nuhn

11:30 FEL Performance in Various Configurations G. Marcus

***12:00 Lunch*** Kavli Lobby (Bldg 51)

1:00 RF Systems C. Adolphsen

1:30 Commissioning Schedule J. Schmerge

2:00 X-Ray Diagnostics and SXRSS Design Y. Feng

2:30 Open Session

3:00 Executive Session

Thursday, July 21st Madrone

8:30 (Bldg 48, Rm 224)

9:00

9:30 Discussion

***10:00 Break***

10:30

11:00

11:30 Discussion and questions

***12:00 Lunch (boxed)*** Kavli Lobby (Bldg 51)

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**Breakout Session 2 – Cryogenic Systems Convener: M. Ross**

***Time Topic Presenter*** ***Location***

Tuesday, July 19th Berryessa

11:00 Cryo Systems Overview and Status M. Ross (Bldg 53, Rm 2002)

11:30 FNAL Prototype CM and Production Readiness C. Ginsburg

12:00 JLab Prototype CM and Production Readiness E. Daly

***12:30 Lunch*** Kavli Lobby (Bldg 51)

1:30 Prototype Cryomodule Testing Plan E. Harms

2:00 Cryomodule Acceptance Requirements A. Burrill

2:30 Cavity Production: Process and QA/QC F. Marhauser

3:00 Magnetic Flux Expulsion from Nb Sheet Material A. Grassellino

***3:30 Break***

4:00 Performance of LCLS-II FPC vendors K. Fant

4:30 Cu Plating on Cryogenic Beamline Components K. Wilson

5:00 Executive Session

Wednesday, July 20th Berryessa

8:30 Cryomodule Magnet Performance V. Kashikhin (Bldg 53, Rm 2002)

9:00 Microphonics Control L. Doolittle

9:30 3.9 GHz Cryomodule Design and Verification G. Wu

*(Joint session with ES&H - 10:30 – 12:00)* Sonoma

10:30 Cryoplant Layout and Installation Plans D.Arenius (Bldg 41, Rm 2162)

11:15 4.5K Coldbox Design and Production Status H. Bai

11:45 Discussion

***12:00 Lunch*** Kavli Lobby (Bldg 51)

1:00 2K Coldbox Design and Production Plans M. Bevins

1:30 Cryoplant Controls C. Scanlon

2:00 Cryo Distribution Design and Production Status A. Klebaner

2:30 Cryo Distribution System Installation Plans V. Heloin

3:00 Executive Session

Thursday, July 21st

*(Joint session with ES&H - 8:30 – 12:00)* Toluca

8:30 Cryogenic Safety E. Fauve (Bldg 53, Rm 4002)

9:00 Cryogenic Systems Commissioning Plans H. Bai

9:30 RAMI Analysis J.Nelson

***10:00 Break***

10:30 Discussion

***12:00 Lunch (boxed)*** Kavli Lobby (Bldg 51)

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**Breakout Session 3 – Photon Systems Convener: M. Rowen**

***Time Topic Presenter*** ***Location***

Tuesday, July 19th Tulare

11:00 Photon System Overview and Status M. Rowen (Bldg 53, Rm 4006)

11:30 Undulator Layout and Requirements D. Martinez-Galarce

12:00 Undulator Damage: Simulations & Monitoring M. Santana/B. McKee

***12:30 Lunch*** Kavli Lobby (Bldg 51)

1:30 Undulator Performance and Tolerances H.-D. Nuhn

2:00 FEL Performance & Operating Configurations G. Marcus

2:30 HXR & SXR SS Simulations and Designs Y. Feng

3:00 Discussion and questions All

***3:30 Break***

*(Joint session with Controls - 4:00 to 5:00)* Havasu

4:00 Undulator Controls G. Jansa (Bldg 53, Rm 3004)

4:30 Photon Systems Controls J. Thayer

5:00 Executive Session

Wednesday, July 20th Tulare

8:30 SXR Undulator Production and Schedule M. Leitner (Bldg 53, Rm 4006)

9:00 HGVPU Design, Production and Schedule M. Leitner

9:30 Undulator Magnetic Design and Testing D. Arbelaez

***10:00 Break***

10:30 Magnetic Tuning and Measurements Z. Wolf

11:15 Discussion and questions All

11:45 Photon Beamline Layout and Requirements E. Ortiz

***12:00 Lunch*** Kavli Lobby (Bldg 51)

1:00 Photon Absorbers and BCS J. Krzywinski

1:30 Experimental Development Plans W. Schlotter

2:00 NEH Hutch Development Plans D. Fritz

2:30 Discussion and questions All

3:00 Executive Session

Thursday, July 21st Tulare

8:30 Imagers, Solid Attenuators and Apertures M. Campell (Bldg 53, Rm 4006)

9:00 Gas Attenuators & Energy Monitors D. Schafer

9:30 Optics: Cooling and Performance D. Cocco

***10:00 Break***

10:30 Soft X-ray Photon Dump Y. Feng

11:00 Discussion and questions All

***12:00 Lunch (boxed)*** Kavli Lobby (Bldg 51)

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**Breakout Session 4 – Controls Convener: B. Dalesio**

***Time Topic Presenter*** ***Location***

Tuesday, July 19th Havasu

11:00 Controls System Overview and Status M. Boyes (Bldg 53, Rm 3004)

11:45 Controls Network & Computing Architecture H.H J. Zhou

***12:30 Lunch*** Kavli Lobby (Bldg 51)

1:30 Injector and Linac Controls S. Babel

2:00 Cryo-Systems Controls K. Mattison

2:30 LLRF Controls C. Hovater

***3:15 Break***

*(Joint session with Photon Systems - 4:00 to 5:00)* Havasu

4:00 Undulator Controls G. Jansa (Bldg 53, Rm 3004)

4:30 Photon Systems Controls J. Thayer

4:45 Discussion

5:00 Executive Session

Wednesday, July 20th

8:30 High Performance Systems Platform L. Ruckman

9:15 Beam Diagnostic Systems A. Young

***10:00 Break***

10:30 Timing System M. Weaver

11:15 Machine Protection System R. Herbst

***12:00 Lunch*** Kavli Lobby (Bldg 51)

1:00 None-Ionizing Radiation Protection System M. Cyterski

1:30 Beam Containment System F. Tao

*(Joint session with ES&H - 2:00 to 3:00)*Sonoma

2:00 Personnel Protection System K. Belt(Bldg 41, Rm 2162)

2:30 ODH Monitoring S. Kwon

3:00 Executive Session

Thursday, July 21st Havasu

8:30 (Bldg 53, Rm 3004)

9:00

9:30 Discussion

***10:00 Break***

10:30

11:00

11:30 Discussion and questions

***12:30 Lunch (boxed)*** Kavli Lobby (Bldg 51)

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**Breakout Session 5 – Infrastructure Systems Convener: C. Rodrigues**

***Time Topic Presenter*** ***Location***

Tuesday, July 19th

*(Joint session with ES&H - 11:00 – 3:30* Sonoma

11:30 Infrastructure Projects Overview and Status C.Rodrigues (Bldg 41, Rm 2162)

12:30 ***Lunch*** Kavli Lobby (Bldg 51)

1:30 Cryoplant Building status and issues J.Albino/G.Hadsell (HDR)

2:30 Equipment Removal status and issues J.Sevilla

***3:30 Break***

4:00 **Tour of S-04**

5:00 Executive Session

Wednesday, July 20th

*(Joint session with ES&H - 9:00 – 10:00)* Sonoma

9:00 Accelerator Area Infrastructure status and issues J.Albino/KJWW(Bldg 41, Rm 2162)

***10:00 Break***

10:30 Photon area Infrastructure status and issues P. Abdallah/GP

11:30 Discussion

***12:00 Lunch*** Kavli Lobby (Bldg 51)

1:00 SLAC Projects status and issues L. Shewchuk

1:30 Infrastructure projects Q&A C. Rodrigues, J. Sevilla, J. Albino, P. Abdallah

3:00 Executive Session

Thursday, July 21st Toluca

8:30 Discussion and questions (Bldg 53, Rm 4002))

***10:00 Break***

11:00

***12:00 Lunch (boxed)*** Kavli Lobby (Bldg 51)

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**Breakout Session 6 – ES&H Convener: I. Evans**

***Time Topic Presenter*** ***Location***

**Tuesday, July 19th**

*(Joint session with Infrastructure - 11:00 – 3:30)* Sonoma

11:30 Infrastructure Projects Overview and Status C.Rodrigues(Bldg 41, Rm 2162)

12:30 ***Lunch***

1:30 Cryoplant Building status and issues J.Albino/G.Hadsell (HDR)

2:30 Equipment Removal status and issues J.Sevilla

***3:30 Break***

4:00 Cryogenic/ODH considerations and discussion I.Evans

4:30 General ESH I.Evans/J.Healy

5:00 Executive Session

**Wednesday, July 20th**

8:30 Discussion/Questions – Plan for day Sonoma

(Bldg 41, Rm 2162)

*(Joint session with Infrastructure - 9:00 – 10:00)* Sonoma

9:00 Accelerator Area Infrastructure status and issues J.Albino/KJWW(Bldg 41, Rm 2162)

***10:00 Break***

*(Joint session with Cryogenic Systems - 10:30 – 12:00)* Sonoma

10:30 Cryoplant Layout and Installation Plans D.Arenius (Bldg 41, Rm 2162)

11:15 4.5K Coldbox Design and Production Status H. Bai

11:45 Discussion

***12:00 Lunch***

1:30 Radiation Design M. Santana

*(Joint session with Controls - 2:00 to 3:00)*Sonoma

2:00 Personnel Protection System K. Belt (Bldg 41, Rm 2162)

2:30 ODH Monitoring S. Kwon

3:00 Executive Session

**Thursday, July 21st**

8:00 Discussion/Questions – Plan for day

*(Joint session with Cryogenic Systems - 8:30 – 12:00)* Toluca

8:30 Cryogenic Safety E. Fauve (Bldg 53, Rm 4002)

9:00 Cryogenic Systems Commissioning Plans H. Bai

9:30 RAMI Analysis J.Nelson

***10:00 Break***

10:30 Tour (at discretion of reviewers)

***12:00 Lunch (boxed)***