

Program 5/12

Sunday PM May 17

7:00 Registration and Reception

Monday AM: Setting the Stage

May 18 Chair:

8:20 S. Meshkov (Caltech) Welcome

8:30 N. Mavalvala (MIT) Setting the Stage

8:50 Discussion

Monday AM: Network Status of Advanced Detectors, Simulations

May 18

8:55 D. Sigg (LHO) Overview: Lessons learned from commissioning of Advanced Detectors, remaining problems

9:25 Discussion

9:35 H. Yamamoto (Caltech), G. Vajente (Caltech) Simulations: Where are we and what are we missing?

10:05 Discussion

10:15 Break

Monday AM: Workshop Goals I

May 18 Chair:

10:45 Thermal Noise and Materials, Coatings, Optics, Cryogenics
I. Martin (Glasgow), M. Punturo (Perugia), K. Yamamoto (ICRR)

11:10 Discussion

11:20 Topologies and Squeezing
L. Barsotti (MIT), H. Grote (AEI)

11:45 Discussion

11:55 Controls
D. Coyne (Caltech), F. Matichard (MIT)

12:20 Discussion

12:30 Lunch

Monday PM: Workshop Goals II

3:30 Gravity Gradients and Low Frequency
J. Harms (INFN Pisa), V. Mandic (Minnesota)

3:55 Discussion

Monday PM: Enhanced Interferometers: Near Term (<5 years)

May 18 Conveners: R. Adhikari (Caltech), S. Hild (Glasgow)
4:05 Mitigation of Scattered Light Noise (Denis Martynov, 10+5)
4:20 Beam splitter in aLIGO (Hiro Yamamoto, 10+5)
4:35 Advanced Virgo upgrade plans (TBD, 20+5)
5:00 GEO upgrades (Emil Schreiber 15+5)
5:20 Squeezing for aLIGO (Lisa Barsotti, 10+5)
5:35 Break
6:05 Kagra upgrade plans (Kenatro Somyia, 20+5)
6:30 Better coatings (Steve Penn, 10+5)
6:45 aLIGO suspension upgrades (Giles Hammond, 10+5)
7:00 END

Tuesday AM Workshop Meetings

May 19

9:00 - 10:30 Workshop meetings
10:30 Break
11:00 - 12:30 Workshop meetings

[Thermal Noise Workshop Agenda](#)

[Low Frequency Workshop Program,](#)

[Topologies and Squeezing Agenda](#)

[Controls Agenda](#)

Tuesday PM Workshop Meetings

May 19

4:00 - 6:00 Workshop meetings
6:00 - 8:00 Posters and reception

[Posters](#)

Wednesday AM Workshop Meetings

May 20

9:00 - 10:30 Workshop meeting
10:30 - 11:00 Break
11:00 - 12:30 More Posters Session

Wednesday PM Workshop Meetings

May 20

4:00 - 5:30 Workshop meeting

5:30 - 6:00 Break

6:00 - 7:00 Workshop meeting

Thursday AM Revisiting the Roadmap

May 21 Convenor: D. Reitze

9:00 - 9:15 Revisiting the GWIC Roadmap, D. Reitze

9:15 - 10:30 Panel Discussion (Matt Evans, Stefan Hild, Seiji Kawamura, David McClelland, Michele Punturo, Sheila Rowan, Daniel Sigg; Dave Reitze, Moderator)

10:30 Break

Thursday AM Workshop Summaries I

May 21 Chair:

11:00 Controls

12:00 Discussion

12:00 Adjourn

Thursday PM Workshop Summaries II

May 21 Chair: A. Lazzarini (Caltech)

3:30 Topologies and Squeezing

4:30 Discussion

5:00 Break

5:30 Thermal Noise and Materials, Coatings, Optics, Cryogenics

6:30 Discussion

7:00 Adjourn

7:30 Banquet

Friday AM Future Detectors long Term (>5 years)

May 22 Conveners: M. Evans (MIT), H. Lueck (Hannover, Max Planck)

9:00 Future Facilities: Requirements, Realistic expectations, Engineering challenges, Tradeoffs between above/underground, length, location

9:00 Sathya (remote) - science objectives for Einstein Telescope (ET) and Cosmic Explorer (CE)

9:20 Lueck - current vision of ET, highlighting required technologies and design choices
9:40 Evans - current vision of CE, highlighting required technologies...
10:00 Barsotti - outlook for squeezing in ET an CE
10:15 Hild - implications of topology choice
10:30 Break
11:00 Ballmer+Matichard - scalability of optics and suspensions
11:15 Yamamoto - pros and cons of cryogenics for ET and CE
11:30 Harms - above/underground tradeoff
11:45 start open discussion and on-the-fly modeling
12:30 Lunch

Friday PM Workshop Summaries III

May 22 Chair:
4:00 Gravity Gradients and Low Frequency
5:00 Discussion
5:30 Break

Friday PM Plans for 2016

May 22 Conveners: F. Fidicaro (Pisa), S. Meshkov (Caltech)
6:00 Plans for 2016
F. Fidicaro (Pisa), S. Meshkov (Caltech)
6:30 Summary
S. Rowan (Glasgow)
6:30 Adjourn