**L1500052**

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| 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](https://dcc.ligo.org/public/0118/L1500052/003/Thermal-workshop-agenda-2015-04-17.pdf)  [Low Frequency Workshop Program](https://dcc.ligo.org/public/0118/L1500052/003/LowFrequencyWorkshopProgram-2015-04-24.pdf),  [Topologies and Squeezing Agenda](https://dcc.ligo.org/public/0118/L1500052/003/Topologies%20and%20Squeezing%20Agenda.pdf)  [Controls Agenda](https://dcc.ligo.org/public/0118/L1500052/003/Controls%20Agenda.pdf)  Tuesday PM Workshop Meetings May 19 | |
| 4:00 - 6:00 | Workshop meetings |
| 6:00 - 8:00 | Posters and reception |
| [Posters](https://dcc.ligo.org/public/0119/G1500631/001/G1500631%20GWADW%202015%20POSTERS.pdf) | |
| 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 |
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| 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. Fidecaro (Pisa), S. Meshkov (Caltech) |
| 6:00 | Plans for 2016 F. Fidecaro (Pisa), S. Meshkov (Caltech) |
| 6:30 | Summary S. Rowan (Glasgow) |
| 6:30 | Adjourn |