Agenda for the X-ray Surveyor Face-to-Face Meeting 25-26 July, 2016
Harvard-Smithsonian Center for Astrophysics, Phillips Auditorium

Monday, July 25

8:55 Welcome remarks by the STDT co-chairs (Feryal Ozel and Alexey Vikhlinin)
9:00-9:30 NASA HQ welcome and remarks on Decadal Studies Charter (Paul Hertz) 9:30-10:00
NASA Headquarters remarks (Dan Evans, Mooni Ahmed)
10:00-10:30 Decadal Lessons Learned (Keith Warfield)
10:30-11:00 STDT discussion with Paul Hertz on Decadal strategies and approaches
11:00-12:00 Discussion/Brainstorming Session on fulfilling the Triple Role of the STDT:
Science, Technology, Community Advertising (Feryal Ozel and Alexey Vikhlinin)

12:00-1:00 Lunch

1:00-2:30 Science and Technology Working Groups Breakout Session
2:30-3:30 Presentations from WG Leaders I: 1, 2, 3, 4
  2:30-2:45 Baryon Cycles in and out of Galaxies (J. Bregman, J. Kollmeier)
  2:45-3:00 First Accretion Light (N. Brandt, P. Madau, D. Stern)
  3:00-3:15 Evolution of Structure and AGN Populations (S. Allen, R. Hickox, T. Jeltema,
          D. Stern)
  3:15-3:30 Physics of Plasmas (E. Quataert, A. Vikhlinin)

3:30-4:00 Coffee

4:00-5:00 Presentations from SWG Leaders for 5, 6, 7, 8
  4:00-4:15 Physics of High Density Matter, Compact Objects and Accretion (F. Paerels,
          F. Ozel, C. Reynolds)
  4:15-4:30 Physics of Feedback (M. Donahue, C. Reynolds)
  4:30-4:45 Stellar Lifecycles (L. Lopez, R. Osten, A. Ptak, D. Pooley)
  4:45-5:00 X-Rays in the Multi-Wavelength, Multi-Messenger Era (R. Petre, R. Smith)

Tuesday, July 26

9:00-10:30 X-ray Surveyor 2015 Concept Study at MSFC ACO (A. Schnell)
10:30-11:00 Athena Science (P. Nandra, R. Smith)
11:00-11:15 Past and Future: Chandra to Hitomi Lessons Learned (D. Schwartz)
11:15-11:30 Chandra Lessons Learned – industry partnerships (J. Arenberg)
11:30-12:00 Presentation from Optics WG Chair (M. Pivovaroff)

12:00-1:00 Lunch
1:00-2:00 Science Working Groups Breakout Session
2:00-2:30 Presentation from Instrument WG Chair (TBD)
2:30-3:00 Path Forward: the Study Office (Schedule and Resources) – J. Gaskin

3:00-3:30 Coffee

3:30-4:00 Path Forward: for SWGs (F. Ozel, A. Vikhlinin)
4:00-4:30 Planning future F2F meetings, XRS science conference, and next stages of the study (F. Ozel, J. Gaskin)

List of Science Working Groups

1. **Baryon Cycles in and out of Galaxies:**
   (includes: cosmic web, IGM, CGM, MW halo, evolution of normal galaxies) Joel Bregman, Juna Kollmeier

2. **First Accretion Light:**
   (includes: BH seed formation, X-rays from early BHs, X-ray binaries in early galaxies) Niel Brandt, Piero Madau, Daniel Stern

3. **Evolution of Structure and AGN populations:**
   (includes: statistical studies of AGN populations, galaxy evolution, clusters) Steve Allen, Ryan Hickox, Tesla Jeltema, Daniel Stern

4. **Physics of Plasmas:**
   (includes: shocks, particle acceleration, interfaces, transport processes, turbulence, instabilities in numerous astrophysical systems) Eliot Quataert, Alexey Vikhlinin

5. **Physics of High Density Matter, Compact Objects, and Accretion:**
   (includes: physics of cold dense matter, BH spacetimes, GR tests, TDEs, Short bursts) Frits Paerels, Feryal Ozel, Chris Reynolds

6. **Physics of Feedback:**
   (includes: feedback on all scales from BHs to young stars to SNe to jets to galactic winds) Megan Donahue, Chris Reynolds

7. **Stellar Lifecycles:**
   (includes: stars, X-ray binaries, supernovae, SN remnants) Laura Lopez, Rachel Osten, Andy Ptak, Dave Pooley
8. X-rays in the Multi-wavelength, Multi-Messenger Era:
(Synergies with gravitational waves, WFIRST, LSST, etc.) Robert Petre, Randall Smith