Addressing SAC's recommendations from the April 2022 meeting

• Early Science for TMO, ChemRIXS [detail] and qRIXS [draft]	–talks by Cryan, Wolf, Mehta
• Engaging new materials science communities	–talks by Schoenlein, Kling, Mehta
• TXI and ground-state chemistry	–talk by Aquila
• MEC Science and Instrumentation Review	–talk by Dyer
• Data stream development and implementation	– talk by Dunne (strategy) and details at next meeting (following UEC engagement)
• LCLS-X high energy (10's keV) science	– See next meeting (following SLAC project)

New SAC recommendations / areas of focus (selection)

- Review of the Science Campaigns (including output, community growth, and method development)
- Staffing issues: retention, diversity in recruitment, career development, sustainable operations, balance between 'standard configuration' and 'novel' experiments, user access prior to start of experiments, …
- Consideration of first LCLS-II PRP access as a 'privileged' phase with accepted risk
- Advice on the upcoming "Assessment of Scientific Impact" review
- **Bioscience**: focus on unique XFEL areas (eg., sub-ms signaling dynamics)
- **AMO**: focus on development of uniquely capable endstations (e.g. position-sensitive MBES, DREAM, …) with attention to advanced data analysis training
- **Chemical Sciences**: Focus on broadening the user base (e.g. for the Earthshots), S-spectroscopy, …
- **Materials science**: Broaden to non-equilibrium 'regular' materials, and continued community engagement for qRIXS early science
- **MEC**: Consideration of the IFE program impact; access to experiment modeling tools

SAC agenda

	LCLS Scientific Advisory Committee	
Thursday, Oct 13, 2022		
start	**Topic**	**Presenter**
7:00	Executive session	
7:10	LCLS Update, Response to recommendations, and Charge to the SAC	Mike Dunne
7:40	Science Impact Review, Campaign updates	Bob Schoenlein
8:10	SRD update and initiatives	Matthias Kling
8:40	Bioscience	Mark Hunter
9:10	*Break*	
9:25	AMO Science	James Cryan
10:05	Chemical Science	Thomas Wolf
10:45	Material Science	Apurva Mehta
11:25	MEC Science	Gilliss Dyer
11:55	Poster session	8 posters
12:35	Executive session	
13:00	*End*	
Friday, Oct 14, 2022		
start	**Topic**	**Presenter**
7:00	Executive session / Discussion with LCLS management	
7:30	Photon Science R&D	Diling Zhu
8:00	Accelerator update and R&D	Ago Marinelli
8:30	TXI	Andy Aquila
9:00	Detector briefing / LDAC	Angelo Dragone
9:30	*Break*	
9:50	Poster session	8 posters
10:30	Executive session	
11:30	Close-out	
12:00	*End*	