

JULY 27, 2022

PSC ALL-HANDS MEETING

LAURENT C. CHAPON

Associate Laboratory Director for Photon Sciences
APS Director



Argonne National Laboratory is a
U.S. Department of Energy laboratory
managed by UChicago Argonne, LLC.



Laurent Chapon: PSC Update
Safety, DEI, staff matter, training, highlights, budget, APS-U

Mike Edelen: Operations & AES Update

Jim Kerby: APS-U Update

Geralyn Becker: HR Update: Performance Appraisals

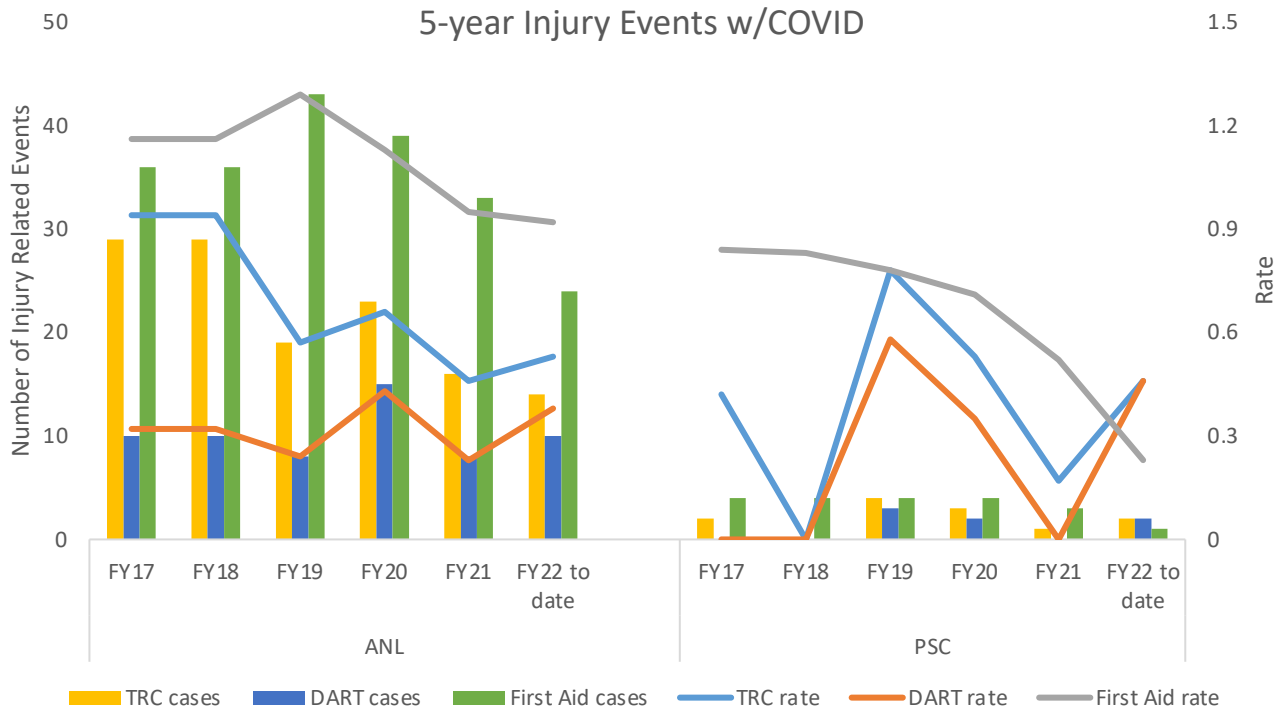
Q&A

IN MEMORIAM: LEE C. TENG



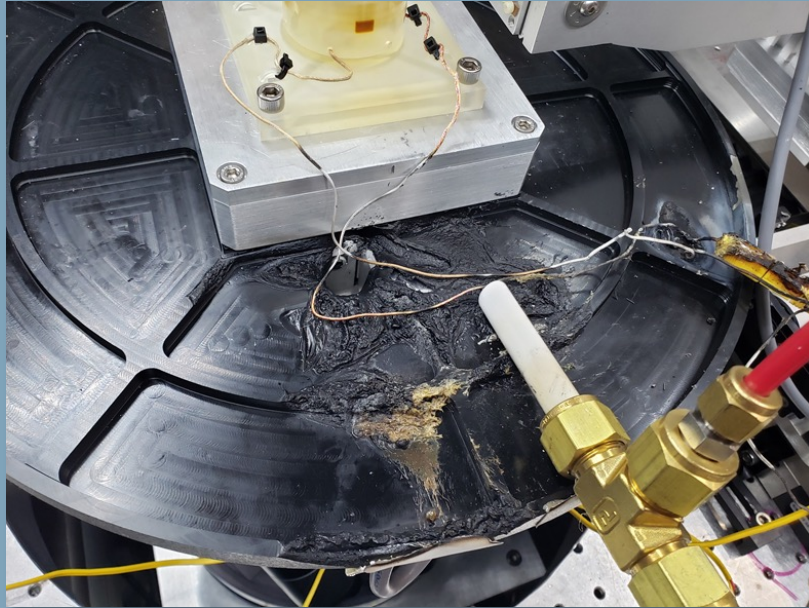
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SAFETY



SAFETY

- Learning from minor issues to prevent major issues – FY22



Wrong Version of Interlock Software Modified

- Local copy of software modified and loaded
- Interlock failed validation
- Revised process for ensuring the most current software being modified

SAFETY

DOE Assessment of Work Planning and Control

Office of Enterprise Assessments WPC Assessment completed April 2022

Strengths

- WPC micro-learning sessions (**Best Practice**)
- Innovative utilization of Artificial Intelligence to link Lessons Learned with WCDs (**Best Practice**)
- Use of Laboratory Risk Analysis Tool
- Argonne Electrical Safety Manual

Opportunities to Improve

- Work scopes and scope limits in some WCDs not adequate
- 2 cases where WCDs did not have adequate implementation of hazard controls
- Radiological work permits were not adequate for some specific radiological monitoring

- No specific recommendations for PSC

SAFETY

APS evacuation drill on August 2nd at 9:30 AM

BUILDING	RELOCATION AREA
400 Sectors 1-4	Area in front of LOM 434
400 Sectors 5-8	Area in front of LOM 435
400 Sectors 9-12	Building 446 Southwest parking lot
400 Sectors 13-16	Corner of Bluff and Kearney Rd building 446
400 Sectors 17-20	Front parking lot of building 444 (LBB Building)
400 Sectors 21-24	Area in front of LOM 437
400 Sectors 25-29	Building 450 parking lot
400 Sectors 30-35	Building 450 parking lot
400 EAA	If you exit by 438 - 450 parking lot If you exit by 401 - 314 parking lot
401	Building 314 parking lot
402	Building 460 Guest House parking lot
400A, 411, 412, 413, 415, 420	Evacuate through infield access tunnel to perimeter fence on Bluff road

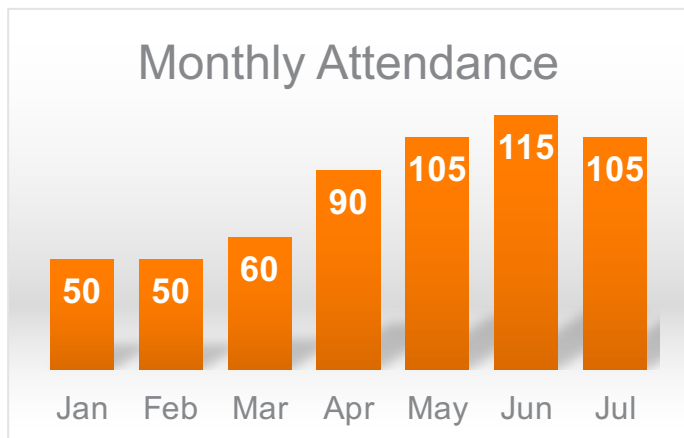
BUILDING	RELOCATION AREA
314	Area in front of LOM 431
431	Area in front of LOM 434
432	Area in front of LOM 435
433	Building 446 Southwest parking lot
434	Corner of Bluff and Kearney Rd building 446
435	Front parking lot of building 444 (LBB Building)
436	Area in front of LOM 437
437	Building 450 parking lot
438	Building 450 parking lot
444	Front parking lot of 440 (CNM Building)
450	Area in front of LOM 433

Diversity, Equity & Inclusion

Recording, slides and info
available on our website



“The Voice of PSC” - every 3rd Thursday 1:00 PM



SPEAKING UP



SPEAKING UP IF YOU HAVE A CONCERN

Resources for employees to address workplace concerns

EMPLOYEE RELATIONS OFFICE, HUMAN RESOURCE SERVICES

- The Employee Relations Office promptly, thoroughly, and impartially investigates reports of employee concerns, including reports of harassment, discrimination, and retaliation.

CONTACT

Employee Relations Office
Human Resource Services
Phone: 630-252-3434
Email: hrs-er@anl.gov

REPORTING HOTLINE

- Operated by an independent third party – Navex Global.
- Available 24 hours a day, seven days a week.

CONTACT

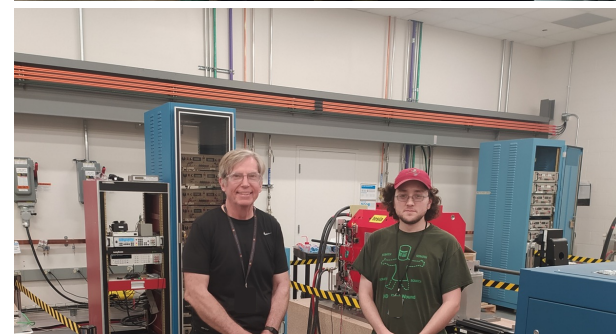
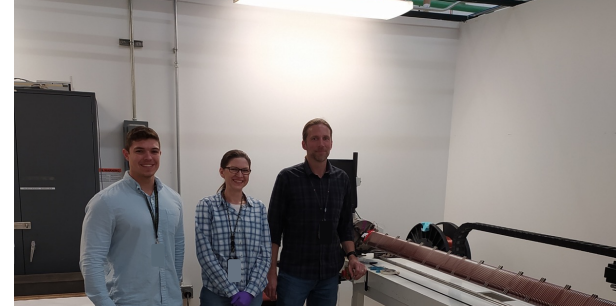
Navex Global Hotline
Phone: 877-587-2449
<https://anl.tnreports.com>

LABORATORY OMBUDS

- Argonne's Ombuds is a confidential, informal, impartial, and independent resource for any laboratory employee with a workplace concern, issue, or conflict.

CONTACT

Brad Ginn
Laboratory Ombuds
Phone: 630-252-7098
Email: bginn@anl.gov
<http://inside.anl.gov/pages/ombuds-office>



SECRETARY GRANHOLM VISIT



Robert Winarski Kevin Wakefield

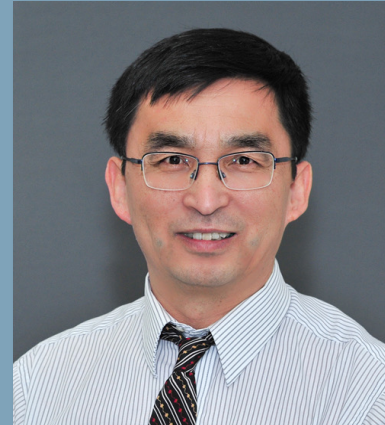


STAFF CHANGES



Barbara Erickson

PSC Human Resources Manager



Jiyong Zhao, Group leader

XSD Inelastic X-ray & Nuclear Resonance Scattering

NEW STARTERS



Joel Fuerst



Thomas Naughton



Sarah Wiegold



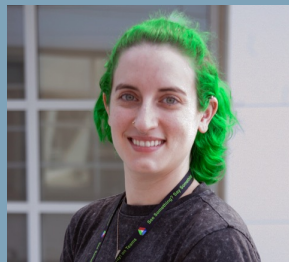
Anakha Babu



Mark Wolfman



Aleks Solovyev



Rebecca Weber



Chris Gorman



Chris Kirsten

NEW STARTERS - APS-U



Jimmy Alba



Larry Pitre

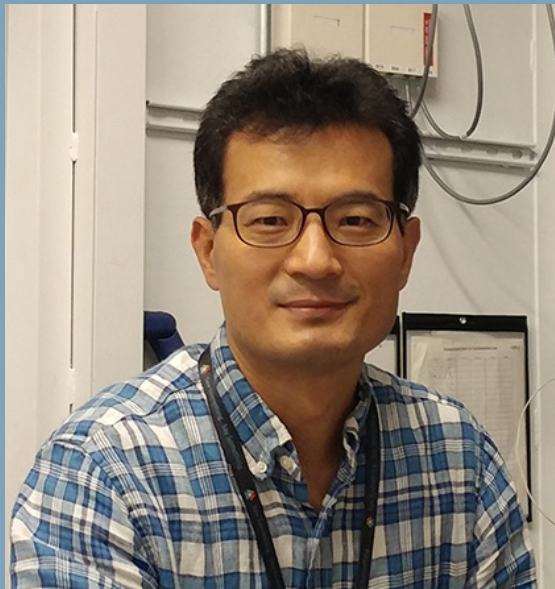


David Williamson

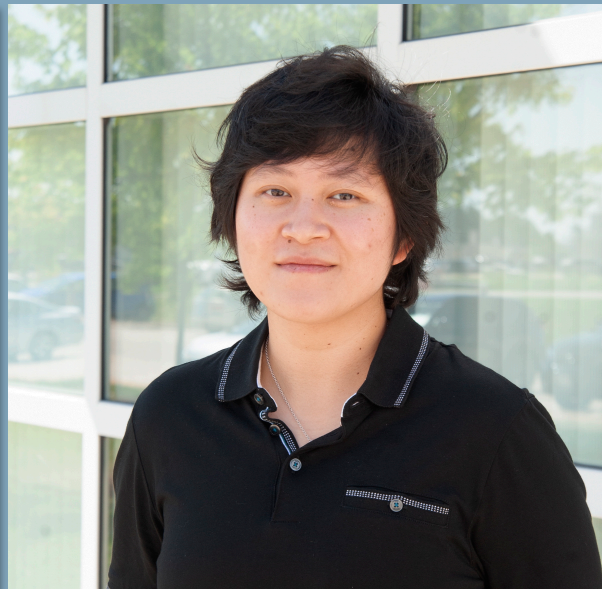


Konrad Witek

AWARDS & RECOGNITIONS



Sungsik Lee



Yanqi (Grace) Luo



Gilberto Fabbris

NX SCHOOL



- Great opportunity to train the next generations of scientists
- Several COVID cases last week, despite measures
- PCR testing Wednesday of last week and quarantined positive cases
- Decided to limit interactions with staff in the last few days of the school

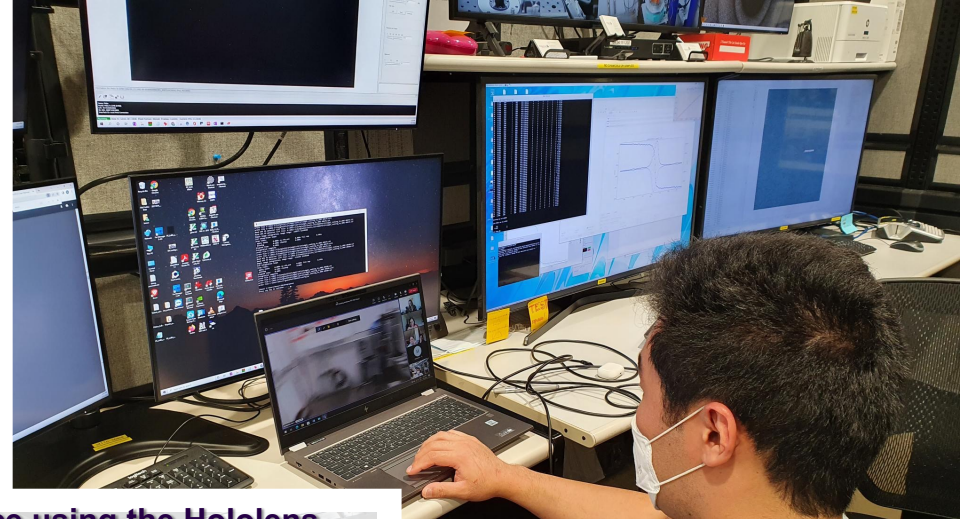
*"It has been so beneficial to spend time with beamline scientists! In addition to learning about their beamline and relevant experimental techniques, it has been **inspiring to hear the scientists' stories** about what led them to their current **careers at APS**. The numerous online resources they shared are also **invaluable and will greatly benefit our future research and collaborations.**"*

"Overall, I experienced everyone caring a lot and being respectful of one another's circumstances which made it still a good experience :)"

NX SCHOOL

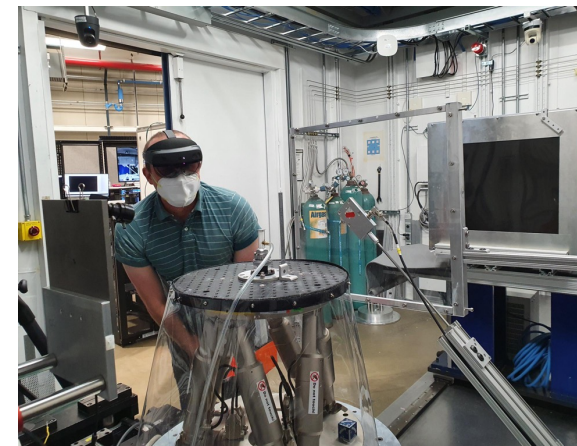
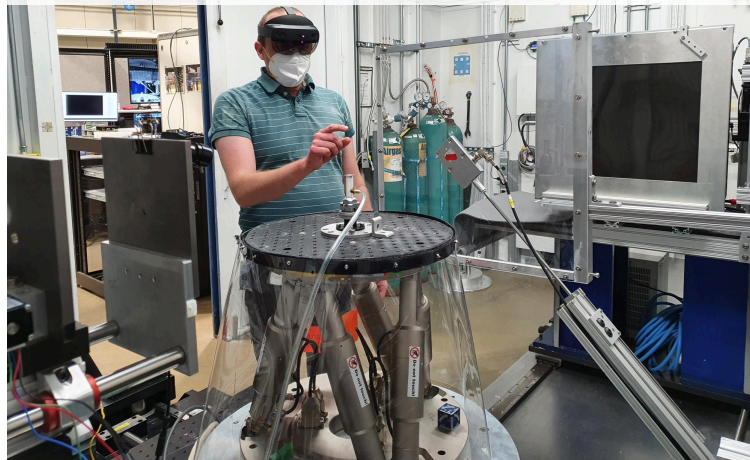
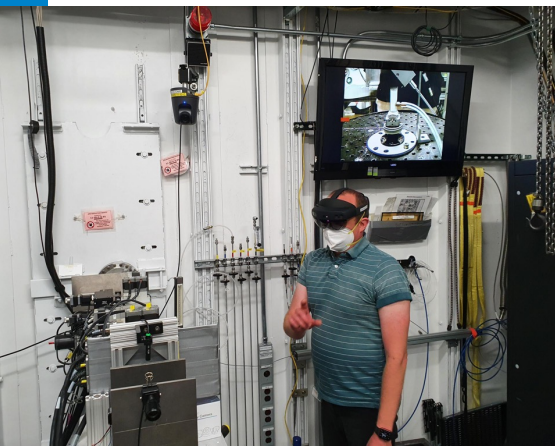


**Running the beamline from the office using remote desktop
(Andrey Yakovenko)**

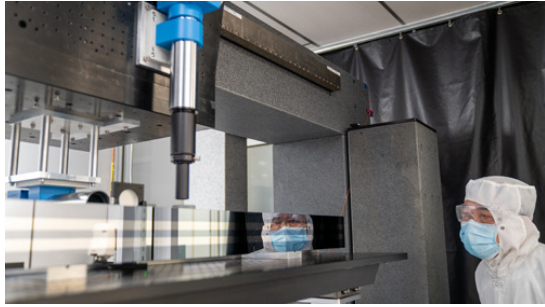


**Support for the beamline control
(James Weng)**

**Almost "real" experience using the HoloLens
to explain Grazing Incidence Total Scattering.
(Olaf Borkiewicz)**



XSD: UPGRADE TO THE METROLOGY LAB



Interferometers temporarily relocated to LOM-437 to continue measurements

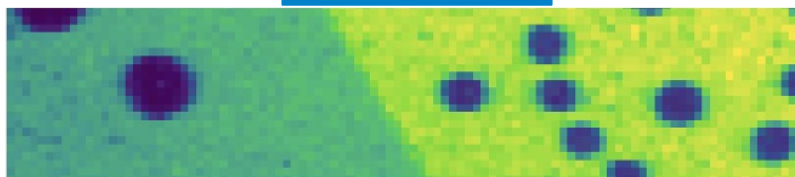


Long-Trace Profiler wrapped in packaging material during work

Jun Qian & Brandon Stone (XSD-OPT)

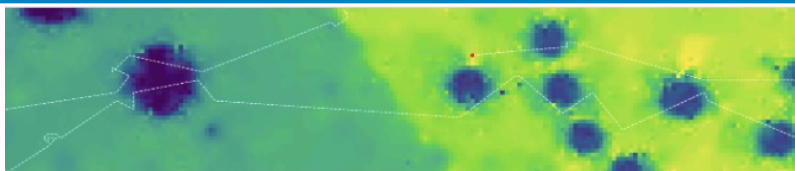
XSD: SMART DATA ACQUISITION

Full-res image



'Ground truth' : 100 nm steps

AI-guided acquisition



4.3X less points



Locations chosen by AI to scan - Dot = scan point

Saugat Kandel, Anakha Babu, Antonino Miceli, Mathew J. Cherukara (XSD), Tao Zhou, Martin V. Holt (NST), Zichao (Wendy) Di (XSD/MCS), Charudatta Phatak (MSD)

ASD: APS LINAC REFURBISHMENT IS HAPPENING

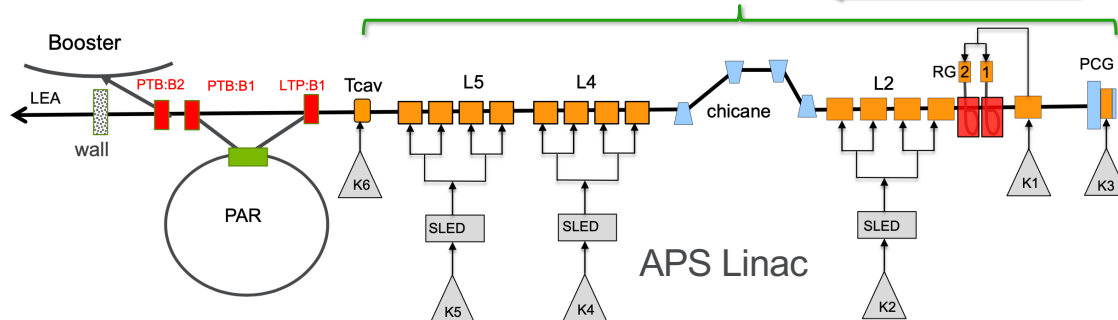
- Addresses obsolescence issues in the APS linac to support APS-U operation



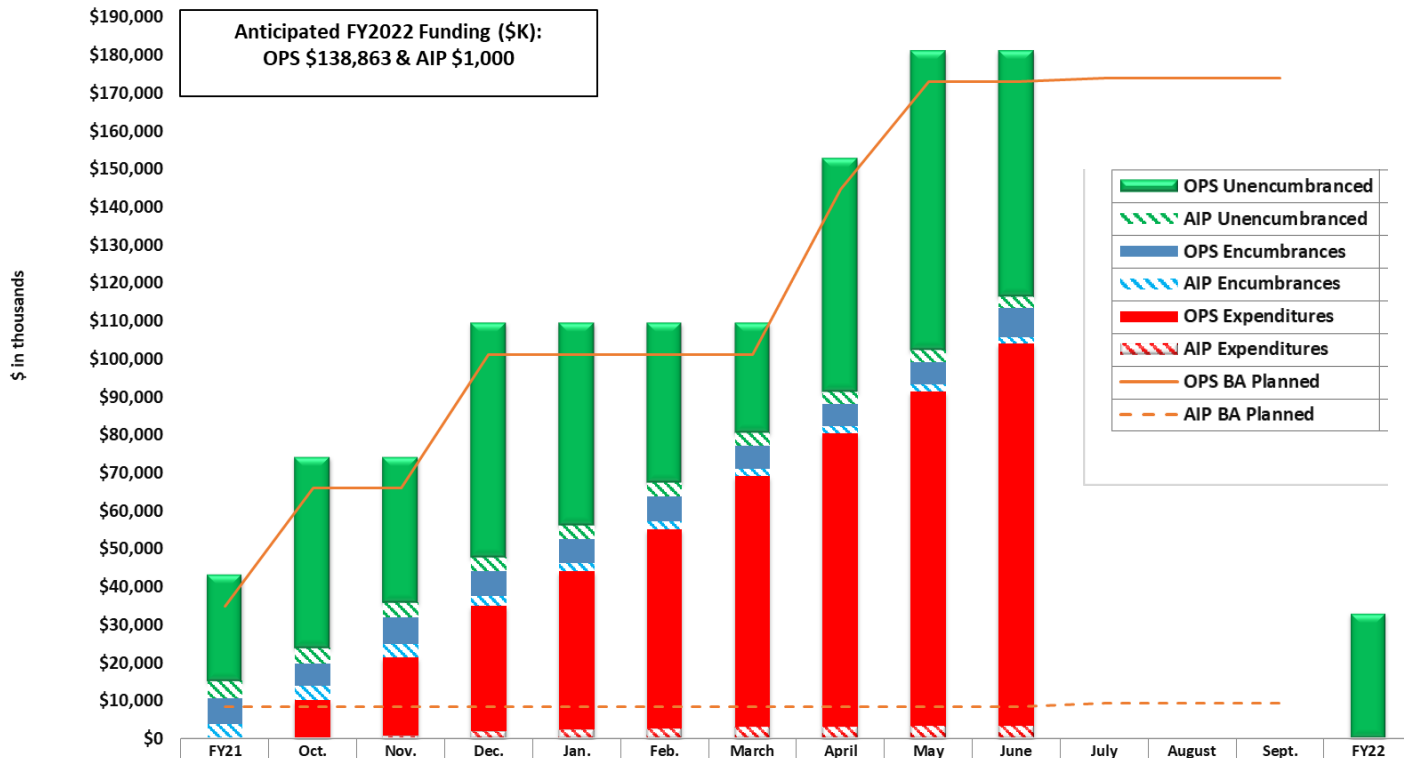
David Meyer



Terry Smith

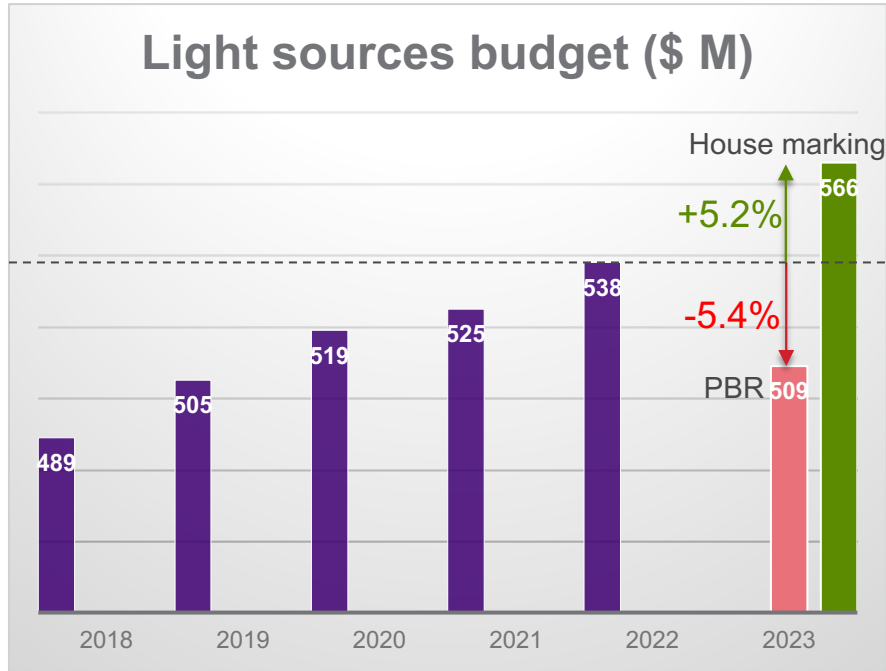


BUDGET FY22



BUDGET

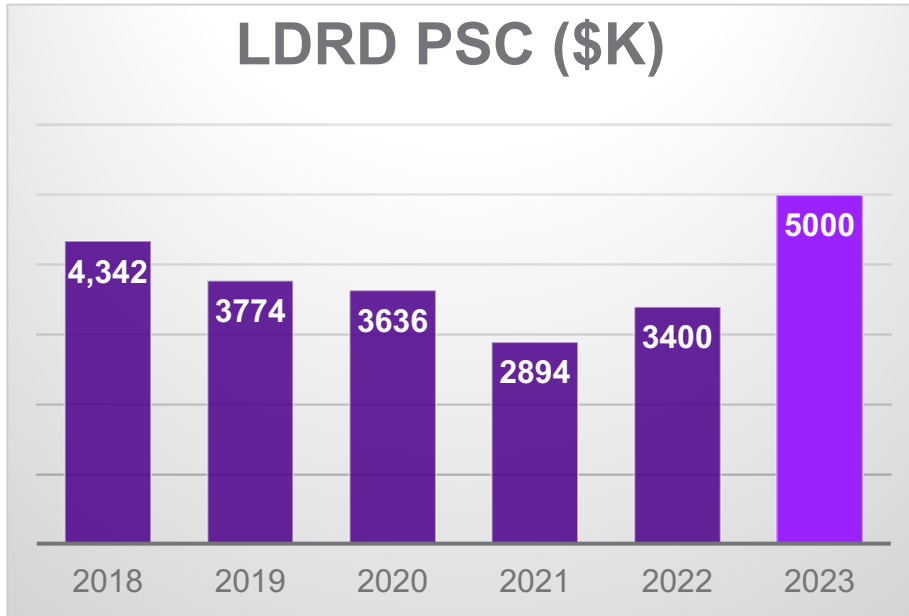
Light Sources Operations Budgets



- Light source directors, national lab directors working together
- Define optimal budgets for out-years bottom-up
- Budget for out-years focus on additional beamline staff and integrate essential capex in the baseline to modernize our high-power RF system, and support a rolling program of instrument upgrades

BUDGET

▪ LDRD – Allocation FY23



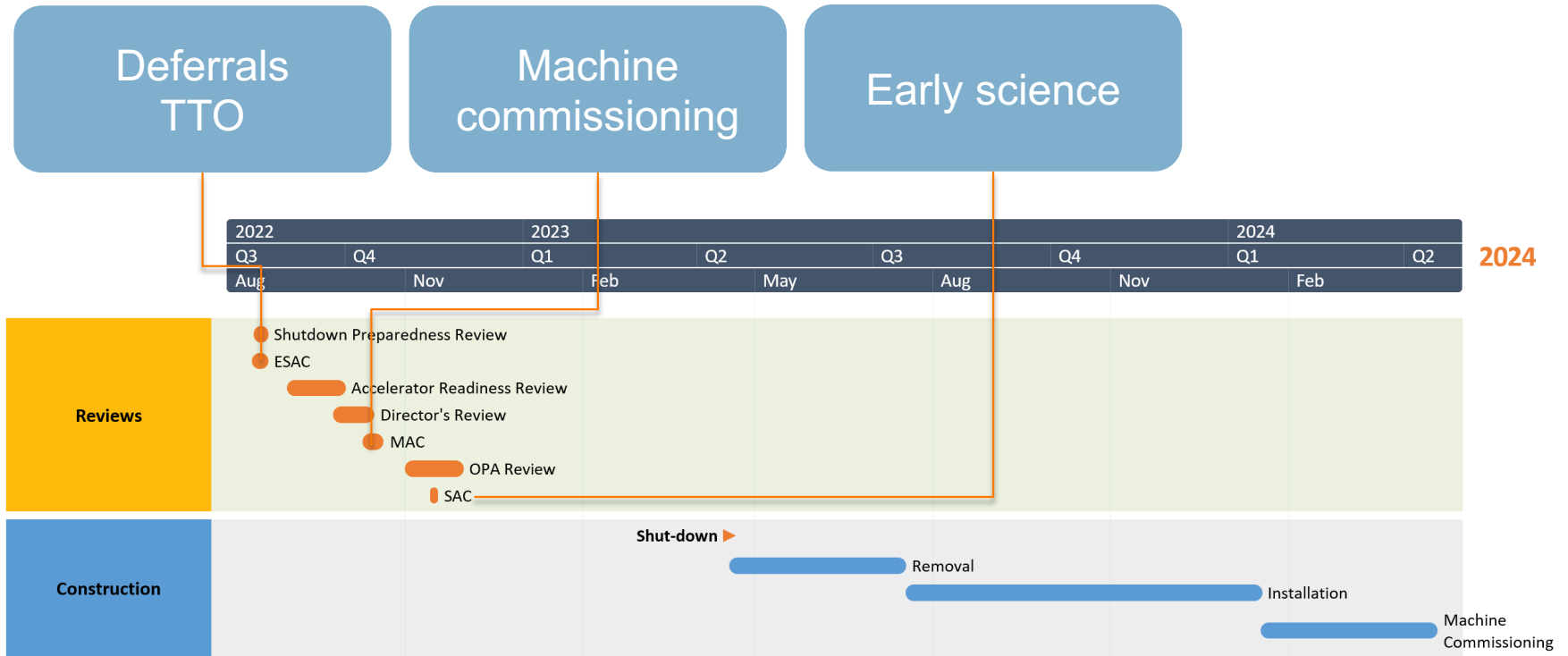
- Strong support from the Lab for the hard x-ray sciences initiative
- Early Science at APS-U
 - Develop and mainstream novel, user-friendly methods and tools for a 100-fold improvement in hard x-ray coherent imaging and scattering
 - Establish data analysis pipelines to enable near-real-time science on APS-U feature beamlines, efficiently handling the 10-fold increase in the volume of data that will be produced
 - Provide dedicated support for early science using the new experimental capabilities at the upgraded APS
- Technology for compact accelerator

APS-U DESCOPING



- Supply chain issues and pandemic-related impacts have reduced our contingency to sub-optimal levels (23% on cost to go)
- Reducing scope at this stage is required to reach our immediate objectives....
... but will not affect our final goals
- PSC and Lab management committed to realizing the full potential of the new APS
- Essential to preserve April 2023 shutdown

PREPARATION FOR APS-U



ARGONNE IMPACT AWARD WINNERS

Enhancement of Argonne's Reputation: 56 awards

Extraordinary Effort: 13 awards

Innovation: 15 awards

Program Development: 1 award

Safety Results: 14 awards

Significant Cost Reduction: 1 award

The names of all the recipients will be shown during the Q&A session at the end of this meeting.

25+ YEARS SERVICE AWARDS

25 years

- Frederick Carter
- JoAnne Wold
- Sarvjit Shastri

30 years

- John Hoyt
- Raymond Ziegler

45 years

- Kenneth Sidorowicz

55 years

- Clarence Clark

Argonne Impact Award winners

Enhancement of Argonne's Reputation

Andrew Broderick, Felix Lacap, Xuli Wu, Arista Thurman, David Wallis, Steve Potempa, John Smejkal, Zachary Basile, Brian Robinson, Ken Sidorowicz, Cyndi Salbego, Jessi Czyz, Saul Lapidus, Randy Flood, Nancy Lazarz, Jan Illavsky, Kristin Ahrens, Susan White DePace, Jacki Flood

Arvind Ramanathan

Extraordinary Effort

Joseph Budz

Ralph Bechtold

Curtis Forth, Aleksandar Marcetic, Christopher Sawatski

Joseph Strzalka, Benjamin Davis, Raymond Ziegler, Don Jensen, Ignacia Guerra, Mike Fisher, Altaf Khan, Qingteng Zhang

Cara Hotz, Sonya Soroko, Madison Broeker, Alison Mackey, Cheryl Drugan, Kevin Brown, Janet Barrett, Lorenza Salinas, Carolyn Steele, Andrea Manning, Elizabeth Santay, Nikki Forrester, Jane Andrew, Michelle Kelly, Karolina Michalska, Paula Bulaon

Ashley Wayman, Shane Flood, Matt Spilker

Loretta Cokeley



Argonne National Laboratory is a
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Rolando Gwekoh, Kristine Mietsner, Spiro Skiadopoulos, Dusan Banjanac





Please do not hesitate to reach out
Always welcoming feedback !
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