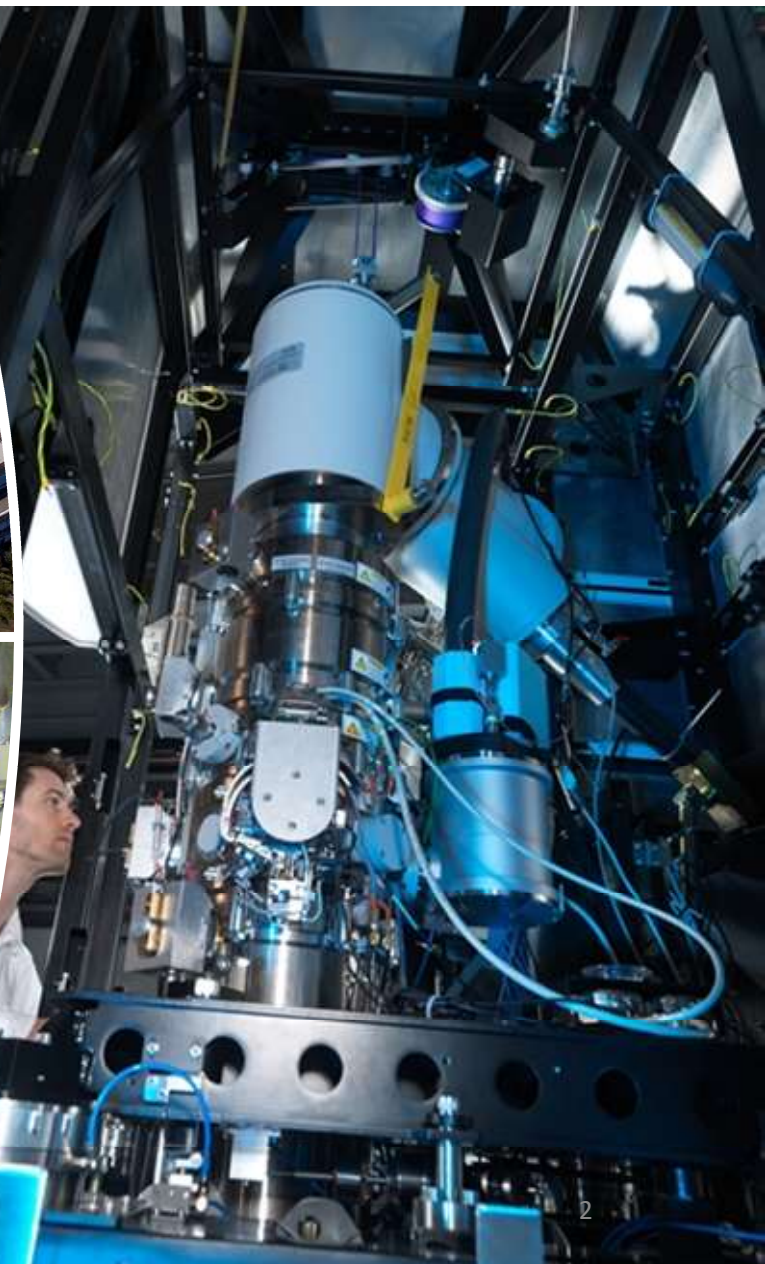# EPICS Developers Meeting and Codeathon at DLS
# 6 to 10 March 2023

Ronaldo Mercado (DLS)

Ralph Lange (ITER)

# Hosted by Diamond Light Source in Oxfordshire, UK

- UK's National Synchrotron, built 2002-2007

- Diamond-II Upgrade project coming up

EPICS Spring 2023 collaboration Meeting, Fermilab

# 2023 EPICS Codeathon

- Mid-size: 31 registered participants from 12 institutions

- Well represented: Diamond (12), ESS (4), CEA (3), STFC/ISIS (3)
  From companies: Osprey DCS, FMB, Cosylab

- Only a small group for Java, no separate group for Python

## Monday 6th March

| | |
|---|---|
| 9:30-10:30 | *Arrival and Registrations* |
| From 9:30 onwards | Meeting of the EPICS Core Developers Group |
| | **Lunch break** |
| Afternoon | Meeting of the EPICS Core Developers Group |
| 17:00 | End of the day |

## Wednesday 8th March

| | |
|---|---|
| From 9:30 onwards | Coding |
| | **Lunch break** |
| Afternoon | Coding |
| 17:00 | End of the day |

# End of event survey

- Q2.
  Overall rating of workshop generally.
  70-90% strongly agree

- Q3.
  How useful did you find attending this hand-on workshop in person, rather than remotely?
  70% said extremely useful
  10% wouldn't have minded if it was virtual

- Q6.
  Rate the catering.
  Average to excellent rating.

- Q7.
  Rate the workshop dinner.
  Good to Excellent rating.

- Q9.
  Did you find the transfers via public busses arranged by Diamond easy to navigate?
  100% yes.

- When using the room display the font was too small to read from the back

- Acoustics (w/o mic) of the large room are pretty bad

- A brief daily status update of current projects may have been nice

- Many thanks to the Diamond Events Team
  - Stefania
  - Laura
  - Phoenix

# Noteworthy

- EPICS support for VxWorks is becoming very thin
  - APS will move their embedded (non-Linux) IOCs to RTEMS
  - Diamond will move to RTEMS within the next year
- RTEMS gaining importance as real-time platform for EPICS
- iocStats has a new maintainer: Simon Rose (ESS)

More details at: https://epics.anl.gov/meetings/codeathon-23/index.php

# Outcome

Though less people involved than last year, more results were produced.

- The original list of work items was covered by Thursday
- ~30 pull requests for EPICS Base, ~10 for EPICS modules (caPutLog, iocStats, asyn) and ~2 for EPICS Documentation (plus Java – have no numbers)
- Andrew received 386 emails from GitHub that week in 71 different conversations
- We did peer reviews of pull requests on Thu/Fri

# Community benefits

- Contributing to the Codeathon is affordable for smaller labs: "the community sponsors a full development team for a week"

- Get people in contact with the code and authors

- Bringing your own work project is possible and encouraged

- A win-win-win situation

- Talk to your managers

- Talk to your team

diamond