3rd Workshop on Controls and Acquisition GUI Strategies

Stuart Fisher (ESRF)
Chris Roderick (CERN)

23rd September 2024

PIONEERING SYNCHROTRON
SCIENCE

The European Synchrotron | ESRF

60+ Participants from ~23 Institutes

ALBA Synchrotron

ANSTO - Australian Nuclear Science and Technology Organisation

ANL - Argonne National Laboratory

BNL - Brookhaven National Laboratory

CERN

DESY - Deutsches Elektronen-Synchrotron

DLS - Diamond Light Source

EMBL Grenoble

ESRF

Elettra Sincrotrone Trieste

European XFEL

Fermilab

GANIL - Grand Accélérateur National d'Ions Lourds

HZB - Helmholtz-Zentrum, Berlin

IHEP - Institute of High Energy Physics

ISIS - Neutron and Muon Source

KIT - Institute of Catalysis Research and Technology

Jagiellonian University

LNLS - Brazilian Synchrotron Light Laboratory

MAX IV

PSI - Paul Scherrer Institut

S2Innovation

Synchrotron SOLEIL

Thank you for joining us !

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MOTIVATION AND AIMS

GUIs have the potential to make peoples work much easier: for developers, staff, and users

GUIs present many challenges including UX design, choice of technology, and inevitable accelerating technology evolution. There are social challenges as well, staff competences, resistance to change, etc

1st GUI Strategies Workshop in 2022 → a lot of interest and some topics to be followed-up:

- Charting, Data Decimation, Synoptics, Web application packaging, Zero/Low code GUI platforms

2nd GUI Strategies Workshop in 2023 → 50+ participants, some topics to be followed- up:

- UI Testing

This workshop aims to bring the interested people together again, in person and as a community, to share knowledge, discuss ideas, and hopefully make new connections and get inspired

This is a workshop – targeting plenty of discussion

→ please take part & share your questions, ideas, feedback, experience...

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Introduction & Workshop Overview	Stuart Fisher et al.
Auditorium, ESRF	08:30 - 08:40

European XFEL	Cammille Carinan
Auditorium, ESRF	08:40 - 08:55

Fermilab / ACORN	Madelyn Polzin
Auditorium, ESRF	08:55 - 09:10

ROCK-IT GUIs: Insights from DESY, HZB, HZDR, KIT	Zeynep Isil Isik Dursun
Auditorium, ESRF	09:10 - 09:25

ESRF	Jean-Luc Pons et al.
Auditorium, ESRF	09:25 - 09:40

CERN	Stephane Deghaye
Auditorium, ESRF	09:40 - 09:55

MaxIV	Vincent Hardion
Auditorium, ESRF	09:55 - 10:10

Elettra	Roberto Borghes
Auditorium, ESRF	10:10 - 10:25

Coffee Break - Offline Discussion	
Auditorium, ESRF	10:25 - 10:55

ALBA & Taurus Performance Improvements	Oriol Vallcorba
Auditorium, ESRF	10:55 - 11:10

ANSTO	Letizia Sammut
Auditorium, ESRF	11:10 - 11:25

GANIL	Christophe Haquin
Auditorium, ESRF	11:25 - 11:40

Diamond Light Source	David Perl
Auditorium, ESRF	11:40 - 11:55

LNLS	Ana Clara de Souza Oliveira
Auditorium, ESRF	11:55 - 12:10

Lunch	
Auditorium, ESRF	12:10 - 13:30

BEC Widgets and pyqtgraph	Jan Wyzula
Auditorium, ESRF	13:30 - 14:00

Advanced Visualisation for Tomography and Mapping	Stuart Fisher
Auditorium, ESRF	14:00 - 14:15

Web UI Testing (examples from ESRF, CERN, MAXIV & SKAO)	Axel Bocciarelli et al.
Auditorium, ESRF	14:15 - 15:30

Coffee Break - Offline Discussion	
Auditorium, ESRF	15:30 - 16:00

Daiquiri, blissdata, bluesky, and sardana	Udai Singh
Auditorium, ESRF	16:00 - 16:20

Fundamentals of Screen Design: Creating a User-Centered GUI Design for Beamlines	Zeynep Isil Isik Dursun
Auditorium, ESRF	16:20 - 16:50

Optimizing Outcomes: Integrating UX and User Feedback in Development	Madelyn Polzin
Auditorium, ESRF	16:50 - 17:20

Workshop Closeout	Chris Roderick et al.
Auditorium, ESRF	17:20 - 17:30

Technologies & Evolution Plans   **Plotting and Advanced Visualisation**   **Testing**   **Integrated Environments**   **User Experience (UX)**

Aiming to start each talk on time, but:

- **Some talks are longer than others**

- **Difficult to anticipate amount of discussion**

Will adapt scheduling according to the actual amount of discussion on a given topic.

This may mean:

- **Some talks start slightly earlier & exceed the original duration (still finishing at the scheduled time)**

- **Some discussion points need to be kept for follow-up later in the workshop (according to time available)**

Generous coffee and lunch breaks scheduled to give overflow time and offline discussion

LETS GET STARTED....