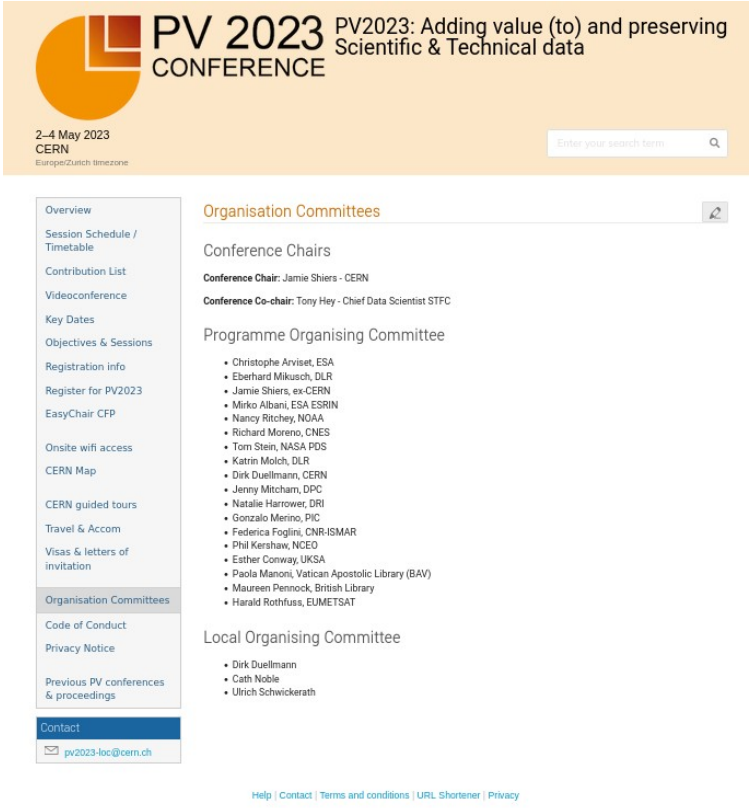

CERN

Outline

- What is PV2023 ?
  - About PV2023, Statistics ...
  - Objectives
- Selected highlights
- Next event

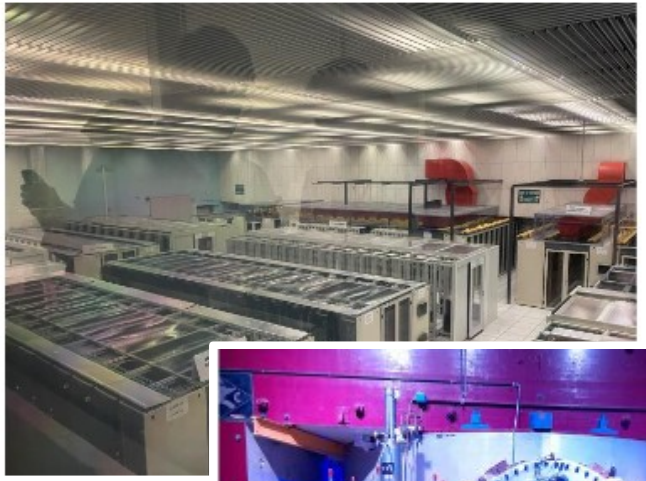


About PV2023

- Conference Chairs:
  - Jamie Shiers – CERN
  - Tony Hey – STFC
- Local organisation committee:
  - Dirk Düllmann
  - Catharine Noble
  - Ulrich Schwickerath

About PV2023

- Place: CERN
- Date: 2-4 May 2023
  - 2 half days and 1 full day
- Guided tours
  - Reserved at registration time
  - Data center visit point or
  - Synchrocyclotron



About PV2023

Opening Plenary (PV2023) | Plenary | Posters minute madness

13:00
- **Conference Venue and Registration** — *500/1-001 - Main Auditorium, CERN* — 13:00 - 13:30
- **Welcome** — *Jamie Shiers* — *500/1-001 - Main Auditorium, CERN* — 13:30 - 13:40
- **CERN: Introduction, mandate and activities** — *Joachim Josef Mnich* — *500/1-001 - Main Auditorium, CERN* — 13:40 - 14:05

14:00
- **Logistic Information** — *Dirk Duellmann* — *500/1-001 - Main Auditorium, CERN* — 14:05 - 14:15
- **[remote] Integral Archive: a new brand of science-oriented Science Archives at ESAC Science Data Centre** — *Ms Monica Fernandez Barreiro*

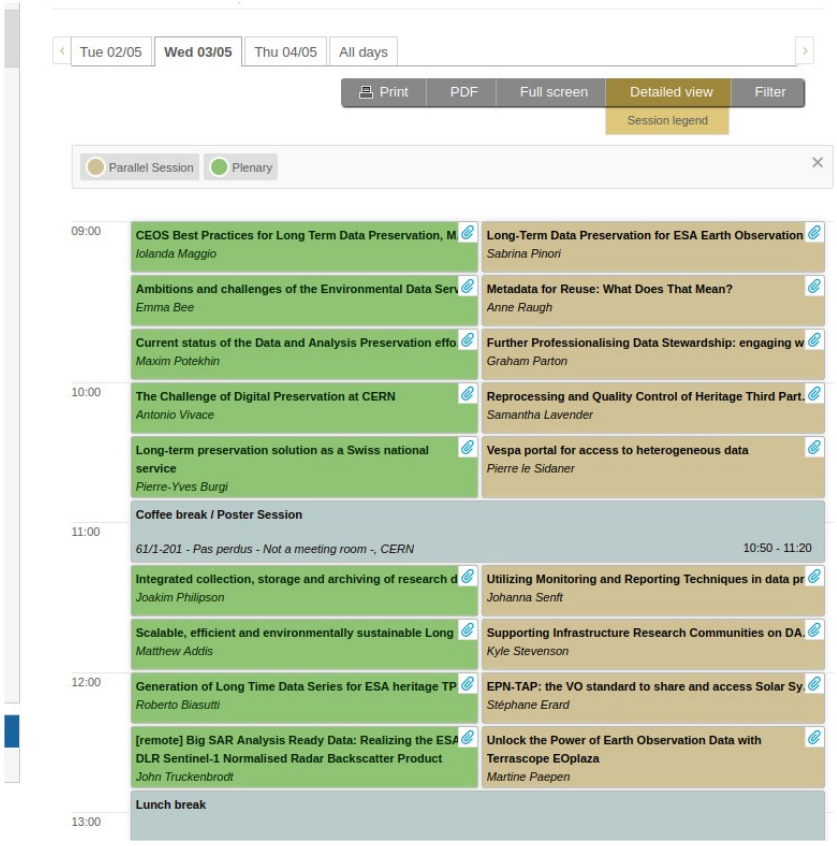
15:00
- **Operational strategies for a continuously growing public-cloud archive** — *Richard Hofmeister* — *500/1-001 - Main Auditorium, CERN* — 14:50 - 15:10
- **FAIR data and Net Zero: exploring the interactions** — *Gabin Kayumbi* — *500/1-001 - Main Auditorium, CERN* — 15:10 - 15:30
- **Coffee break / Poster Session** — *61/1-201 - Pas perdus - Not a meeting room -, CERN* — 15:30 - 16:00

16:00
- **Data Management in the petabyte era - PO.DAAC's journey to the cloud** — *Suresh Vannan* — *500/1-001 - Main Auditorium, CERN* — 16:00 - 16:30
- **[remote] AVHRR (Advanced Very High Resolution Radiometer) European Data Set Preservation and Valorization** — *Stefan Wunderle*

17:00
- **Optimized Data Access from and to a Long-term Archive for the Processing of Time Series** — *Meinhard Wolfmüller* — *500/1-001 - Main Auditorium, CERN* — 16:50 - 17:05
- **The Analyst's Notebook: Providing Context for Landed Operations and Adding Value to Mission Archives** — *Thomas Stein*
- **[video] Enabling data discovery in big datasets** — *Pilar de Teodoro*

First and last day plenaries in the main auditorium

About PV2023



Second day parallel sessions

- Main auditorium
- Council chamber

Some PV2023 statistics

- 100 registered participants on side
- 35 remote participants
- Participants from 12 countries
- 52 Oral presentations
- 24 Posters

PV2023 Participants/Organisations

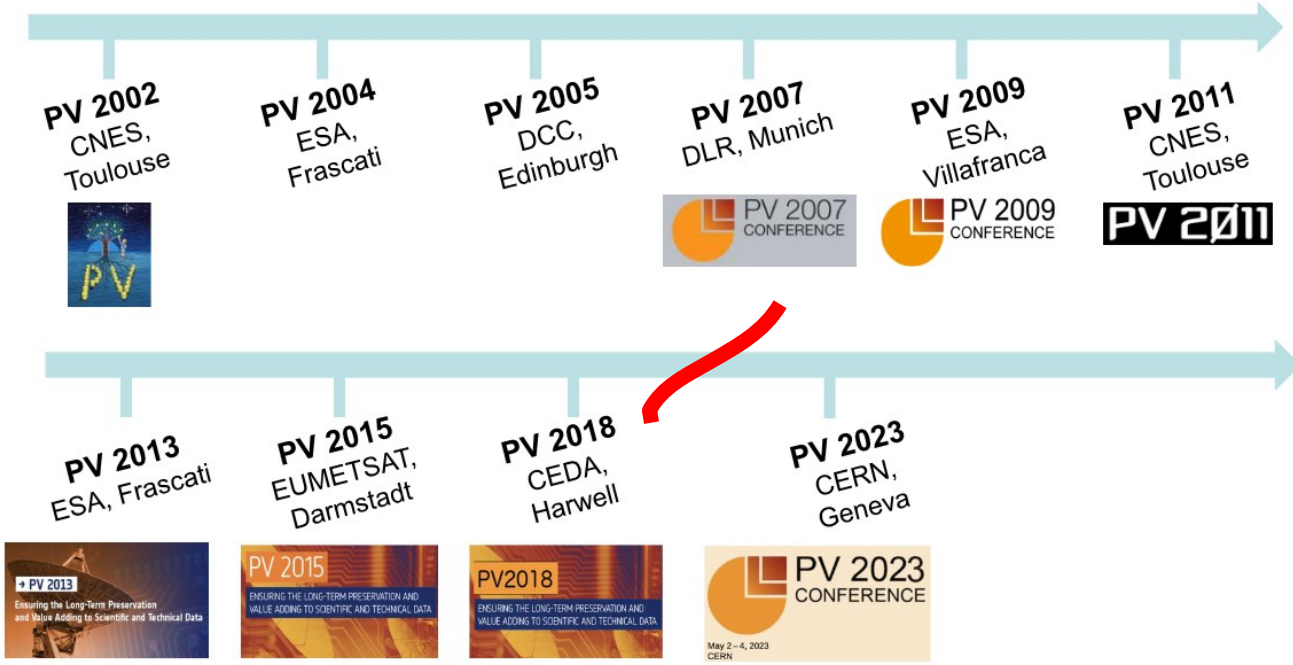
PV conferences

- 9 previous events since 2002
- Roughly every 2-3 years
  - Break between 2018-2023 due to Covid
- Contributions result in peer-reviewed publications
- For previous events, take a look at:

  http://www.alliancepermanentaccess.org/index.php/community/conferences/pv-conferences

PV conferences

The PV conference series is about ensuring **long-term Preservation and Adding Value to Scientific and Technical Data**



What is PV2023?

PV 2023
CONFERENCE

PV2023: Adding value (to) and preserving Scientific & Technical data

2–4 May 2023
CERN
Europe/Zurich timezone

Enter your search term

https://indico.cern.ch/event/1188041/

What is PV2023?

3 main themes:

- Ensuring long-term data and knowledge preservation (the "P" in PV)
- Adding value to data and facilitation of data use (the "V" in PV)
- Challenges of incorporating complex policy, technology, standards and principles in Open Data Environments

What is PV2023?

Objectives

The primary objectives continue to be the sharing of experiences and emerging issues regarding the long-term preservation, re-use and sharing of scientific (and associated) data.

The update of the OAIS reference model (ISO 14721), the various Certification methodologies, requirements from Funding Agencies (FAs) for (FAIR) Data Management Plans, together with technological changes / challenges are all relevant discussion points.

Of particular interest are experience and position papers from Large Scale Multi-National projects but all papers / posters that address the above issues and / or the traditional topics of PV are welcome.

Given that for many disciplines, e.g. those that make "observations" (by definition unique and un-repeatable), the very (very) long term is of interest. In addition, the possibility of finding synergies, even across seemingly disparate disciplines, and which could eventually result in significant cost savings, is clearly of importance.

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OAIS = Open Archival Information System

FAIR principles

- Findable
- Accessible
- Interoperable
- Reproducible

https://www.go-fair.org/fair-principles/

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What is PV2023?

- Open to a fairly large range of possible topics and communities
  - Data preservation following best practices (FAIR, ISO standards, ...)
- Clear overlap with goals of data preservation in HEP
- Albeit different communities
  - With somewhat different issues
- Finding Synergies

(selected) Highlights

Addressing the challenges of research data management, reuse and collaboration: the case for CERN Analysis Preservation and FAIR data services

- CERN on the way to Open Science
- Products provided and used by HEP
- Focus on analysis preservation

S. Dallmeier-Tiessen

(selected) Highlights

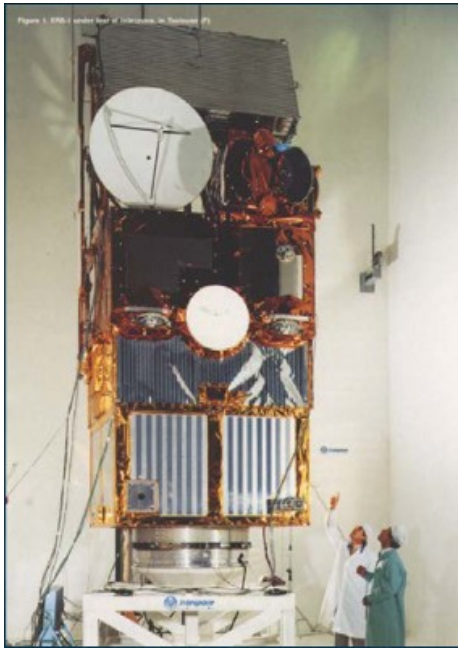
Posters minute madness Presentation

- Speakers were contributors of Posters
- 1min time to present the highlights of their contribution
- Both on site and remote presentations

(selected) Highlights

Valorization and Curation of the ESA ERS Missions

- ERS1 (1991-2000) and ERS2 (1995-2011) satellite missions
- Recovery of recorded data from sites all over the world
  - On different tape media
  - Not everything recoverable due to missing readers
- Combination with other mission data allows to e.g. estimate the speed of glacier melting



M. Albani

(selected) Highlights

Scalable, efficient and environmentally sustainable Long Term Digital P reservation of scientific datasets in the ARCHIVER project

Archiving and Data Preservation Services using cloud services available via the European Open Science Cloud (EOSC)

- Digital preservation award 2022
- Mentioned in several talks

M. Addis

Yale

(selected) Highlights

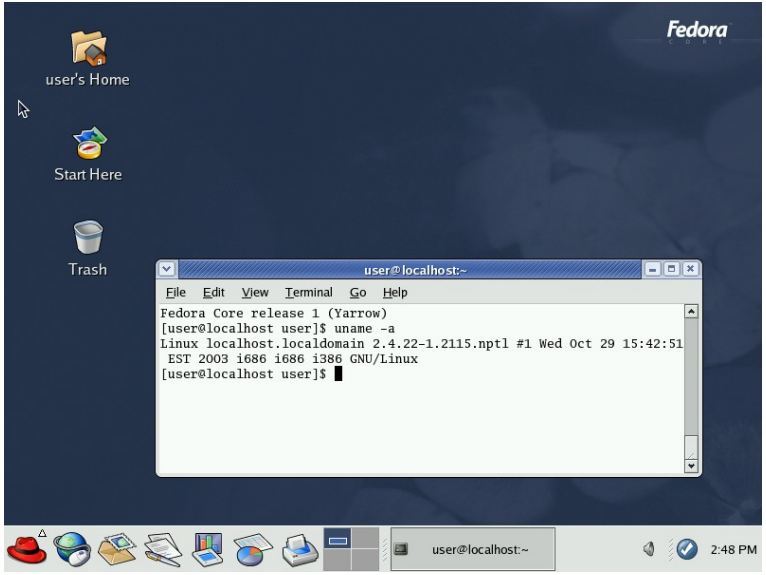
Supporting the reproducibility of software-dependent research

Emulation as a Service

https://www.eaasi.info/

Supports quite old OS versions

E.Cochrane



Environments

Emulators

Feedback

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Environments

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	Name ↑	Actions
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☐	Fedora 1 Base V1	Choose action
☐	Fedora 7 Base V1	Choose action
☐	Mandrake 8.0 - Base V1	Choose action
☐	Mandrake Linux 5.1 - Base V1	Choose action
☐	Open SUSE 10.2 Base V1	Choose action
☐	OpenSolaris 2009.06	Choose action
☐	Red Hat 6.2 - Base V1	Choose action
☐	Red Hat 8.0 - Base V1	Choose action
☐	Red Hat 9.0 - Base V1	Choose action
☐	Scientific Linux 3.0.1 - Base V1	Choose action
☐	Scientific Linux 6.0 - Base V1	Choose action

Next PV event

- Hosted by ESA/ESAC
- In May 2026
- Villanueva de la Cañada
  - 25km from Madrid

Conclusions

- Very interesting event
  - Well appreciated
  - Many fascinating talks and posters
- International
- Cross-field
  - Albeit dominated by space exploration

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