



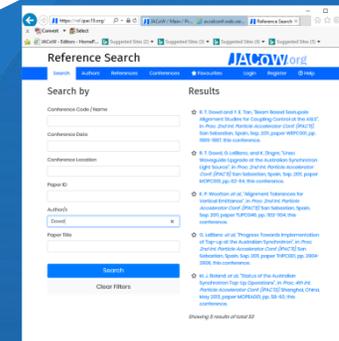
IPAC'19 JACoW Developments

Impacts and outcomes:

Reference Search & Cat Scan Validator

Presented by

Josh Peters from ANSTO



Science. Ingenuity. Sustainability.

Introduction

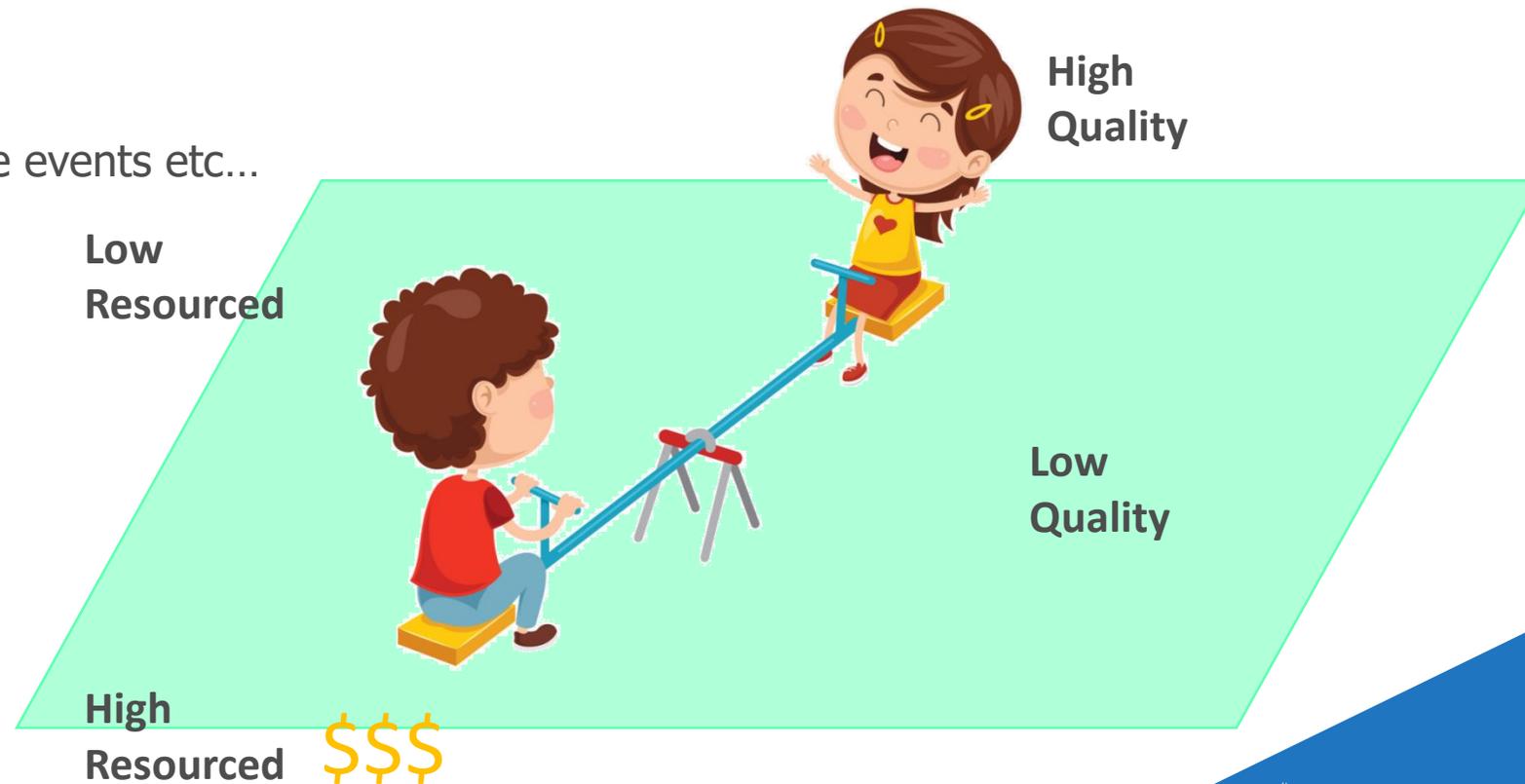
- Josh Peters
- Senior Application Developer in IT
- ANSTO (Australian Nuclear Science and Technology Org.)
- Primary Developer on the Reference Database
- Hosted IPAC'19 – Melbourne, Australia
- Representing David Button

Resource Draining Problems

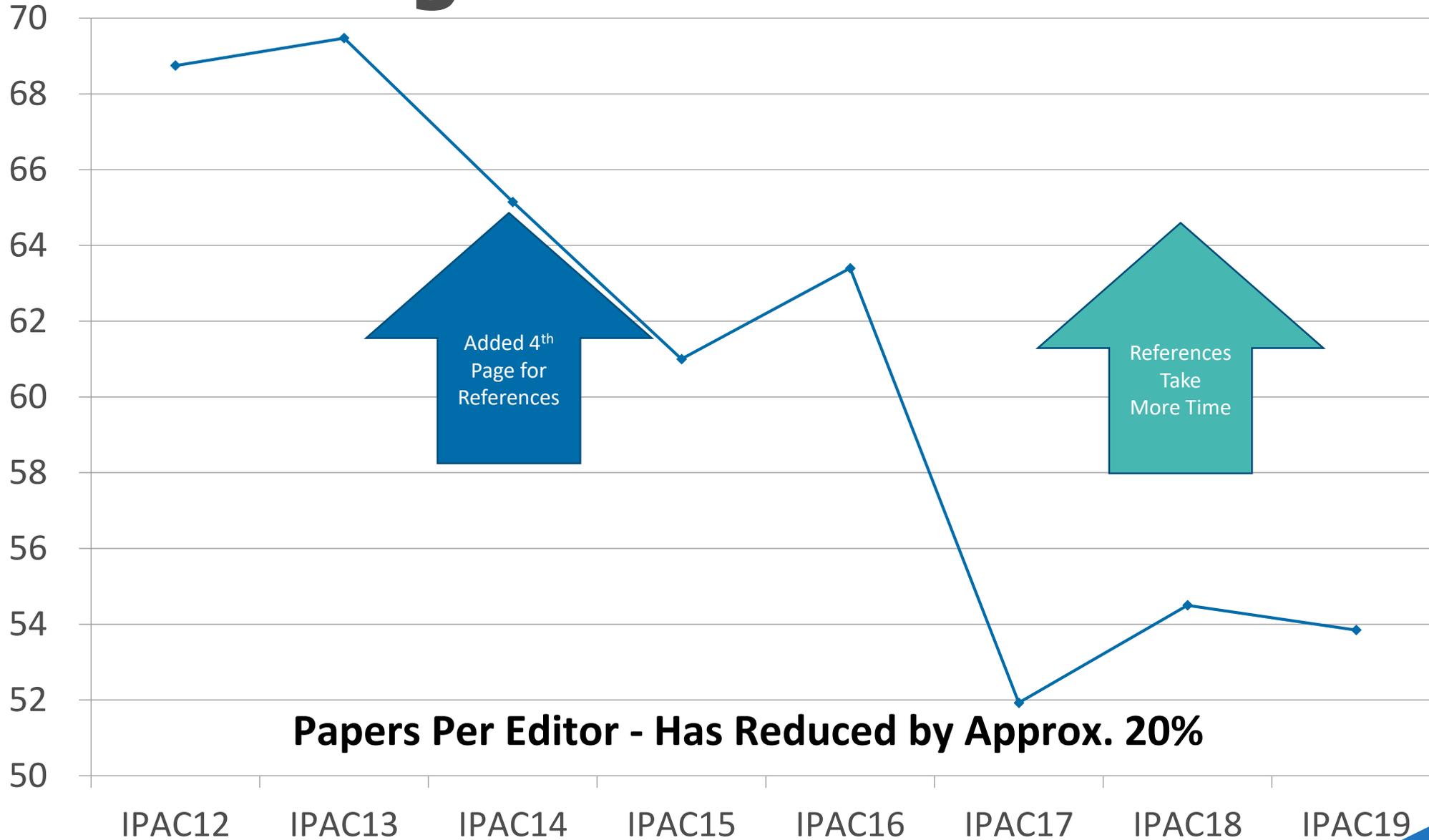
High Quality Proceedings = Resource intensive

Cost Per Editor

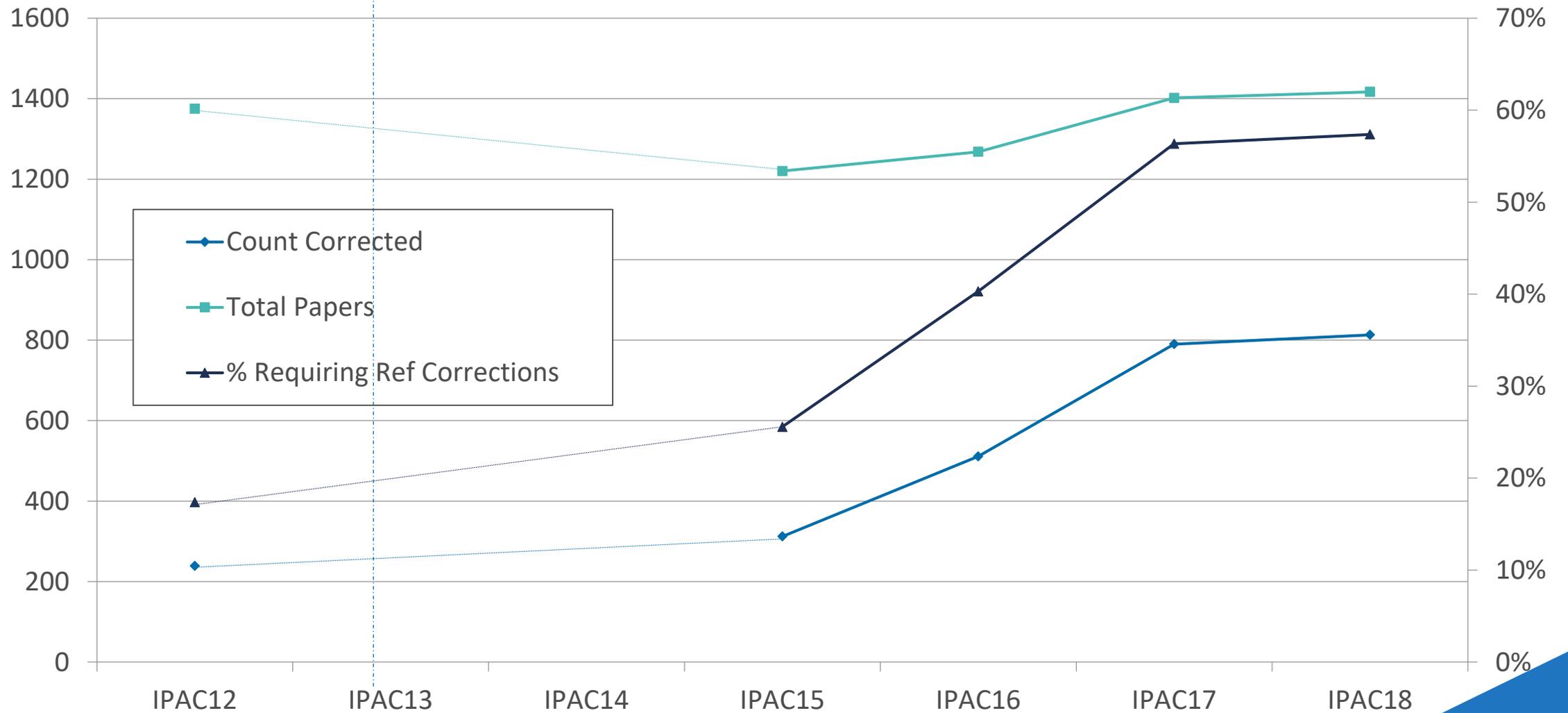
- \approx \$3,100 AUD for IPAC'19
 - Inclusive of workstation hire, delegate events etc...
 - 29 editors for IPAC18 & 19



Resourcing Trend



Reference Edits



Rohan DOWD



Context

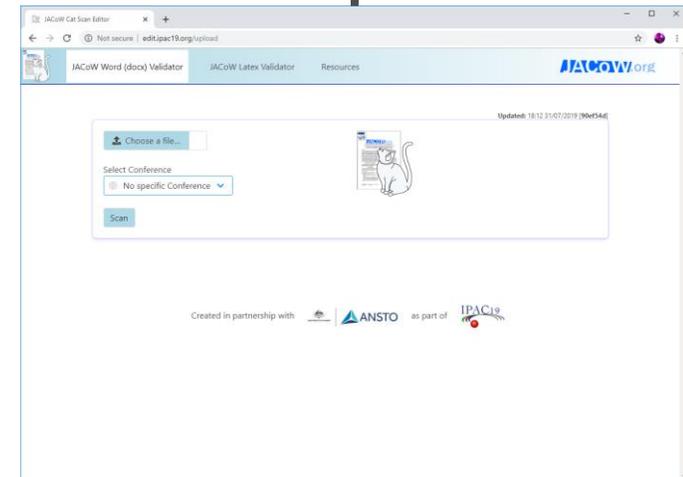
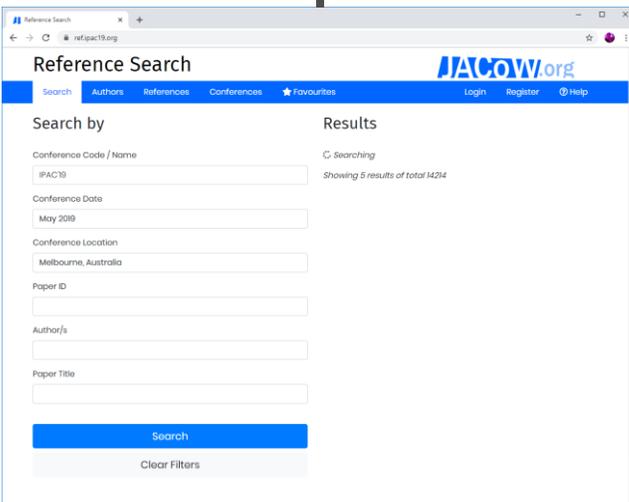
David Button



Josh Peters



Rosemary Waghorn



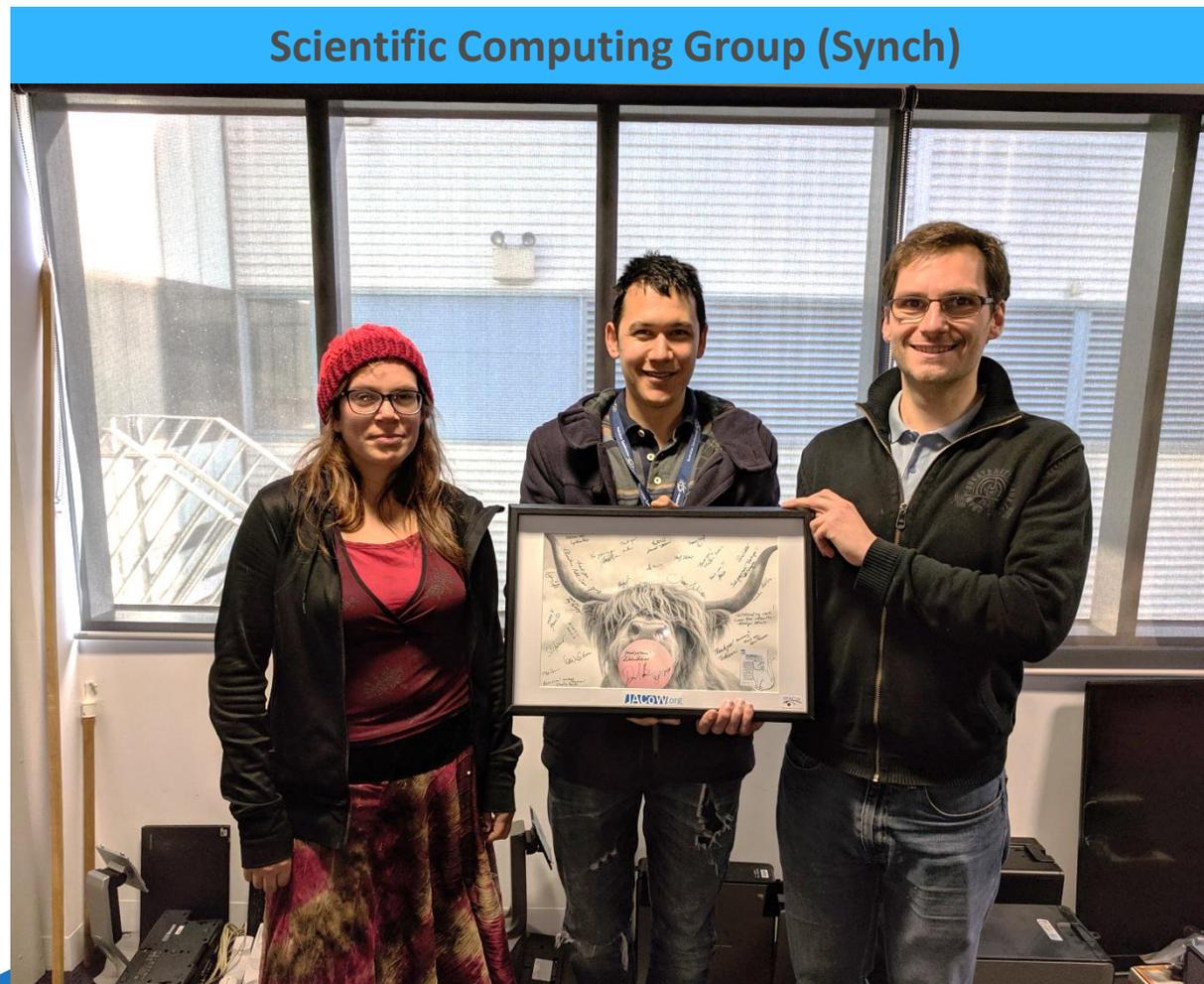


Cat Scan

Goals, successes, and future possibilities

Science. Ingenuity. Sustainability.

2. Better Paper Preparation



Rosemary Waghorn

Alex Palma

Andreas Moll

Goals

- Improve quality of submitted papers
- Reduce the time taken to QA papers
- Quick and easy to use
- For both editors and authors
- Educate authors
- Cover as many formatting requirements as possible
- Primary focus on Word
- Compare ID, Title & Author to SPMS data

JACoW Cat Scan Editor

JACoW Cat Scan Editor

Not secure | edit.ipac19.org/upload?filename=MOPTS008.docx

JACoW Word (.docx) Validator | JACoW Latex Validator | Resources

Updated: 18/12/31/07/2019 (90ef54d)

Choose a file...

Select Conference
IPAC19

Scan

Report for MOPTS008.docx

[Link to DOCX Cat Scan Editor - Help and Usage Guidelines](#)

Summary

- ✓ JACoW Styles
- ✓ Page Size and Margins
- X Languages - Language Issues
- ? Parsed Document (67)
- ✓ Title
- ✓ Author
- ✓ Abstract Heading
- ✓ Headings (8)
- X Paragraphs (37) - Paragraph Issues
- X References (4) - Reference Issues
- X Figures (7) - Figure Issues
- ✓ Tables (0)
- X SPMS (IPAC19) Abstract Title Author Check - SPMS Abstract Title Author Check Issues

Word Document loaded successfully

19.org/upload?filename=MOPTS008.docx

JACoW Latex Validator | Resources

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- ✓ References (4)
- ? Figures (7)
- ✓ Tables (0)
- ✓ SPMS (IPAC19) Abstract Title Author Check

Updated: 18:12 31/07/2019 [90ef54d]

Choose a file...

Select Conference

No specific Conference

Scan



JACoW Cat Scan Editor

Features

- Check for JACoW Styles and Template usage
- Check Paper and Margin Settings
- Check Proofing Language Settings of Content
- Checks Formatting of Paper Title
- Checks Formatting of Author List
- Checks Presence of Abstract
- Checks Section, Sub-section, and Third Level Heading Formatting
- Checks Paragraphs have initial indent and aligned justified
- Searches Document for, Existence, in Text Reference, Sequential Order, Missing, and Duplicated References
- Searches Document for, Existence, in Text Reference, Sequential Order, Missing, and Duplicated Figures
- Searches Document for, Existence, in Text Reference, Sequential Order, Missing, and Duplicated Tables
- Checks Formatting of Figure Captions
- Checks Formatting of Figure Tables
- Checks Paper Title Against SPMS Abstract Title
- Checks Author List Against SPMS Abstract Author List



Generate instant feedback reports to educate authors, and to assist editors.

Top | Prev | Next

X References (13) - Author Help for References

Rules for References

Use Breakdown for References

No.	Text		Used	Order	Unique
1	[1] E. Esarey, C.B. Schroeder, and W.P....	URLs and DOIs should be Liberation Mono and size 8pt	X	✓	✓
2	[2] M. K. Weikum et al., "Status of the...		✓	✓	✓
3	[3] K. Floettmann, "Some basic features of the...	URLs and DOIs should be Liberation Mono and size 8pt	X	✓	✓
4	[4] T. Mehrling, J. Grebenyuk, F. S. Tsung, K. ...		✓	✓	✓
5	[5] K. Floettmann, "Adiabatic matching section...		✓	✓	✓
6	[6] I. Dornmair, K. Floettmann, and A. R. ...	URLs and DOIs should be Liberation Mono and size 8pt	X	✓	✓
7	[7] X. L. Xu et al., "Physics of phase space...	URLs and DOIs should be Liberation Mono and size 8pt	X	✓	✓
8	[8] X. Li, A. Chancé, and P. A. P. Nghiem, ...	URLs and DOIs should be Liberation Mono and size 8pt	X	✓	✓
9	[9] P. A. P. Nghiem et al., "EuPRAXIA, a Step...		✓	✓	✓
10	[10] D. Uriot and N. Pichoff, "Status of...	URLs and DOIs should be Liberation Mono and size 8pt	X	✓	✓
11	[11] X. Li, A. Mosnier, and P. A. P. Nghiem, ...	URLs and DOIs should be Liberation Mono and size 8pt	X	✓	✓
12	[12] X. Li, P. A. P. Nghiem, and A. Mosnier, ...		✓	✓	✓
13	[13] J.-L. Vay, C. G. R. Geddes, E. Esarey, C. ...		✓	✓	✓

Style Breakdown for References

Text	Style					
	Text Style Name	Alignment	Font Size	Space Before	Space After	First Line Indent

Online Help: <http://www.jacow.org/Authors/CSEHelp>

Results

Successes

- Covers most formatting errors
- Inconsistences between SPMS and Paper quickly identified
- Quick, consistent quality first pass

Challenges

- Some tests were infeasible given development time and effort
- Variants in formatting practises of Authors

Maintenance and the future

- Changing JACoW formatting requirements
- Possibility to integrate with SPMS/Indico upload
 - Summary of possible problems to the author
 - Conference lists for Paper Title / Author Checks
- Addition of missing tests and improvements
- Fix minor issues instead of just reporting



Reference Search

Goals, successes, and future possibilities

Science. Ingenuity. Sustainability.

Goals

- Reduce the time taken to QA papers
- Output correctly formatted references
- Help both editors and authors
- Collate as much of the JACoW catalog as possible
- Quick and easy to use
- Easy for administrators to update
- Current conference papers available

What we had

BIW | '12 | '10 | '08
COOL | '19 | '17 | '15 | '13 | '11 | '09 | '07
Cyclotrons | '16 | '13 | '10 | '07 | '04 | '01 | '98 | '95 | '92 | '89 | '86 | '84 | '81
DIPAC | '11 | '09 | '07 | '05 | '03 | '01 | '99
ECRIS | '18
EPAC | '08
FEL | '17 | '12 | '04
HIAT | '15 | '12 | '09
IBIC | '18 | '17 | '16 | '15 | '14 | '13 | '12
ICALEPS | '17 | '15 | '13 | '11 | '09 | '07 | '05 | '03 | '01 | '99
ICAP | '18 | '15 | '12 | '09 | '06
IPAC | JACoW / Proceedings | FEL2013 Proceedings | APAC 2007 - Contributions | APAC 2007 - Contributions |
LINAC |
MEDSI |
NA-PAC |
PAL |

LIST OF CONFERENCES

European XFEL Injector Commissioning Results 1 / 5

38th International Free Electron Laser Conference FEL2017, Santa Fe, NM, USA
ISBN: 978-3-95450-179-3 doi:10.18429/JACoW-IPAC17

EUROPEAN XFEL INJECTOR COMMISSIONING RESULTS

B. Beutner¹, DESY, Hamburg, Germany
on behalf of the European XFEL Accelerator Consortium and Commissioning Team

Abstract
In the first commissioning run of the European XFEL, the SASE FEL driver for the injector was operated at a repetition rate of 4.5 MHz. The generation of sub-picosecond electron bunches with a peak current of 200 A and an emittance of 0.1 nm-rms was achieved. Of particular interest is the operation of long bunch trains with up to 2700 bunches with a 4.5 MHz repetition rate. In this presentation we will provide an overview of our experiences from the injector commissioning run including beam dynamics studies, diagnostics, and system performance.

Figure 2: Time structure of the European XFEL. As visualised in Fig. 2 trains of up to 6000 bunches.

PAPER ID and PDF

JACoW.org

Home | Proceedings | **Authors** | Organizers/Editors | JACoW Team | About | Contacts

Formatting Citations

Basics
JACoW is using a reference style that is based on "IEEE Transactions, Journals, and Letters" (IEEEtran) [1]. These are the recommendations for citations/references (see ANNEX B [2]).

- References are cited numerically.
- Every reference gets a separate number entry.

CITATION STYLE GUIDE

- Use of one reference number to designate a group of references is not allowed.
- Use "et al." when more than six author names are given.
- URLs should appear at the end of references.
- References should include enough relevant information for readers to find them.
- References should be listed as concisely and consistently as possible throughout a paper.

Author Listing
Careful attention should be given to the placing of commas and the use of 'and' in the author list. In particular, for the case of six or more authors (as in ANNEX B Ref. [3]), a comma also follows the penultimate author. The preference for "et al." takes precedence when the number of authors becomes large (e.g., >6).

FEL2013: Proceedings of the 35th International Free-Electron Laser Conference

FEL 2013
35th International Free-Electron Laser Conference
August 26-30, 2013
Mammoth Marquis
New York, NY, USA

COMMITTEES
ATTENDEES
CONFERENCE PHOTOGRAPHS

Index of papers by:
SESSION
CLASSIFICATION
AUTHORS
INSTITUTES
KEYWORDS

was organized by Brookhaven National Laboratory and held in Manhattan, NY, USA, from August 26-30 2013

THPMA043.PDF - Adobe Acrobat Reader DC

682 (1 of 3) 82.4%

Page Thumbnails

THPMA043 APAC 2007, Raja Ramanna Centre for Advanced Technology (RRCAT), Indore, India

DEVELOPMENT OF 3 MeV, 30 kW DC ELECTRON ACCELERATOR AT EBC, KHARGHAR

K.C. Mittal, K. Nam, A. Jain, K.V. Nagel, S. Acharya, G.P. Puthran, R.I. Balakrishna, P.C. Saroj, D.K. Sharma, R.N. Raja, M. K. Kumar, S.K. Srivastava, A.S. Chavala, A.R. Chandra, S.R. Ghosh, D. Jayaraman, Malendra Kumar, Ramesh Babu, B.L. Bhowmik

Abstract
A 3 MeV, 30 kW DC electron accelerator has been developed at EBC, Kharghar, Mumbai. The electron gun is accelerating to 3 MeV.

Author: K.C. Mittal, S. Acharya, R. Agaswal, R. Barwal, D.P. Chakravarthy, A.S. Chavala, A.R. Chandra, S.R. Ghosh, B.S. Israel, A. Jain, D. Jayaraman, Malendra Kumar, Ramesh Babu, B.L. Bhowmik

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Number of Pages: 3
Tagged PDF: No
Fast Web View: No

METADATA inside PDF



Help we received

Matt Arena
 Fermilab



Ronny Billen



Volker Schaa



David Button(CAS)



Josh Peters (IT)



Todd Satogata
 Jefferson Lab



Jan Chrin



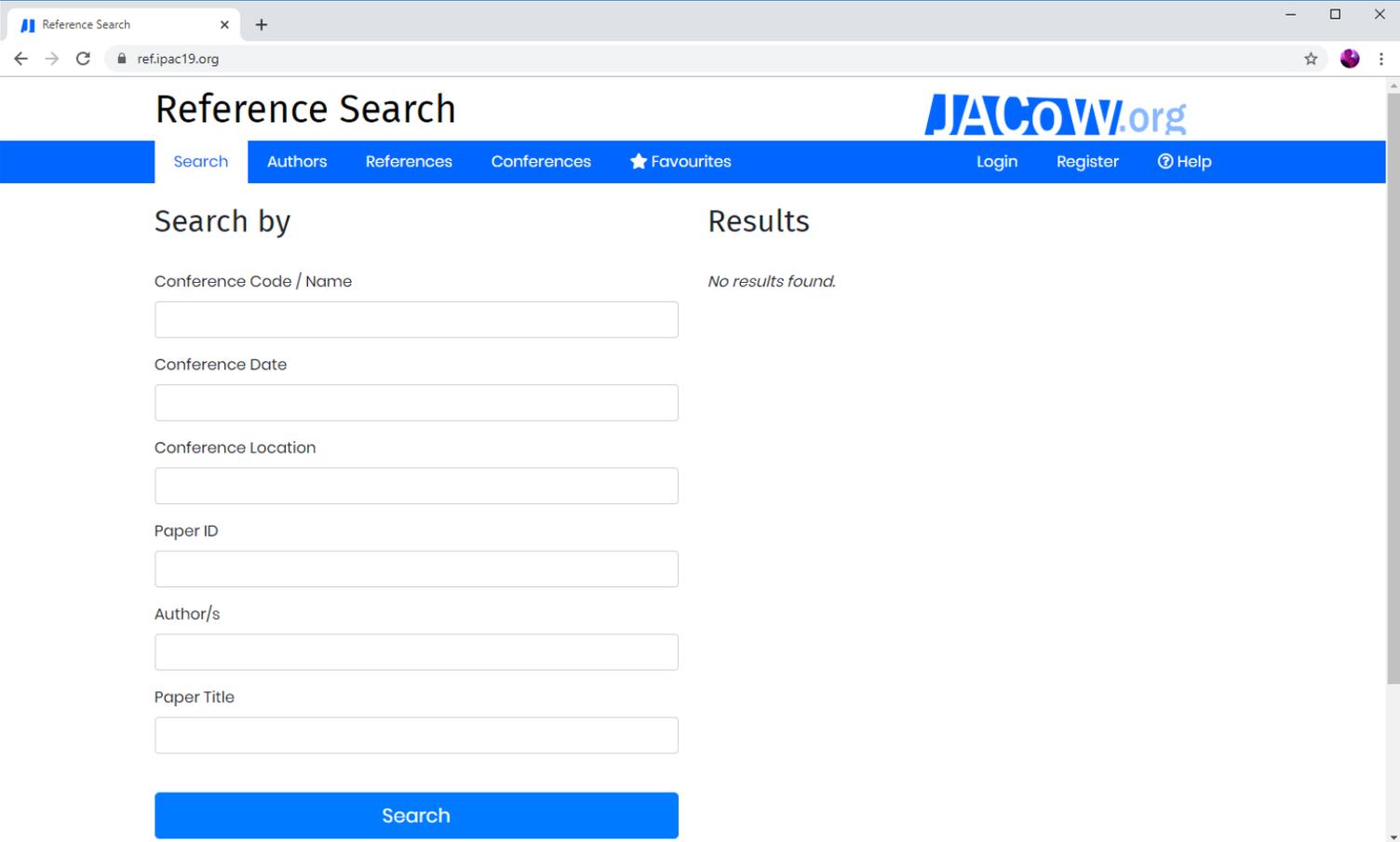
Ivan Andrian



- ✓ Directory listing for all historical papers
- ✓ Conference names, dates and locations
- ✓ Export from SPMS
- ✓ Citation formatting help
- ✓ LaTeX help
- ✓ Positive and constructive feedback

Demo

<https://ref.ipac19.org>



The screenshot shows a web browser window with the URL <https://ref.ipac19.org>. The page title is "Reference Search" and the logo "JACOW.org" is visible in the top right. The navigation menu includes "Search", "Authors", "References", "Conferences", "Favourites", "Login", "Register", and "Help". The "Search by" section contains several input fields: "Conference Code / Name", "Conference Date", "Conference Location", "Paper ID", "Author/s", and "Paper Title". A blue "Search" button is located at the bottom of the form. The "Results" section displays the message "No results found."



Search Google or type a URL



Tours



Projects



ANSTO



Reference Sea...



Reference Sea...



Reference Sea...



Add shortcut

Results

- ~68,000 referenced papers
- 225 conferences
- Updates from SPMS

As of Nov 2019

Some data issues

- Best effort data extraction
- ~28% page numbers unknown
- ~1% paper author's unknown

<https://www.jacow.org/Authors/HowComMissingInfoRT>

The screenshot shows a web browser window displaying the JACoW.org Reference Search page. The page has a blue header with the JACoW.org logo and navigation links: Search, Authors, References, Conferences, Favourites, Login, Register, and Help. A pink warning box is present, stating: "Warning: The page numbers could not be added automatically for this paper. You must provide the page numbers from the original proceedings which is located at JACoW.org, and substitute 'pp. XX-XX' with the correct page numbers. * Please report these numbers by clicking on the 'Fix a problem' button as an Admin will be able to update this reference for future results." Below the warning, there is a "Reference" section with a "Fix a problem" button. The "For Word" section contains a text box with the following citation: "[n] X. Altuna et al., "The SPS as Lead-Ion Accelerator", in Proc. 5th European Particle Accelerator Conf. (EPAC'96), Sitges, Spain, Jun. 1996, paper THP0216, pp. XX-XX." The "For LaTeX" section contains a text box with the following LaTeX code:

```
\cite{Altuna:EPAC96-THP0216}
\bibitem{Altuna:EPAC96-THP0216}
X. Altuna \emph{et al.},
\textquotedblleft{The SPS as Lead-Ion Accelerator}\textquotedblright,
in \emph{Proc. 5th European Particle Accelerator Conf. (EPAC'96)}, Sitges, Spain, Jun. 1996, paper THP0216, pp. XX-XX.
```

 Below the LaTeX code, there is a link "Use Abbreviated Form". At the bottom of the page, the word "Metadata" is visible.

Usage

All Users
100.00% Page Views

+ Add Segment

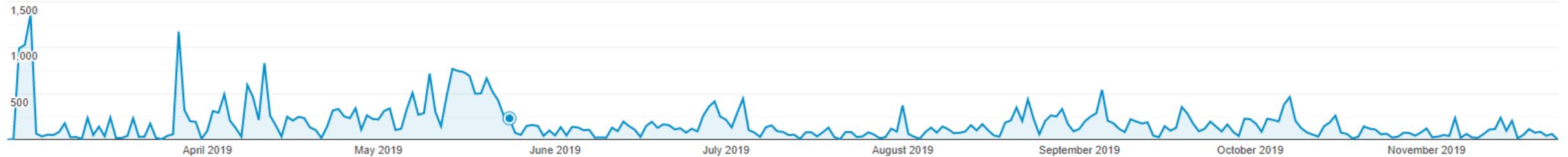
25 Feb 2019 - 24 Nov 2019

Overview

Page Views VS Select a metric

Hourly Day Week Month

Page Views



Page Views

48,209

Unique Page Views

31,868

Avg. Time on Page

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Bounce Rate

35.40%

% Exit

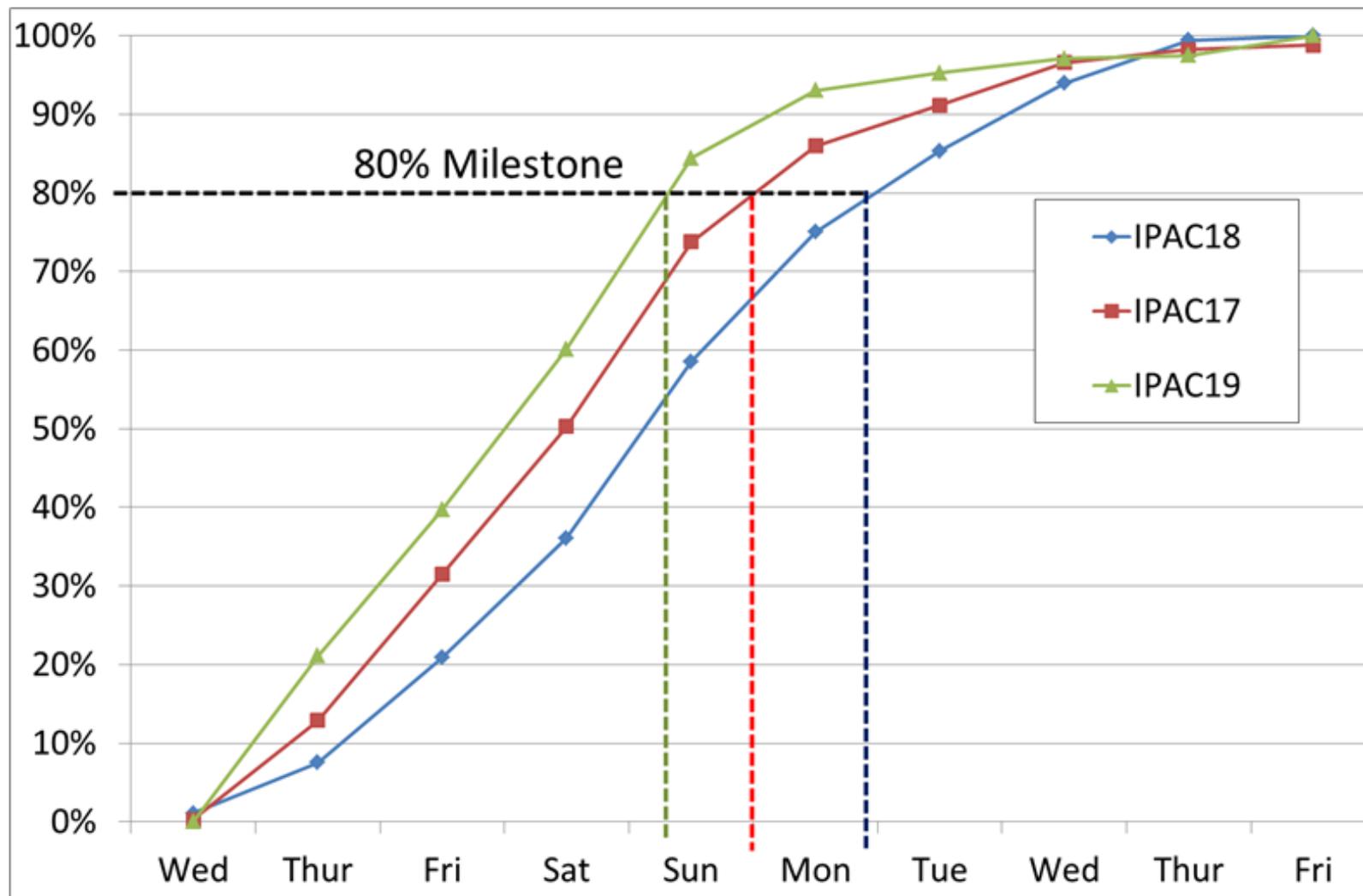
19.52%

Future Possibilities

- BibTeX
- Link to PDF
- Keywords
- Exporting favorites
- Community corrections
- Abstract only / Posters / Presentations
- Non-JACoW Registered DOIs



Results



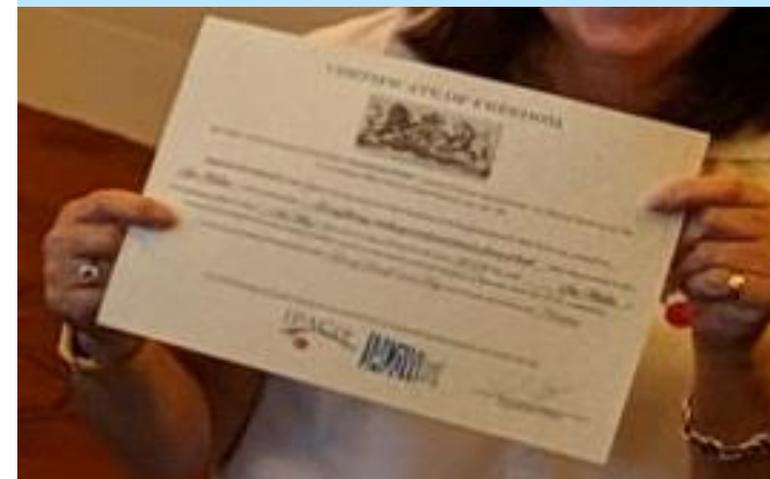
IPAC18
29 editors
~1400 Papers
80% @ Mon Night

IPAC19
29 editors
~1350 Papers
80% @ Sun Morning

Freedom Earlier!



Certificate of Freedom



Going Forward

- ANSTO is happy to:
 - Operate & Support
 - Open Source (Cat Scan & Reference Database)
 - Collaborate through GitHub
- Volunteer administrators
- Strategy for further development
- Josh: jdp@ansto.gov.au
- Rosemary: rosemarw@ansto.gov.au
- Permanent URL / Home (not ref.ipac19.org / edit.ipac19.org)

Thanks

