



**Chair's Report
and
Report on the Work of the Board of Directors
2023**

Meghan McAteer (HZB), Johan Olander (ESS), Volker Schaa
On behalf of the JACoW BoD

10th JACoW Stakeholders' Meeting, IPAC'23, Venice, Italy

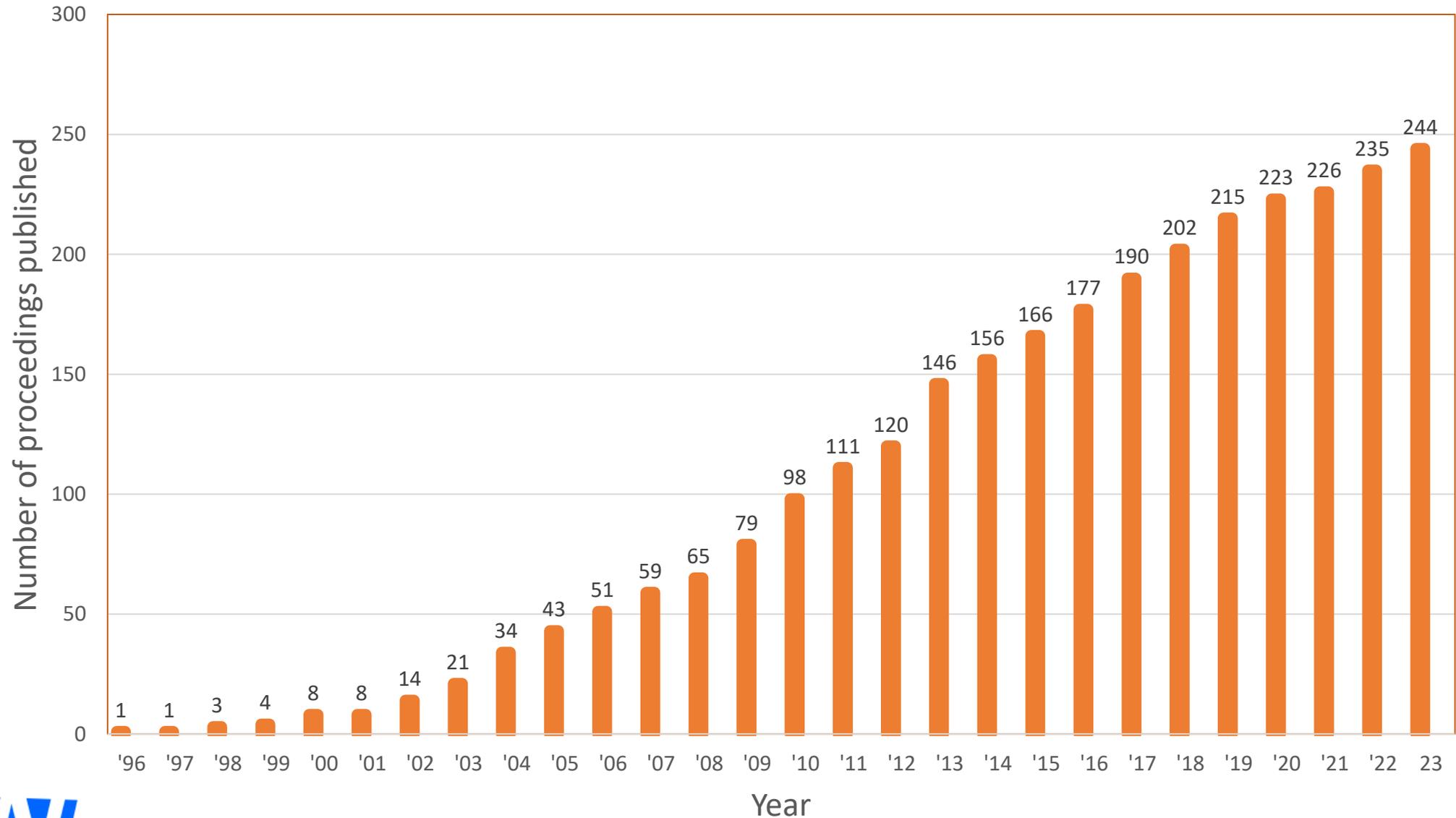
Agenda

- Updates from the last year
- Status of the SPMS to Indico transition
- Collaboration needs for sustainability

Summary of Activities since 2022 SHM

Proceedings trend

Nine sets of proceedings published since last Chair's Report (IPAC'22, ECRIS'20, HIAT'22, LINAC'22, SRF'21, NA-PAC'22, IBIC'22, PCaPAC'22, eeFACT'22)



JACoW currently includes proceedings from 18 member conferences:

BIW

COOL

CYCLOTRONS

DIPAC

ECRIS

FEL

HIAT

ICALEPCS

ICAP

ICFA ABDW (HB, ERL, eeFACT, FLS, HF, Ecloud, Factories)

IPAC

LINAC

MEDSI

NA-PAC

PCaPAC

RuPAC

SAP

SRF

JACoW Team

Chair	Meghan McAteer, HZB
Deputy Chair	Robert Apsimon, Lancaster University/Cockcroft
Coordinator	Jana Thomson, TRIUMF
Directors	Thakonwat Chanwattana, SLRI Johan Olander, ESS Volker Schaa, GSI
Regional Support Manager for Asia-Pacific	Takashi Kosuge, KEK (SPMS)
Regional Support Manager for Europe, Middle East and Africa	Ronny Billen, CERN (SPMS) Jan Chrin, PSI (filesaver)
Regional Support Manager for the Americas	Anthony Cuffe, JLAB (filesaver)
Repository Manager	Magdalena Montes-Loera, SLAC
JACoW.org Webmaster	Stefano Deiuri, Elettra Sincrotrone Trieste
JACoW.org Content Manager	Petr Anisimov, LANL
Proceedings Maintenance	Europe: Ronny Billen, CERN Asia: Kazuro Furukawa, KEK
SPMS Support and Development	N/A
Indico Support and Development	Adrian Mönlich, CERN Pedro Ferreira, CERN Duarte Galvão, CERN
Co-Opted Team Members	Evelyne Akers, Jefferson Lab Lin Bian, IHEP Beijing Stefano Deiuri, Elettra Sincrotrone Trieste Caitlin Hoffmann, BNL Vincent Mitts, CAMD/LSU Magdalena Montes-Loera, SLAC Raphael Mueller, GSI Josh Peters, ANSTO Alumnus Christine Petit-Jean-Genaz, CERN Contributing Retiree John Poole, JP Scientific/CERN Akihiro Shirakawa, KEK Toshinari Tanaka, LEBRA Heping Yan, SINAP

COOL	Maksim Kuzin, BINP ('21) Editor not yet known ('23)
CYCLOTRONS	Joele Mira, iThemba and Garrett De Villiers, iThemba ('19) Pengzhan Li, CIAE ('22)
EBIST	Jana Thomson, TRIUMF ('22)
ECRIS	Amy McCausey, FRIB ('20) Mainak Bandyopadhyay ('22)
FEL	Michaela Marx, DESY ('19) Ivan Andrian, Elettra Sincrotrone Trieste ('22)
HIAT	Lu Li, IMP CAS ('18) Volker Schaa, GSI ('22)
IBIC (Formerly DIPAC/BIW)	Renan Picoreti, LNLS ('20) Jaeyu Lee, PAL ('21) Grzegorz Kowalski, Solaris ('22) Michael Bree, CLS ('23) Lu Li, IMP CAS ('24)
ICALEPCS	Zhichu Chen, SINAP ('21) Vivienne Rowland, SARAO, and Marie Robichon, ESRF ('23) Kelly Jaje, ANL ('25)
ICAP	Pavel Snopok, IIT ('18) Volker Schaa, GSI ('22)
ICFA Advanced Beam Dynamics Workshop (HB)	Marko Mambelli, FNAL and Volker R. Schaa, GSI ('21) Massimo Giovannozzi and Anton Lechner, CERN ('23)
ICFA Advanced Beam Dynamics Workshop (ERL)	Meghan McAteer, HZB ('19) Karl Smolenski, Cornell ('22)
ICFA Advanced Beam Dynamics Workshop (eeFact)	YingYing Li, HKUST ('18) Massimiliano Iungo, LNF ('22)
ICFA Advanced Beam Dynamics Workshop (FLS)	Xin Han, SINAP ('18) Jan Chrin, PSI ('23)
IPAC	Renan Picoreti, LNLS ('21) Thakonwat Chanwattana and Nawin Juntong, SLRI ('22) Ivan Andrian, Elettra ('23) Petr Anisimov, LANL (Scientific secretariat) ('24)
LINAC	Robert Apsimon, Lancaster University/Cockcroft ('20) Robert Apsimon, Lancaster University/Cockcroft ('22) Kelly Jaje, ANL ('24)
MEDSI	Kelly Jaje, ANL ('20) Lu Li, IMP CAS ('23)
NA-PAC	Amy McCausey, FRIB ('19) Petr Anisimov, LANL ('22)
PCaPAC	Yung-Sen Cheng, NSRRC ('18) Purbaj Pant, ELI Beams ('22)
RUPAC	Maxim Kuzin, Novosibirsk (<i>permanent</i>)
SAP	Lu Li, IMP CAS (<i>permanent</i>)
SRF	Volker Schaa, GSI ('19) Anastasia Lesage, FRIB ('21) Paul Thomas, FRIB ('23)



Board of Directors

Meghan McAteer, HZB (Chair, 2022-2024)

Rob Apsimon, Lancaster U./Cockcroft (Deputy Chair, 2023-2025)

Jana Thomson, TRIUMF (Coordinator, 2022-2024)

Thakonwat Chanwattana, SLRI (2023-2025)

Johan Olander, ESS (2020-2025)

Volker Schaa, GSI (2023-2025)

Big thanks to David Button (ANSTO) and Regis Neuenschwander (LNLS), outgoing board members

Labs providing infrastructure and services



- Proceedings Repository & Search
- Paper File Server for EMEA and Australasia (formerly at PSI)
- Central Repository (Accounts and Profiles)
- SPMS Regional Support Centre for Europe
- JACoW Indico



- Proceedings server
- SPMS Regional Support Centre for Australasia
- SPMS Regional Support Centre for Americas



- Paper File Server for the Americas



Elettra Sincrotrone Trieste

- JACoW.org Website Hosting
- CWS tools, CAT tools
- Indico documentation pages



- Reference Search Tool
- Cat Scan Tool

Highlights from JACoW Team Meeting 2022

- Report about experience with remote/hybrid editorial teams -> not a viable approach!
- Need for reprocessing of some old proceedings to ensure long-term archival storage
- Documentation about JACoW-Indico on github -> each conference series is encouraged to maintain their own version
- Policy changes
 - Hyperlinks to DOIs will be allowed
 - Explicit statement requiring originality of work in publications

Another point of policy (not from team meeting): question of 'preprint' statement in proceedings for Light Peer Reviewed papers

Next Team Meeting

- 28 November to 1 December 2023, hosted by the National Synchrotron Radiation Research Center (NSRRC) in HsinChu City, Taiwan
- Boundary conditions for using SPMS/JACoW-Indico require that conference editors attend team meetings throughout at least a three-year cycle
- SPCC & IT infrastructure managers are also welcome

Reprocessing of Old Proceedings

*Long-term archival, Longevity & Public Access to JACoW Conferences

Volker RW Schaa

GSI (1974-1979, 1982-2020) Darmstadt, Germany

KEK (Mar/Apr 2023) Tsukuba, Japan

SHM2023 in Venice, Italy

2022 -05-1

- * Adobe: PostScript Type 1 fonts end of support: 1 Jan 2023
 - * Facts
 - * Consequences
- * Invitation from KEK
- * Statistic of Findings
- * Solutions?

* Adobe: Type 1 Support:

- * Type 1 fonts (also known as PostScript, PS1, T1, Adobe Type 1, Multiple Master, or MM) are a format within the font industry that has been replaced by formats that can support larger glyph sets (>256 glyphs).
- * Adobe applications will not recognize the presence of Type 1 fonts, even if you have Type 1 fonts installed in your desktop operating system:
 - * 1. Type 1 fonts will not appear in the Fonts menu.
 - * 2. There would be no way to use previously installed Type 1 fonts.
 - * 3. Existing Type 1 fonts will appear as “Missing fonts” in the document.

* Adobe: Type 1 Support: JACoW Papers?

- * No changes are being made to Acrobat. Acrobat will continue handling PDFs in the same manner it has been for more than 20 years:
- * PDFs with **embedded** fonts will display as intended.
- * For files with **non-embedded** fonts there are two scenarios-
 1. The missing font is one of the fonts that ships with Acrobat or is the default in the operating system's fonts. This font gets used in place of the non-embedded font.
 2. The missing font is **substituted** for the next closest match according to Acrobat's font substitution table and the available fonts on the system.

*Consequences?

- * The main font type used in the early days were Type 1 (especially in LaTeX).
- * The task at hand is to find how many papers have their fonts not embedded and could therefore cause problems when viewing.
- * Around 2012 I introduced a check for font embedding in the proceedings scripts therefore we have to look into papers from 1996-2013.
- * Besides this, Adobe's decision makes clear that our archive is **not** a long-term archival offering longevity in the current state.

* Invitation to KEK:

- * I was invited as **Short-Term Invited Fellow** to look into old pre-JACoW conferences (scanned) and develop a way to generate DOIs for conference before 2015 which are currently do not have DOIs.
- * In addition check the amount of papers which do not have all fonts embedded, specifically Type 1 fonts.

*Statistics for IPAC

<IPAC>

2010 526 of 1568 33.5%

2011 512 of 1249 41.0%

2012 2 of 1375 0.2%

2013 0 of 1324 0.0%

2014 2 of 1304 0.2%

2015 0 of 1221 0.0%

2016 22 of 1272 1.7%

2017 0 of 1403 0.0%

2018 0 of 1419 0.0%

2019 0 of 1244 0.0%

%</IPAC>

*Statistics for LINAC

<LINAC>

2004 160 of 267 60.0%

2008 156 of 363 43.0%

2010 46 of 326 14.1%

2012 0 of 332 0.0%

2014 0 of 364 0.0%

</LINAC>

*Statistics for (NA)PAC

<(NA)PAC>

2007 710 of 1426 49.8%

2009 557 of 1571 35.5%

2011 128 of 842 15.2%

2013 0 of 462 0.0%

2016 0 of 376 0.0%

</(NA)PAC>

*Statistics for EPAC

<EPAC>

2008 830 of 1229 67.5%

</EPAC>

In total for the conferences checked ~3.700 papers

*Solutions?

Transition to Indico

From 2022 - Indico SPMS Merger



- Phase 1 of project has concluded; full specifications are available at <https://codimd.web.cern.ch/s/d2XPNF5L9>
- Significant progress during the pandemic
 - Scientific secretariat testing carried out during 2021
 - Editorial testing started, to be concluded
- During Team meeting 2021 a priority list was agreed between the Indico team and JACoW, which is captured in phase 2
- Phase 2 project closure expected 2023, with 1 FTE provided from Indico

From 2022 – Planned activities

- IPAC CC have an ongoing initiative to support JACoW for easing the transition towards Indico as the main tool
- This has resulted in funding being provided from the 3 super-regions
- IPAC'23 together with Elettra will host the project and Ivan Adrian will act as project manager
- JACoW will interface with the project via the JPSP working group that was formed last year
- Next IPAC will use Indico, and the goal is to have an Indico compatible JPSP available for it

Indico SPMS Merger



- FEL successful "beta" test for Indico as the primary JACoW tool
- IPAC'23 first major conference
 - Using Indico
 - New mobile application based on Indico
 - Proceedings will be generated with new tool
- Phase 2 project closure still expected 2023, with 1 FTE provided from Indico.
- No more SPMS conferences will be created, currently there are 6 that are in planning

JACoW Proceedings Scripts Package

- What is the JPSP
 - Set of tools that ties into the workflow after SPMS
 - During conferences it checks for various issues within the proceedings office
 - At conference closure it creates the Pre-publication
 - Next step is to create the final proceedings for publication at jacow.org
 - Amazing work that has been supported extremely diligently by Volker Schaa since 2003
- Why does it need to be updated?
 - SPMS and Indico do not provide the same data structure

01 SPMS

Abstracts submission
Paper submission
Paper editing
Metadata

03 JPSP

JACoW Proceedings Script Package
19k+ lines of command line Perl
Downloads metadata and data.
Hacks PDFs, create indexes and more

02 Fileserver

Hosts paper files (source, PDF, ...)
outside Oracle.
HTTP handshake with SPMS (Perl)

04 JACoW.org

Static (HTML/JS) website with
conference proceedings.
Single volume PDF for libraries

New landscape

01



Abstracts submission
Paper submission
Paper editing
Metadata
Hosts paper files (source, PDF, ...)
Conference Assembly Tool (CAT)

02



Static (HTML/JS) website with
conference proceedings.
Single volume PDF for libraries

Credits

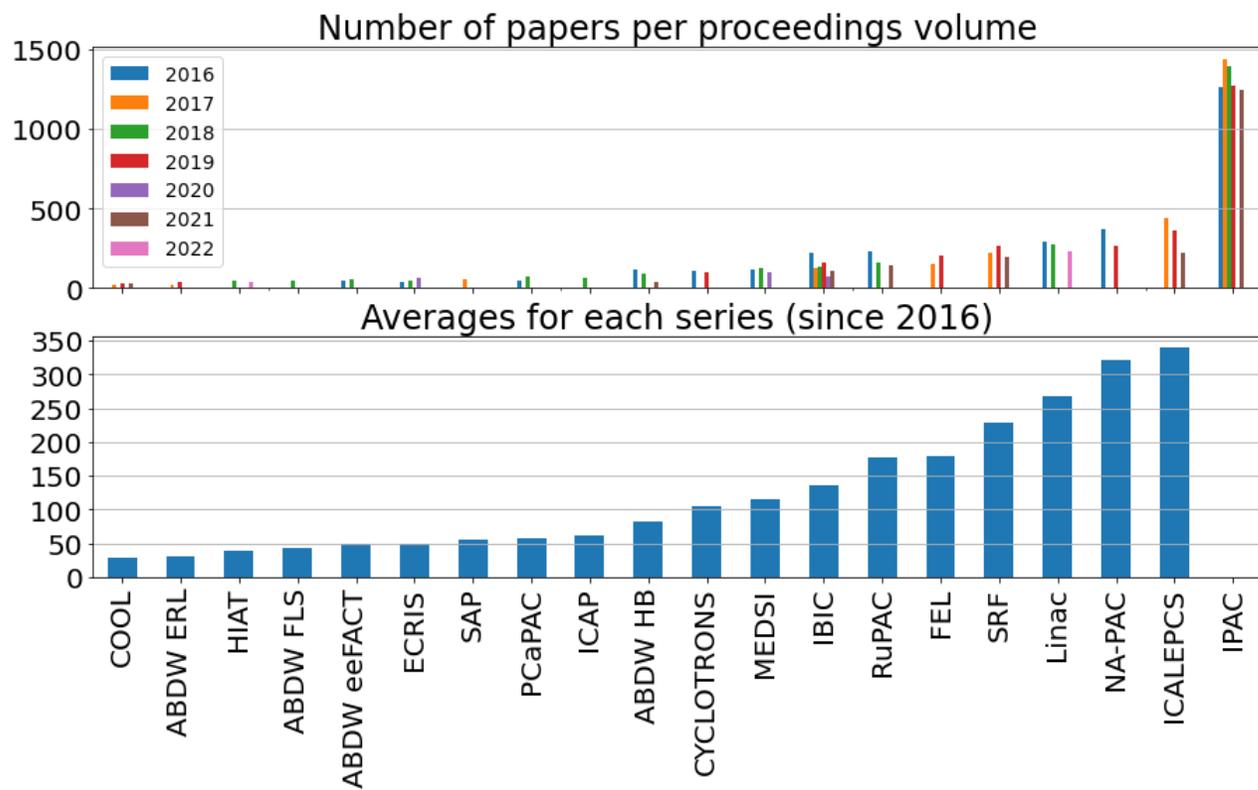


Central Repository

- The database for all user profiles and identities
- Central mail tool, used to send all conference announcements
- Last dependency on SPMS

- Working group is formed by BoD to develop new proposal and solution
- *Timing: before Team meeting in November 2023*

Collaboration Needs



- Large conferences (IPACs, FEL) have traditionally been drivers of major development for JACoW (Indico transition tools, Cat Scan/reference search tool, etc)
- Smaller conferences have fewer resources to invest in JACoW

'Boundary conditions' for participation in collaboration

Text to be undersigned by the conference chair and sent to the JACoW Chair and/or Coordinator:

As Organizers of the XXX Conference we undertake that:

1. To ensure proper training, the Scientific Secretary/Editor-in-Chief/IT Manager (one or several) will attend **at least** three team meetings in the roles of future, current, or past Editor-in-Chief in a series, in order to ensure proper coordination within the same series and within the JACoW Collaboration.
2. The data supplied and collected with the SPMS system will under no circumstances be used for any other purpose than in connection with the organization of the conference in question (**conference and non-conference announcements, or mails to the *whole repository* are strictly forbidden**).
3. The e-mail utility may be used normally only **once** to announce the conference to those profile/account owners contained in the relative mailing lists, and **once** following the conference to announce the publication of the proceedings at the [JACoW](#) site.
4. The data will not be provided to any external body for any purpose.
5. Following the publication of the conference proceedings and repatriation of the data to the central repository, the link to the central repository will be cut and there will be no further maintenance of the system by central support.
6. The email utility will not be used after the publication of the conference proceedings.
7. The profiles and account information generated by the conference will be of the same quality as the data already in the repository (no dummy emails, etc.).
8. Software installed using JACoW licenses will be un-installed immediately after the conference.

We would all benefit from having more people involved longer-term, rather than short-term 'rolling' membership.

- Saves money on training new editors, attending annual team meetings
- Simplifies problem of knowledge transfer within each conference series
- Allows for more people to develop expertise and contribute to improving JACoW processes

Requests

- Support (labor) is needed for reprocessing of proceedings
- More administrative support for JACoW is needed (coordinator role requires more than a small percentage of a team member's working time)

Thank you for your attention.

Questions?