

Linac 2000 to ICALEPCS 2001

Defining Requirements and Implementing Solutions for Creating JACoW Compliant Proceedings

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Agenda

- Linac 2000
 - Publishing environment
 - Publishing to JACoW
 - Researching JACoW's requirements
 - Researching the "What"
 - Defining the "How"
 - Work Plan

- ICALEPCS 2001
 - Processing standards implemented
 - Proceedings status



Linac 2000 Publishing Environment

- What we had to work with
 - Short publication schedule
 - No formatting or editing resources (Production Staff = 1 FTE)
 - PDF submissions “ok” – source documents not required
 - Paper submission to arXiv.org strongly encouraged
 - Printer adds page numbers
 - Print (US letter size book), CD, and eConf publications
- Our assumptions
 - JACoW would link to eConf
 - A4 page layout not required



Publishing to JACoW

- The best laid plans...
 - One day the phone rang and the Linac editor said we do need to publish to the JACoW site
 - Worst news, we found the various paper formats didn't meet JACoW's standards
 - Papers were not cropped correctly to allow printing on both US and A4 paper
 - Papers did not contain page numbers or reference the conference
 - PDF hidden fields did not contain the correct information
- And since the conference was over it took some time to learn what JACoW's requirements are
 - JACoW typically trains new editors at conferences with specifics
 - JACoW Web site contained general information about electronic publishing and page size



Researching What and How

- SLAC team assembled to figure out “what” and “how”
 - “What” JACoW’s requirements are
 - “How” we could meet these requirements
- Resources
 - Draft conclusions of the JACoW Team Meeting, held February 2002
 - PostMortem of PAC2001
 - JACoW Web site
 - Organisers page (<http://cern.ch/JACoW/organisers/welcome.html>)
 - Discussions with Sara Webber of FNAL about PAC01 and Lief Liljeby’s WinBatch script for inserting page numbers, hidden field information, and automating cropping
 - Email discussions with John Poole



Researching the “What”

- Papers need to be printable on either A4 or US size paper
 - Cropped size is 595 x 792 pt
- Papers need conference title on each page, preferably at top
- Papers needs to be numbered consecutively across the proceedings
- PDF hidden fields need to be populated like this:
 - Title: Paper title with anglicized characters (no math or foreign characters)
 - Subject: A variable, but often the classification or session title given by conference
 - Author: List of all (multiple) author names without affiliations
 - Keywords: List of up to five keywords provided by the authors



Researching the “What” (cont.)

- Papers submitted to JACoW should not contain extraneous stamps such as arXiv eprint number or home institution info
- Thumbnails must be created for all PDFs
- Document properties should be set to open with thumbnails and page set to “Fit Width”
- HTML indexes (author and table of contents) and PDF files typically submitted to JACoW on CD-ROM
- Mail CD-ROM to :
 - CERN
 - Mailbox: Z01610
 - CH-1211 Genève 23
 - Switzerland



Defining the “How”

- The easy part...
 - Collect and update the subject and keyword data and add it to the SPIRES database
 - Asked Editor to define keywords for all papers
 - Use PAC2001 WinBatch script to automate
 - page number insertion
 - hidden field insertion
 - cropping of papers
 - Use Acrobat to batch thumbnails and open file properties
 - Update existing HTML TOC and author index pages for JACoW submission
- Glitch
 - No Windows programming support to run WinBatch script
- Then we automated...
 - WinBatch codes had useful information about software tools and settings we could use for batch and manual processing
 - SPIRES programmer wrote a Perl script that populated the PDF hidden fields with the required data from SPIRES



Work Plan

- Resized Papers
 - Reset cropped files to zero
 - Re-cropped files to 595 x 792 pt using PitStop Pro
 - Moved paper ID to bottom left hand corner
- Editors collected and updated subject and keyword data
 - Created subject and keyword electronic forms. Subject form by session number. Keyword form by individual paper.
 - Entered keyword and subject code data into forms
 - Ported data from forms to SPIRES database
- Added hidden field data to all PDFs
 - Perl script populated PDF hidden fields (paper title, author list, subject and keywords) from SPIRES database



Work Plan (cont.)

- Added conference information to papers
 - Used Impress Pro to batch stamp conference information on papers
- Added Page numbers
 - Used StampPDF software to number papers consecutively throughout proceedings
- Removed extraneous arXiv and home institution stamps
 - Acrobat Exchange text tool
- Thumbnails embedded
 - Batched thumbnails and set open option to “Fit Width” using Acrobat Exchange
- Created HTML indexes, submitted CD to JACoW, and replaced eConf PDFs
 - <http://accelconf.web.cern.ch/AccelConf/I00/index.html>
 - <http://www.slac.stanford.edu/econf/C000821/proceedings.html>



ICALEPCS01

Paper Processing Standards Implemented

- Same paper take-in process as Linac2000
- Source documents required for all papers
- Applied paper processing procedures defined for Linac
 - Single template set for dual printing (279 mm x 210mm)
 - Cropped to 595 x 792 pt
 - Extraneous arXiv and home institution stamps removed
 - Conference title and location appears on each paper
 - Pages numbered consecutively across proceedings
 - Hidden fields include required metadata:
 - Paper title
 - Multiple author list (no affiliations)
 - Subject category
 - Keywords
 - Thumbnails embedded
 - Document properties set to open with “Fit Width” setting and thumbnails generate



ICALEPCS01 Proceedings Status

- Conference Chairman working with Proceedings Editor to finalize content
- Limited print volumes, CDs, and final submission to JACoW pending Chairman's release (November – December 2002)
- For citation purposes the draft proceedings is available on eConf
 - <http://www.slac.stanford.edu/econf/C011127/>

