

JUDS

JACoW Upload/Download Scripts

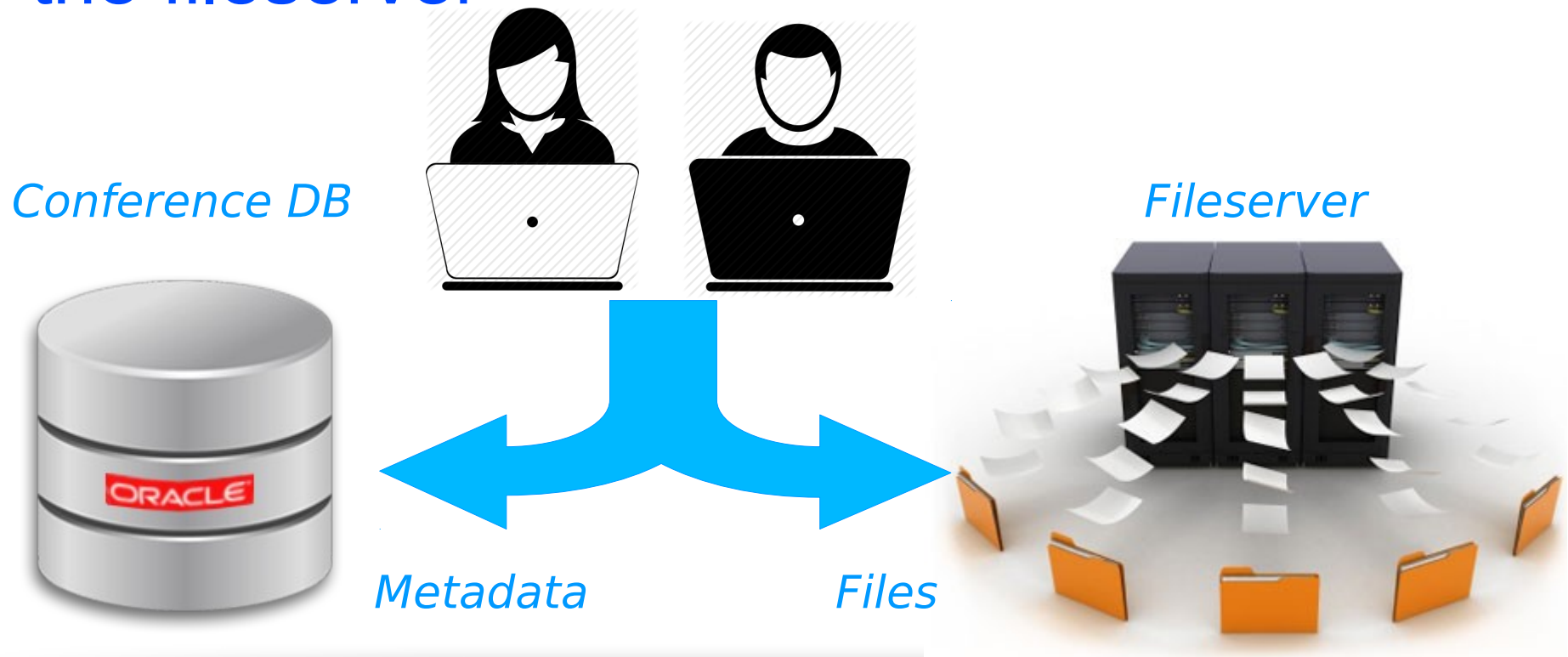
Ivan Andrian

`ivan.andrian@elettra.eu`

JACoW Chair
Elettra Sincrotrone Trieste

What are JUDS for?

- A GLUE between the user, the SPMS and the fileserver



... and the editor



Conference DB



Fileserver



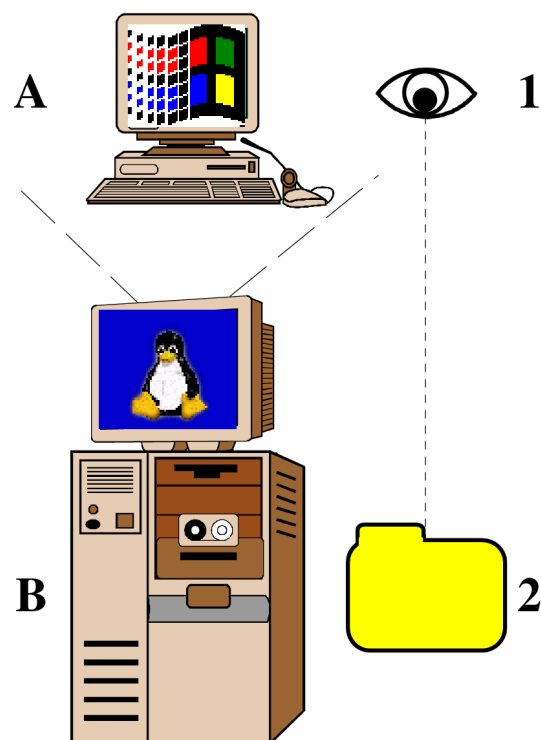
What in between?

- Distill!
 - PS to PDF
 - PDF to PDF (optimisation)
 - Check for distillability, fonts, margins (user review)

- # ICALEPCS99 in Trieste



Our first “distiller server,”



A - Virtual NT 4 workstation running into VMWARE

B - Linux-based PC for Networking and database

1 - Acrobat Distiller 4 for Windows watching a folder on the 'real' machine (2)

2 - Shared directory (e.g., /home/distillserv)

Windows NT4 on top of a Linux box with VMWARE

Since 2012...

- Distill is performed either by external tool (VMware) or by GhostScript
- After some tuning GS distill is mature
- Very secure (protecting papers from unwanted downloads)

Since 2014

- Forced authors list & metadata check

TM 2014 File Upload

Please verify the Title, the Abstract Text, and the Author list before proceeding with the upload.

[Click here to verify the Title, Abstract Text, and Author List](#)

Abstract: THAA1 IT Software/Hardware/Networking: The Updated JACoW Upload/Download Scripts (JUDS)

Paper ID THAA1

Presentation Type Invited Oral

Program Session THAA -- IT Software/Hardware/Networking

01/15/2015 0900 -- 1030

Main Conference Room

File Type

Platform

File to Upload No file selected.

Comments (Optional)

Please read the [JACoW Template Checklist](#) document before uploading your manuscript.

Less work for data crosschecking

TM 2014 Abstract and Author List Verification

Ivan
Andrian



[Logout](#) [Search](#) [My Schedule](#) [Home](#)

Title	IT Software/Hardware/Networking: The Updated JACoW Upload/Download Scripts (JUDS)	Submitted	29-SEP-14 03:46 PM (Europe/Paris)
Classification	10 Software, Hardware	Modified	29-SEP-14 03:52 PM (Europe/Paris)
Speaker:	Ivan Andrian	Presentation	Invited Oral
Author(s)	Ivan Andrian (Elettra-Sincrotrone Trieste S.C.p.A., Basovizza)	Paper ID	THAA1
Abstract	Overview of the JACoW Upload/Download Scripts. Word Count: 6 Character Count: 45	Paper PDF	Download
Footnote			
Funding Agency			

Please verify the Title, Abstract and Author(s) as previously entered into the SPMS, as shown above, exactly match, as far as is technically possible, the source file you are about to upload.

If they do not match please

- [Edit the title/abstract.](#)
- [Update the author list.](#)
- or Edit your paper prior to uploading.

Verified

There's a reason

FERMI STATUS REPORT

M. Svandrik[#], E. Allaria, F. Bencivenga, C. Callegari, F. Capotondi, D. Castronovo, P. Cinquegrana, M. Coreno, R. Cucini, I. Cudin, M.B. Danailov, G. D'Auria, R. De Monte, G. De Ninno, P. Delgiusto, A. Demidovich, S. Di Mitri, B. Diviacco, A. Fabris, R. Fabris, W. M. Fawley, M. Ferianis, E. Ferrari, P. Finetti, L. Fröhlich, P. Furlan Radivo, G. Gaio, D. Gauthier, F. Gelmetti, L. Giannessi, M. Kiskinova, S. Krecic, M. Lonza, N. Mahne, C. Masciovecchio, M. Milloch, F. Parmigiani, G. Penco, L. Pivetta, O. Plekan, M. Predonzani, E. Principi, L. Raimondi, P. Rebernik Ribic, F. Rossi, L. Rumiz, C. Scafuri, C. Serpico, P. Sigalotti, C. Spezzani, C. Svetina, M. Trovò, A. Vascotto, M. Veronese, R. Visintini, D. Zangrando, M. Zangrando, Elettra, Trieste, Italy

Abstract

FERMI, the seeded Free Electron Laser (FEL) located at the Elettra laboratory in Trieste, Italy, consists of two FEL lines. The FEL-1 facility, covering the wavelength range between 20 and 100 nm, was officially opened to external users. The shorter wavelength range, between 20 and 4 nm, is covered by the FEL-2 line, a double stage cascade operating in the "fresh bunch injection" mode, which is still under commissioning. We will report on the different FEL-1 operation modes that can be offered for users and assess the performance of the facility. The progress in the commissioning of FEL-2 will then be addressed, in particular reporting the performance attained at the lower wavelength limit; this aspect is of

Along with operation of FEL-1 and commissioning of FEL-2, the construction completion activities and the first upgrades are progressing. Three more beamlines are under construction and will be completed by 2015. First upgrades are concentrated on the linac. The new 50 Hz photocathode gun has been installed and commissioned during 2013. The linac energy finally attained 1.56 GeV. Two more accelerating structures are in construction and will be installed in 2015. This will give operating margin on the nominal energy and is part of an upgrade program which has been launched to get an even more reliable and robust facility for our user's community.

FEL-1 OPERATION FOR USERS

Three calls for proposals of experiment on FERMI have

Owner	Primary	Presenter	Remove	Author	Affiliation	On Leave	Sort Order
X	X	X		Michele Svandrik	Elettra-Sincrotrone Trieste S.C.p.A.		
				Enrico Allaria	Elettra-Sincrotrone Trieste S.C.p.A.		
				Filippo Bencivenga	Elettra-Sincrotrone Trieste S.C.p.A.		
				Carlo Callegari	Elettra-Sincrotrone Trieste S.C.p.A.		
				Flavio Capotondi	Elettra-Sincrotrone Trieste S.C.p.A.		
				Davide Castronovo	Elettra-Sincrotrone Trieste S.C.p.A.		
				Paolo Cinquegrana	Elettra-Sincrotrone Trieste S.C.p.A.		
				Marcello Coreno	Elettra-Sincrotrone Trieste S.C.p.A.		
				Riccardo Cucini	Elettra-Sincrotrone Trieste S.C.p.A.		
				Ivan Cudin	Elettra-Sincrotrone Trieste S.C.p.A.		
				Miltcho B. Danailov	Elettra-Sincrotrone Trieste S.C.p.A.		
				Gerardo D'Auria	Elettra-Sincrotrone Trieste S.C.p.A.		
				Raffaele De Monte	Elettra-Sincrotrone Trieste S.C.p.A.		
				Giovanni De Ninno	Elettra-Sincrotrone Trieste S.C.p.A.		
				Paolo Delgiusto	Elettra-Sincrotrone Trieste S.C.p.A.		
				Alexander Demidovich	Elettra-Sincrotrone Trieste S.C.p.A.		
				Simone Di Mitri	Elettra-Sincrotrone Trieste S.C.p.A.		
				Bruno Diviacco	Elettra-Sincrotrone Trieste S.C.p.A.		
				Alessandro Fabris	Elettra-Sincrotrone Trieste S.C.p.A.		
				Riccardo Fabris	Elettra-Sincrotrone Trieste S.C.p.A.		
				William M. Fawley	Elettra-Sincrotrone Trieste S.C.p.A.		
				Mario Ferianis	Elettra-Sincrotrone Trieste S.C.p.A.		
				Eugenio Ferrari	Elettra-Sincrotrone Trieste S.C.p.A.		
				Paola Finetti	Elettra-Sincrotrone Trieste S.C.p.A.		
				Lars Froehlich	Elettra-Sincrotrone Trieste S.C.p.A.		
				Paolo Furlan Radivo	Elettra-Sincrotrone Trieste S.C.p.A.		
				Giulio Gaio	Elettra-Sincrotrone Trieste S.C.p.A.		
				David Gauthier	Elettra-Sincrotrone Trieste S.C.p.A.		
				Federico Gelmetti	Elettra-Sincrotrone Trieste S.C.p.A.		
				Luca Giannessi	Elettra-Sincrotrone Trieste S.C.p.A.		
				Maya Kiskinova	Elettra-Sincrotrone Trieste S.C.p.A.		
				Stefano Krecic	Elettra-Sincrotrone Trieste S.C.p.A.		
				Marco Lonza	Elettra-Sincrotrone Trieste S.C.p.A.		
				Nicola Mahne	Elettra-Sincrotrone Trieste S.C.p.A.		
				Claudio Masciovecchio	Elettra-Sincrotrone Trieste S.C.p.A.		
				Massimo Milloch	Elettra-Sincrotrone Trieste S.C.p.A.		
				Fulvio Parmigiani	Elettra-Sincrotrone Trieste S.C.p.A.		
				Giuseppe Penco	Elettra-Sincrotrone Trieste S.C.p.A.		
				Lorenzo Pivetta	Elettra-Sincrotrone Trieste S.C.p.A.		
				Oksana Plekan	Elettra-Sincrotrone Trieste S.C.p.A.		
				Mauro Predonzani	Elettra-Sincrotrone Trieste S.C.p.A.		
				Emiliano Principi	Elettra-Sincrotrone Trieste S.C.p.A.		
				Lorenzo Raimondi	Elettra-Sincrotrone Trieste S.C.p.A.		
				Primoz Rebernik Ribic	Elettra-Sincrotrone Trieste S.C.p.A.		
				Fabio Rossi	Elettra-Sincrotrone Trieste S.C.p.A.		
				Luca Rumiz	Elettra-Sincrotrone Trieste S.C.p.A.		
				Claudio Scafuri	Elettra-Sincrotrone Trieste S.C.p.A.		

And then...

- Author can
 - Upload
 - let the system distill
 - check the result
 - eventually fix the problems

OK, convinced, wanna get it!

- Two options
 - JUDS Regional Support Centres

- EMEA



- Americas



- Cook your own! → <http://goo.gl/t5etZK>
 - Not a big (IT) deal, do it right however!

Configuration matters!

iaoptions.config

```
#
# Download options
#
"hash_seedD"    => "P92BsGoINAl5q2aynIlKqWEscHZtMj",
                  # shared secret to restrict downloads
                  # comment this line if you want to be able
                  # to download papers by anyone via Agenda
                  # and XML packages (URLs)
                  # If set it must match the SPMS parameter
                  # "Secret Passphrase for paper DOWNLOAD"
                  # under "Web Configuration"
```

Download Phrase



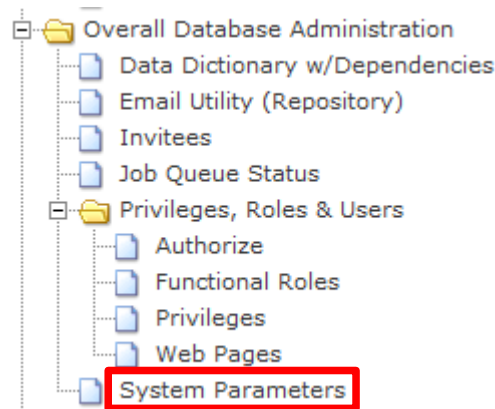
```
#
# Upload options
#
"hash_seedU"    => "Xjs2ad4eitz0bGwpa9UhGGq2aevlKW",
                  # shared secret to restrict uploads
                  # CHANGE THIS AFTER INSTALL!!
                  # this parameter must be set and match
                  # the SPMS parameter "Secret Passphrase for
                  # paper UPLOAD" under "Web Configuration"
```

Upload Phrase



Configuration matters!

SPMS



[Conference](#) [User](#) [URLs](#) [Email](#) [Web Configuration](#) [SPMS Configuration](#) [Image URLs](#) [Registration](#) [Hotel Handling](#) [Experts/Referees](#) [PC](#) [Post Conference](#) [E-Dot Board](#)

Secret Passphrase for paper UPLOAD [Xis2ad4eitzObGwpa9UhGGq2aevlkW](#)

Upload Phrase

Secret Passphrase for paper DOWNLOAD [P92BsGoINAL5q2aynIlKqWEschZtMj](#)

Download Phrase

This passphrase (that MUST BE CHANGED AFTER INSTALLATION) is used for securely UPLOAD the papers to the file server via the JACoW Upload Scripts (JUDS). It MUST match the corresponding setting in the JUDS scripts configuration. Set this parameter to a random non trivial string.

This passphrase (that MUST BE CHANGED AFTER INSTALLATION) is used for securely DOWNLOAD the papers from the file server via the JACoW Download Scripts (JUDS). It MUST match the corresponding setting in the JUDS scripts configuration. Set this parameter to a random non trivial string, or leave it empty if you don't mind letting anyone download uploaded paper files. You MUST leave it empty if you want to download papers from the Agenda or from the XML extract (with its direct links).

GS Autodistill

- Prerequisites:
 - Recent Ghostscript
 - Commonly used fonts (e.g. MS TTF Core Fonts)
 - Latest JUDS Scripts from *jacow-spms.sourceforge.net*
 - Webserver with enough processing power, ...
 - ... and disk space
 - Configure the appropriate parameters in the JUDS

Did I say „Configuration matters“?

```
#
# Distill options
#
"distill"          =>1,          # wether to distill (1) or not (0)
#
"distill_script" =>"distill.pl", # Name of the basic distill script. If
# present on the same server and directory
# as metadistill, it should just be the script
# name like 'distill' or 'distill.pl'.
# Otherwise, a full path/URL could be used
"metadistill_script" =>"http://jacow.web.psi.ch/cgi-bin/conf/linac12/metadistill.pl",
# Points to the full URL of the metadistill
# script. If you change the name of the
# script (to 'metadistill.pl', for example)
# update this parameter accordingly.
# This base url should be the one in the SPMS
# under "Author file upload script", but
# with the different script name
"dist_dir"        =>"/tmp/",
# base dir where paper are being distilled
"out_dir"         =>"/tmp/",
# base dir where the PDFs are expected
"gs_active"       =>1,          # wether to distill actively with Ghostscript (1) or not (0)
"gs_exe"          =>"/opt/ghostscript/bin/gs", # Only needed if gsdistill is set to 1. Points in this
# case to the gs executable of your system
# Be sure to have the latest stable version
# of GhostScript, if not you could get many
# errors when distilling
```


Future

- Let the SPMS create the wrappers for possible future templates
 - First page (wrapper): Title, authors' list, abstract
 - Last page(s) (wrapper): References
 - Scientific content in between
- Big impact on the final layout:

Big impact on the final layout

• Stakeholders agreed on experimenting

PREPARATION OF PAPERS FOR JACoW CONFERENCES*

J. Poole, C. Petit-Jean-Genaz, CERN, Geneva, Switzerland
C.E. Eybanger, ANL, Argonne, IL 60439, USA
I. Andina, Elettra-Sincrotrone Trieste, Trieste, Italy

Abstract
Both the JACoW team and Stakeholders, in different times, started thinking of changing the way the scientific content is being submitted to conferences and, then, will go into the proceedings.
The basic idea is to let the authors focus on the scientific content, leaving to some automated procedure the burden of creating the "wrappers" of any paper, i.e. the title, authors list, abstract and references. A possible solution is here proposed, together with a migration timetable.
Standard JACoW template abstract follows:
Many conference series have adopted the same standards for electronic publication and have joined the Joint Accelerator Conference Website (JACoW) collaboration [1] for the publication of their proceedings. This document describes the common requirements for the submission of papers to these conferences. Please consult individual conference information for page limits, method of electronic submission, etc. It is not intended that this should be a manual in word processing; the aim is to explain the particular requirements for electronic publication at these conference series.

*Work supported by THE TEXT & COLUMN MARKING

THE PRESENT STATUS

The current workflow for an author, when submitting a paper to a conference, usually follows this flow:

1. submit an abstract;
2. define the list of authors in the SPMS;
3. when the abstract is accepted, write the paper using LaTeX, Word, LibreOffice, whatever;
4. create the PDF;
5. upload all the files onto the SPMS.

The editor, on the counterpart, needs to check and edit the PDF, including proofreading and formatting of references, check that the title in the PDF is consistent with that from the initial abstract (which will be in the index); check the authors list (formatting, all authors present on both parts, etc.).

All this processes are really time consuming. The references often have inconsistent format and, together with the title, authors list and abstract, take space from the core, scientific, content.

THE GOAL

The final result should:

- give more space to the author for the scientific content;
- get rid of the data already in the DB from the "paper" (to avoid redundancy and inconsistency);
- save the editor's time removing the consistency check for references, title, authors list;
- have well formatted references, everywhere;
- have links to referred papers;
- apply page limits only to the core content, i.e. not counting the first and the references pages.

The Next Workflow

For the author:

1. submit an abstract;
2. define the list of authors in the SPMS;
3. when the abstract is accepted, write the paper using LaTeX, Word, LibreOffice, whatever, without creating the title, the authors list, the references;
4. create the PDF;
5. upload all the files onto the SPMS;
6. create the list of references in the SPMS:
 - for JACoW papers, search them in the SPMS and select them;
 - for non-JACoW papers, insert the text in a loose structure (conference/journal, date, title, authors, ...)

And the editor will check the paper and the reference links of the references.

When the proceedings are generated, the data in the SPMS is used to automatically create the first page (title, authors list and abstract) and the references to PDF format. These "wrapper" papers are then attached to the (edited) PDF from the author.

With this new procedure, less work is needed from everybody (it looks that there's more work for the author but, in fact, it's not so much to write title, authors list and abstract in the paper and, for reference, he will insert them in the SPMS instead of in the paper, manually, with the help of the SPMS for the format and for the references in other JACoW papers).

THE TOOLS FOR THE GOAL

We already are able to create PDFs from the information in the SPMS.
The management of the references need some development in the SPMS but it's technically feasible. The authors will need to learn the new procedure.

THE ROAD TO THE GOAL

This proposal can change a lot of the way in paper submission, so it is potentially risky. A progressive change has been planned to minimise the impact on the authors' change in behaviour.

Step 1

The JACoW templates will be modified, getting to something like this document. The authors will write the new papers using the new templates.
No automatic process will be used in this phase yet.

Step 2

The templates will be changed having the first page removed.
The will be created by the SPMS during the editorial process. No change in the references yet.

Step 3

The references section will be removed from the templates. The SPMS will ask the authors to input the references in a dedicated, new, page.

Step 4

The references to JACoW papers will be searchable and selectable from the SPMS. Only the references to non-JACoW papers will be needed to be inserted manually.
The above steps are not really needed to take place separately. After a discussion, possible overlaps can be done to shorten the path.

THE DEVELOPMENT

The only big development is related to the to-be created database of references/papers. However, this will also help satisfying the needs of these institutes or countries that are looking forward to evaluating the impact factor of their contributions to the scientific community.

THE EXAMPLE

Here follows the example. The references have been created twice, in one and two columns format for better evaluation.

PAGE NUMBERS

DO NOT include any page numbers. They will be added when the final proceedings are produced.

TEMPLATES

Templates and examples can be retrieved through Web browsers like Mozilla Firefox and Internet Explorer by saving to disk. See your local documentation for details about how to do this [5].
Template documents for the recommended word processing software are available from the JACoW Website and exist for LaTeX, Microsoft Word (Mac and PC) and OpenOffice for US letter and A4 paper sizes. Use the correct templates for your paper size and version of Word. Do not misinterpret Microsoft Word documents across platforms, e.g. Mac-PC. When saving a Word 2010 file (PC), be sure to click "Embed fonts in the file" option.
Please use the information and help files for authors on the JACoW.org web site for instructions on how to install templates in your Microsoft templates folder.

Style:	Font	Space Before	Space After
Paper Title	14 pt	0 pt	3 pt
Upper-case except for required lowercase letters			
Author List	12 pt	9 pt	12 pt
Upper- and Lower case			
Section Heading	12 pt	9 pt	3 pt
Initial caps			
Subsection Heading	12 pt	6 pt	3 pt
Initial caps			
Third-level Heading	10 pt	6 pt	0 pt
Initial Cap			
Figure Caption	10 pt	3 pt	6 pt
Table Caption	10 pt	3 pt	3 pt
Equation	10 pt base font	12 pt	12 pt
Reference	10 pt, justified with 0.25" hanging indent	0 pt	0 pt

CHECKLIST FOR ELECTRONIC PUBLICATION

- Use only Times or Times New Roman (standard, bold or italic) and Symbol fonts for text – 10 pt minimum except References, which can be 1 pt or 10 pt.
- Figures use Times New Roman (bold or italic) and Symbol fonts when possible – 1 pt minimum.
- Check that the PDF file prints correctly according to instructions on the conference web site.
- Check that there are no page numbers.
- Check that the margins on the printed version are within ±1 mm of the specification.
- LaTeX users can check their margins by invoking the *hmargin* option.

ACKNOWLEDGMENT

Any acknowledgment should be in a separate section directly preceding the References section.

REFERENCES

[1] C. Petit-Jean-Genaz and J. Poole, "JACoW: A Service to the Accelerator Community," EPAC'04, Lucerne, July 2004, THZCH03, p. 249 (2004), <http://www.JACoW.org>.
[2] A. Nune et al., Phys. Rev. Lett. 25 (1977) 55.
[3] A.N. Oller, "A Very Interesting Paper," EPAC'96, Stages, June 1996, MORCH11, p. 7984 (1996), <http://www.JACoW.org> (on period after URL).
[4] F.E. Black et al., *This is a Very Interesting Book*, (New York: Knopf, 2007), 52.
[5] G.B. Smith et al., "Title of Paper," MOXAP07, these proceedings.

[1] A.N. Oller, "A Very Interesting Paper," EPAC'96, Stages, June 1996, MORCH11, p. 7984 (1996), <http://www.JACoW.org> (on period after URL).
[2] F.E. Black et al., *This is a Very Interesting Book*, (New York: Knopf, 2007), 52.
[3] G.B. Smith et al., "Title of Paper," MOXAP07, these proceedings.

What will change

- New development in the SPMS for new interfaces and for automatic wrapper creation
- Authors will have to use the SPMS for their references too
- Not 100% final format guarantee
- Test stage should be performed

Thanks