

# SPMS / Conference Website Data Exchange

JACoW Team Meeting 2011 – SINAP

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# Tools to build a better Conference Website

- Examples:
  - List of Participants
  - Scientific Programme
  - Abstract Submission Report
  - Industrial Exhibition Layout and Reservations
  - Industrial Exhibitors Report
  - Delegate Registration Report

# Conference WebSites variety

- Up to Conference Organisers tastes & infrastructure
  - PHP
  - ASP.Net
  - Wiki-based sites
  - CMS-based sites (WordPress, Joomla, Drupal,...)
- Impossible to standardise
  - Could be a plus for the Conference (characterisation)

# Different data extract types

- “Open” HTML pages from the SPMS
  - List of Participants
    - e.g. <https://oraweb.cern.ch/pls/jacowtm/registration.list>
  - Conference WebSite can just grab data & display
- “Open” text data to be processed
  - Conference dates
- “Restricted” text data to be processed
  - List of Participants

*Now there's a dedicated SPMS Package: **Xtract***

# Conference Dates

- e.g.: <http://www.epac08.org/index.php?n=Main.Dates>
- Conference WebSites (CWS) need to be up-to-date
- Possible inconsistency when changing SPMS values
- ‘Live’ key dates taken from the SPMS
  - Get <http://RSC/plsname/Xtract.dates>
  - Put the values onto the CWS as needed
  - Procedure dependent on the CWS framework

# List of Participants

- CSV format data extract
  - Get <http://RSC/plsname/Xtract.attendees>
  - Put the data onto the CWS as wanted
- Consistent names & Affiliation List
- No problems with special characters (ç, š, ñ, etc.)
- *Just found a small bug! Will fix after TM (Sorry!)*

# Registration Statistics

- Build graphs of Registration Statistics trends
  - Get <http://RSC/plsname/Xtract.regstats>
  - Use the data within the CWS framework
    - Put into CWS database & process
    - Use Google Graphs
    - etc.

# Example (EPAC08-based)

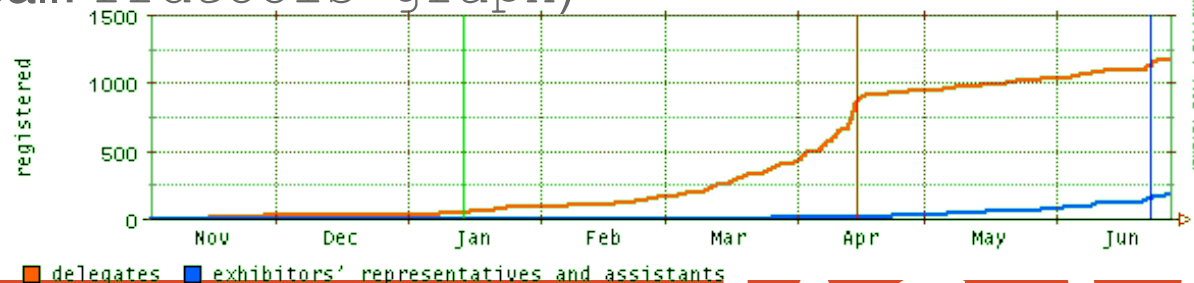


cron.php (cron: 1h |

```
...  
"Boland","Mark","New Affiliation Request Pending","Australia","D"  
"Spencer","Martin","The Australian Synchrotron Project","Australia","D"  
"Conard","Milo","Particle Accelerator Consultants","Belgium","D"  
...
```

- Get `http://RSC/plsname/Xtract.attendees`
- Save attendees
- Get `http://RSC/plsname/Xtract.regstats`
- Save stats
- Create rrd db (system call: `rrdtool create`)
- Insert stats into db (system call: `rrdtools update`)
- Create graph (system call: `rrdtools graph`)
- Adjust image
- Remove db

```
...  
19/03/2008, 10, D  
19/03/2008, 1, S  
20/03/2008, 21, D  
21/03/2008, 3, D  
...
```





### General Organization

Accommodation  
Social Programme  
Registration  
Student Grants  
Internet Access  
**Participants**

**Industrial Exhibition**  
**Scientific Programme**  
**Author info**  
**Useful tips**  
**Related Conferences**

## List of Participants



**996 delegates**, **152 exhibitors' representatives and assistants**, from **38 countries** (last update Fri, 14 Nov 2008 08:53:34 +0100)

## Delegates

**Abe Mitsushi** (Hitachi, Ltd. Power & Industrial Systems R&D Laboratory, Japan)  
**Abreu Natalia** (Brookhaven National Laboratory Collider-Accelerator Department, United States of America)  
**Acar Mikail** (European Organization for Nuclear Research TS Department, Switzerland)  
**Ackermann Wolfgang** (Technische Universitaet Darmstadt Institut fuer Theorie Elektromagnetischer Felder Dept. FB 18, Germany)  
**Adachi Masahiro** (UVSOR Facility Institute for Molecular Science, Japan)  
**Ader Christine** (Fermi National Accelerator Laboratory Accelerator Division, United States of America)  
**Adli Erik** (University of Oslo Department of Physics, Norway)  
**Afanasev Andrei** (Hampton University, United States of America)  
**Aksoy Avni** (Ankara University Faculty of Engineering Department of Engineering Physics, Turkey)  
**Al-Dmour Eshraq** (Consorci Font de Llum Sincrotron - CELLS, Spain)  
**Alabau Maria del Carmen** (Laboratoire de l'Accélérateur Linéaire, France)  
**Aleksandrov Alexander** (Oak Ridge National Laboratory Spallation Neutron Source, United States of America)  
**Alesini David** (Istituto Nazionale di Fisica Nucleare Laboratori Nazionali di Frascati Accelerator Division, Italy)

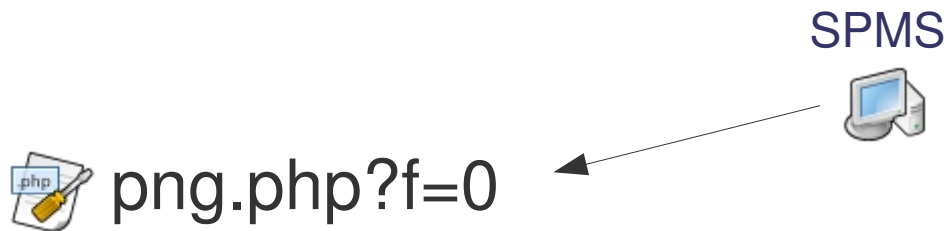
# Abstract submission report

- Similar to Registration Statistics data extract
- Day-by-day abstracts submitted counts
- CSV data to be processed
  - <http://RSC/plsname/Xtract.abstractsubmissions>
- Password-protected data extract (SPMS parameter)




# Industrial Exhibition Layout

- The idea is to show a live map with booths status
  - Booths Layout
  - Available booths
  - Reserved booths
- Reserved booths status taken from the SPMS
- External tools to create the map (PHP, libgd, etc.)
- Create a live image to display on registration page/CWS

# Procedure (EPAC08-based)



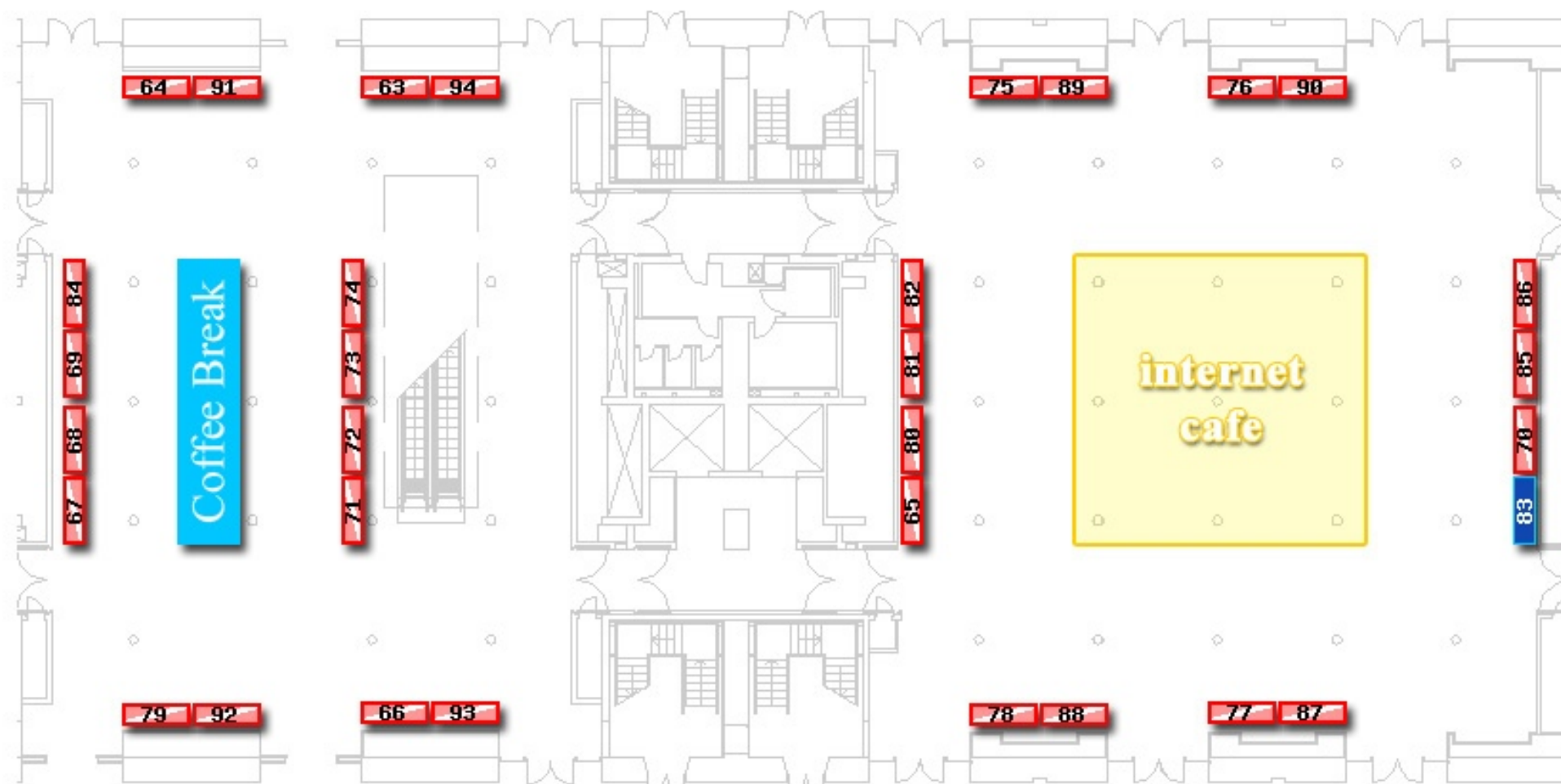
Booth No. 63 Booth No. 64 Booth No. 65 Booth No. 66  
Booth No. 67 Booth No. 68 Booth No. 69 Booth No. 70  
Booth No. 71 Booth No. 72 Booth No. 73 ....

- `http://RSC/plsname/Xtract.getBoothStatus?mdc=123`
- Load `boothsmap.dat` 
- Load `boothsmapbase.png` (libgd php functions) 
- Draw booths (available / taken) 
- Save & return `boothsmap.png`

63=[180,35,215,46]  
64=[55,35,90,46]  
....

7 8 9

## Ground floor - module 8 & 9



Module 8 & 9, Ground Floor, Industrial exhibition

# Scientific Programme

- Reports already exist in SPMS
  - <https://RSC/plsname/program.html>
  - <https://RSC/plsname/agenda.full>
  - <https://RSC/plsname/agenda.html>
- Pretty, but do not integrate well with CWSs
- Want ability “customise” the programme on CWS?
  - OK, let’s go!

# Let's get the data first

- Based on “the big **post-conference XML**”
- Yes, it's big
- Did I tell you it's big?
- OK, I tell you. It's **BIG**
- For EPAC'08, it took ~300” to get (yes, 5')

# So, let's do it every now and then...

 (w)get <https://RSC/plsname/spms.xml>

– (every hour, exec time: 5', 15MB for EPAC08)



 xml2obj.php (exec time: 3")

1. Load spms.xml
2. Extract data from XML (php function: `simplexml_load_file`),  
build programme and abstract objects with essential fields
3. Save spms.programme (500KB)
4. Save spms.abstracts (1.1MB)



# Create the final data files

 programme.php (cron: 1h | exec time: 0.5")

1. Load spms.programme
2. Load spms.abstracts
3. Compose HTML programme pages
4. Save programme.xx-YY (1 per day) 
5. Compose HTML abstract pages
6. Save abstract.xxxxxxx (1 per abstract) 

# Integrate into CWS

- Using the CWS framework tools, display the programme
- Easy to do with just HTML, CSS and JavaScript
  - Load programme.xx-YY HTML page
  - Compose page with link to extra CSS & JavaScript code (using prototype.js)
- Customised for the CWS styles

## General

## Organization

## Industrial Exhibition

## Scientific Programme

## Programme

## Oral Sessions

Invited

Contributed

**Oral Programme Schedule**

Guidelines for Speakers

## Poster Sessions

Session Organization

Poster Preparation

Student Poster Session

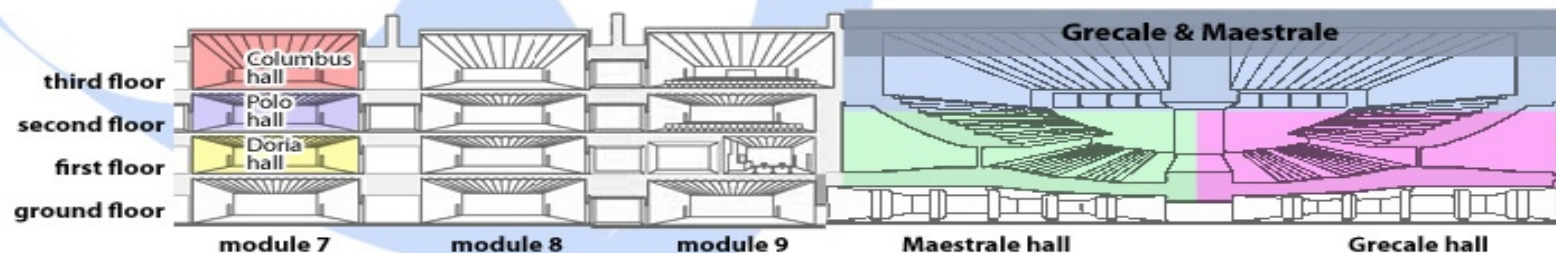
## Author info

## Useful tips

## Related Conferences

## Scientific Programme

The [Synoptic Table \(PDF\)](#) provides an overview of all oral presentations scheduled during the conference.



Mon, 23 June

Tue, 24 June

Wed, 25 June

Thu, 26 June

Fri, 27 June

## Circular Colliders

MOXAGM

Chair: C. Biscari (Istituto Nazionale di Fisica Nucleare Laboratori Nazionali di Frascati)

09:30 F.Bordry (European Organization for Nuclear Research AB Department)  
↓  
**Status of the LHC**

MOXAGM01

## Special Invited Oral Presentation

MOXBGM

Chair: C. Biscari (Istituto Nazionale di Fisica Nucleare Laboratori Nazionali di Frascati)

10:00 K.Nishikawa (High Energy Accelerator Research Organization)  
↓  
**Neutrino Facilities: From Past to Present and Future**

MOXBGM01

10:30  
↓  
11:00

Coffee Break

## Synchrotron Light Sources and FELs

MOYAGM

Chair: O.S. Brüning (European Organization for Nuclear Research AB Department)

11:00 J.Roszbach (Hamburg University Institut fuer Experimentalphysik)  
↓  
**Review of DESY FEL Activities**

MOYAGM01

## Linear Colliders, Lepton Accelerators and New Acceleration Techniques

MOYBGM

Chair: O.S. Brüning (European Organization for Nuclear Research AB Department)



# Extended to informonitors @ the venue

**EPAC'08** 11<sup>th</sup> European Particle Accelerator Conference  
Magazzini del cotone, Genoa, Italy / June 23-27, 2008

16:03

## Current Session

### Circular Colliders

TUXG

*Chair: R. Schmidt (European Organization for Nuclear Research)*

09:00 ↓	J. Seeman (Stanford Linear Accelerator Center) <b>Last Year of PEP-II B-Factory Operation</b>	TUXG01
09:30 ↓	V.D. Shiltsev (Fermi National Accelerator Laboratory) <b>High Luminosity Operation, Beam-Beam Effects and Their Compensation in TEVATRON</b>	TUXG02

### Synchrotron Light Sources and FELs

TUXM

*Chair: J.-M. Filhol (Synchrotron Soleil)*

09:00 ↓	J. Bengtsson (Brookhaven National Laboratory National Synchrotron Light Source II) <b>Ultra Low Emittance Light Sources</b>	TUXM01
09:30 ↓	R. Bartolini (Diamond Light Source Ltd) <b>Performance and Trends of Storage Ring Light Sources</b>	TUXM02

Grecale

Grecale & Maestrale

Maestrale



# Conclusions and open questions

- There are things where the SPMS is not enough
- Dependend on CWS infrastructure and tools
- Something could be “standardised”
  - Image maps creation
  - Shall we think of a central facility?
    - easier support
- Scientific Programme: hard but nice
  - Shall we test the SPMS programme with CSS?