DIPAC'11 SUMMARY REPORT

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Abstract

The 10th European Workshop on Beam Diagnostics and Instrumentation for Particle Accelerators, DIPAC'11, was held in Hamburg, Germany on May 16th–18th, 2011, hosted by DESY. Chaired by Kay Wittenburg from DESY, 291 attendees, including exhibitors and staff, were present at the conference venue, the museum freighter 'Cap San Diego'. 192 talks and posters have been presented reaching a new milestone in the DIPAC conference series.

CONFERENCE ORGANIZATION

The local organizing committee and the program committee were responsible for the successful organization of DIPAC'11. The local organizers took care of the local arrangements whereas the program committee had two meetings to discuss the scientific content and to set up the program and the speakers. The program committee consisted of 18 members from 15 countries and had its first meeting on October 11th, 2010 in Hamburg.

After the first PC meeting, the conference announcement was sent out to the accelerator community, the DIPAC'11 web pages went online and invitations were sent to the speakers of the invited talks.

The local organizers designated persons for the secretary, for the setup of the web pages, for the organizing of the industrial exhibition and the poster sessions, for the editorial board, for the proceedings office, the IT affairs including network infrastructure and for the coordination of a DESY tour. The local organizing committee consisted of 10 permanent members plus many helpers for the loading and assembly work on board the Cap San Diego.

SCIENTIFIC PROGRAM

The scientific program offered 30 talks (13 invited and 17 contributed talks) and 162 poster presentations.

The following topics and classifications were covered:
- Overview and Commissioning of Facilities
- BPMs
- Longitudinal Diagnostics and Synchronization
- Beam Loss Detection
- Transverse Profiles
- Beam Charge and Current Monitors
- Tune, Chromaticity and General Storage Ring Diagnostics
- Feedbacks and Beam Stability
- Others

Only 4 authors from 192 contributions did not submit their manuscripts for publishing in the end.

The program was scheduled in oral and poster presentations on Monday and Tuesday whereas on Wednesday only talks were given. The day after the conference a tour of the DESY campus was offered. Around 100 participants enjoyed the tour with stops at 9 interesting sights.

INDUSTRIAL EXHIBITION

On board the Cap San Diego an industrial exhibition took place on Monday and Tuesday during the conference. There was space for 20 booths. We received more requests, but unfortunately these could not be fulfilled.

REGISTRATION AND PAYMENT

InDiCo, a web browser based tool to manage events, conferences, meetings or lectures [1], was used for registration and payment. As opposed to the JACoW SPMS, the DESY InDiCo offers an electronic payment plugin which allows credit card transactions to be made through the web.

All participants were asked to register online via a registration form. After the registration they were directed through a secure payment gateway to enter the appropriate credit card data which was transferred to a DESY bank account. The information of incoming payments was forwarded from the DESY administration department to the conference secretary.

The registration opened on Dec 1st, 2010. Early registrants paid a fee of 450 €, but after April 1st, 2011 a late registration fee of 600 € was charged. Payment had to be made in advance in Euros. An online credit card payment was preferred, but also an offline payment by bank transfer was accepted.

The registration fee included:
- a conference kit consisting of a bag, name badges, writing utensils, city maps, promotion material etc.
- the welcome reception
- coffee breaks
- lunch buffet
- the conference dinner
- a DESY tour

USAGE OF THE JACoW SPMS

DIPAC'11 was organized using the full functionality of the JACoW Scientific Program Management System, SPMS, except for registration and payment. The 1st announcement was distributed and in addition instructions and reminders were sent to authors. The built-in email utility was a helpful feature.

The program committee members had privileges to display all abstracts and to propose changes to presentation types.

The abstract submission, the paper submission and the paper processing went very well at all times using the SPMS.

The SPMS instance for DIPAC'11 was set up at CERN by Ronny Billen 10 months prior to the conference start. Little by little the classifications, the location codes, presentation types and sessions were entered. The paper codes (=program codes) were assigned manually. The DIPAC'11 paper codes were defined by the day (MO, TU, WE), the contribution type (O = Oral, P = Poster), a session code (A = before morning coffee, B = after morning coffee, C = before afternoon coffee, D = after afternoon coffee) and finally a serial number between 01 and 99. The number of digits had to be defined in the SPMS configuration of the system parameters.

Abstract Submission – Call for Papers

The submission of abstracts was possible five months prior to the conference starting from December 1st, 2010.

222 abstracts have been received between Dec 1st, 2010 and Feb 23rd, 2011. The official deadline was extended for another week due to an unexpected number of requests after the official deadline on Feb 15th, 2011.

Two weeks after the official abstract submission deadline the program committee met at DESY on Feb 28th, 2011 to inspect all the abstracts and to select the contributed talks.

Paper Submission

The submission of papers, slides and poster files was possible from March 15th, 2011. A requirement for the upload of papers is the assignment of a unique paper code. All paper codes were assigned manually using the SPMS. This can only be done after the program committee has fixed the program and the speakers.

The paper submission deadline was on May 11th, 2011, five days prior to the conference start. The date has been chosen due to the large number of expected contributions to finish the paper processing in time with the end of the conference.

Proceedings Office and Paper Processing

To manage about 200 expected contributions four advanced editors were invited to process the papers and slides. Günther Rehm offered us a 5th editor in preparation for the IBIC conference in 2013, hosted by Diamond Light Source.

A proceedings office was set-up on the DESY campus to start processing papers directly after the submission deadline.

The following hard- and software was used in the DIPAC'11 proceedings office:

- Windows 7-PCs with Microsoft Office 2010
- Adobe Acrobat Professional Version 9

- PitStop Version 10
- A Macintosh Laptop to process Macintosh papers and slides brought by Jan Chrin
- A Win 7 Laptop to process LaTeX papers brought by Volker Schaa
- a color printer for paper hardcopies

On Sunday, May 15th, 2011, the editors and all the proceedings office equipment moved from the DESY campus to the conference venue. Paper processing continued on the ship from Monday morning until Wednesday noon, May 18th, 2011. The goal was to have a preliminary version of conference proceedings online on Wednesday at noon. This goal was achieved – the pre-press release was announced in the chairman's closing remarks on Wednesday evening.

THE FILE SERVER

To enable the file upload and download two DESY standard office PCs were set-up by a local Linux expert running Scientific Linux SL 5.5. The necessary upload/-download scripts were copied from the JAcoW website [2] and adapted to the DIPAC'11 needs. The total data stored on the local file server was about 7 Gbyte. A daily central backup service has been provided by DESY-IT. The file servers have not been moved to the conference venue, because the internet on board the Cap San Diego was a high-speed 50 Mbit connection.

It was necessary to open the DESY firewall for file upload which lead to a risk of hacker attacks. Therefore an "alarm script" was written and installed on the servers to log all file upload activities.

NETWORK INFRASTRUCTURE

A bi-directional point-to-point radio system with a 50 Mbit connection was setup by the DESY network group on board the Cap San Diego. The challenge was to provide an intranet on different decks for the proceedings office, the registration desk, the internet café and the deck where the industrial exhibition was located. The data transfer between DESY and the intranet was established using a secure VPN/Firewall connection. Five access points were setup with 15 switches. 360 RJ-45 ports were available and finally 2.5 km data cable was laid. It took a day each to install and remove the network equipment on the ship [3].

CONFERENCE GUIDE & ABSTRACT BOOKLET

Only after the submitted abstracts have been assigned a paper code can the abstract booklet be prepared. For DIPAC'11 all useful information about public transport in Hamburg, the conference venue and the conference organization were summarized and bound together with the abstracts to a "Conference Guide & Abstract Booklet". The booklet was set in A5 format and fitted with a spiral binding. It was printed in mid April 2011 and distributed to the participants via the conference bags.

Figure 1: Group photo taken by Dirk Noelle on board the Cap San Diego in May 2011.

CONCLUSIONS

With 291 attendees and 192 talks and posters presented on the Cap San Diego in Hamburg, DIPAC'11 was a very fruitful and productive conference. The chairman, Kay Wittenburg, and his local organizing team as well as the program committee made significant contributions to the success of the last DIPAC in this conference series. In the future DIPAC will be replaced by IBIC, the **I**nternational **B**eam **I**nstrumentation **C**onference which is a fusion of the Beam Instrumentation Workshop (BIW) and DIPAC. The 1st IBIC will be held in 2012 in Japan hosted by KEK, followed by the 2nd IBIC, hosted by Diamond Light Source in the UK in 2013.

ACKNOWLEDGMENT

REFERENCES

[1] InDiCo at DESY, http://www-it.desy.de/support/services/conferencing/indico.html.en

[2] See the following website for details: http://www.elettra.eu/JACoW/index.php?n=Main.FileUploading#upload

[3] Tobias Ladwig, DESY-IT, private communication