

CONFERENCE REPORT ON RUPAC'2012

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Abstract

RuPAC is a abbreviation of “Russian Particle Accelerator Conferences” – biennial conference every even year held in large Russian Accelerator laboratories (like JINR, ITEP, BINP, etc).

RuPAC'2012 is a XXIIIrd Conference in this series and was held in Petergof (Fig. 1), Saint-Petersburg, September 24–28, 2012 [1].

It was organized by Saint-Petersburg State University (SPbSU), Efremov Scientific Research Institute of Electrophysical Apparatus (NIIEFA), Joint Institute for Nuclear Research (JINR), Budker Institute of Nuclear Physics SB RAS (BINP), Scientific Council for Accelerators of Russian Academy of Sciences, State Atomic Energy Corporation ROSATOM, MONOMAX PCO and was hosted at faculty of Applied Mathematics and Control Processes of Saint-Petersburg State University. The Conference was supported in part by the Russian Foundation for Basic Research (RFBR).

SCIENTIFIC AND ORGANISATION BACKGROUND

The RuPAC scope provided a forum for exchange of new information and discussion in the field of acceleration science and engineering: particle beam physics, new projects of particle colliders, new accelerator designs and modernization of existing accelerator facilities for basic researches and applications (having an emphasize on medical applications). The scientific topics of the program are differ than at IPAC and consist of the next topics:

- Modern trends in accelerators
- Colliders
- Particle dynamics in accelerators and storage rings, cooling methods, new methods of acceleration
- High intensity cyclic and linear accelerators
- Heavy ions accelerators
- Synchrotron radiation sources and free electron lasers
- Magnetic and vacuum systems, power supplies
- Superconducting accelerators and cryogenics
- RF power structures and systems
- Control and diagnostic systems
- Ion sources and electron guns
- Medical and industrial applications
- Radiation problems in accelerators

260 participants took part at the RuPAC'2012 from 19 countries and 71 organizations. The 85 oral presentations and 166 posters have been presented during the Conference.

At the conference was organized an Industrial Exhibition, in which 5 companies took part.

The Accelerator Prizes for young physicists and engineers (under 35) for the best work presented at the Conference were nominated. The First Prize was awarded to *Yaroslav Getmanov (BINP, Novosibirsk)* who presented the paper “Longitudinal Stability of ERL with Two Accelerating RF Structures”. The Prize were awarded by the decision of the Selection Committee formed at the Conference and chaired by academician Sergey Ivanov (IHEP, Protvino).

IMPORTANCE OF CONFERENCE PLACE

The Conference place in Russia are very important. Table 1 shows the statistics of the last three Conferences. One can see that all numbers of last Conference are bigger than in 2010 for 50-85%. By this reason the Programme Committee are thinking to conduct next Conference in Moscow city, probably in Moscow State University (Fig. 2). The decision about place of the next Conference should be made in December 2012.

Table 1. Statistics of the last three Conferences. NP – Number of Participants, NOR – Number of Oral Reports, NPP – Number of Papers in Proceedings.

Year, City	NP	NOR	NPP
2008 Zvenigorod 50 km from Moscow	146	65	
2010 Protvino 100 km from Moscow	140	56	132
2012 Peterhof (Fig. 1) 100 meters from Royal Summer Palace and fountains	260 (185%)	85 (150%)	218 (165%)



Figure 1. The Grand Cascade and Samson Fountain.

SPMS AND CONFERENCE ORGANISATION

Traditionally for Russian Conferences we use the SPMS for scientific part preparing, abstract uploading and proceedings uploading only. The accommodation and

participants registration have been prepared and conducted by the local organized committee, especially by the MONOMAX agency.



Figure 2. Moscow State University, Main building.

RuPAC – the conference without review by SPMS (in opposite to FEL series, for example). But in any way the reviewing have been made by the members of Programme Committee and few papers have been withdrawn from the program due to their low scientific level.

ABSTRACTS UPLOADING

The most of the abstracts have been created in last two days before abstracts deadline (see Fig. 3). At the May, 14th and May 15th the 45% of all abstracts have been registered (141 of 316). 469 times this abstracts have updated. By the decision of Programme Committee and by owners 26 abstracts have been withdrawn. Thus we have 290 contributions before the conference starts.

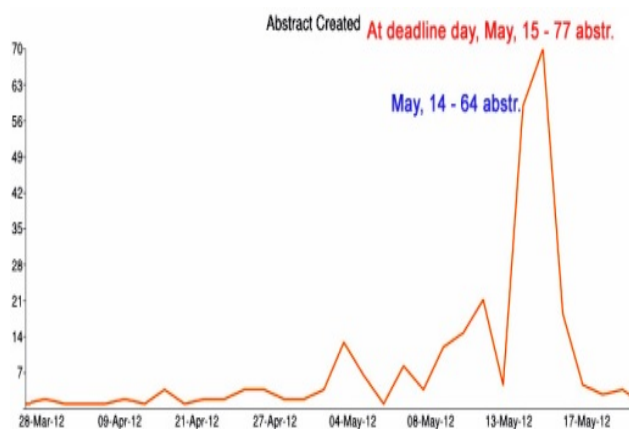


Figure 3. Abstract creation activity.

PAPERS EDITING AND PROCEEDINGS

The initial papers status during editing of the paper are presented on the Table 2. It was a unpleasant surprise that the Yellow dot is so big in comparison with RuPAC'2010 due to the possibility of PDF uploading by the authors. The most popular errors during the initial editing are presented in the Table 3.

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Table 2. Initial papers status during the editing.

RuPAC'2010, Protvino	RuPAC'2012, Peterhof
Red – 7%	Red – 10%
Yellow – 4.5%	Yellow – 45% (!!!)
Green – 88.5%	Green – 45%

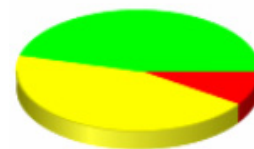
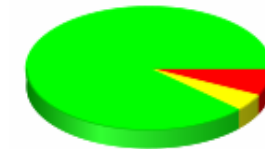


Table 3. Most popular errors during the papers editing.

Pct	Error Type	Action or reason
17%	FC01 No PostScript File or EPS files missing	Yellow for DOC files
16%	TC04 Figure formatting incorrect (outside margins, single/multiple line caption not centred/justified)	Word – figure captions
12%	TC01 Incorrect Title, Authors, Affiliation formatting	TeX (title not in bold) and Word (author list incorrect)
11%	TC02 Text formatting incorrect (paragraphs, section/sub-section headings, indentation...)	Word – section /subsection headings
10%	TC06 Reference formatting incorrect (indentation, hyperlink)	Word
7%	TC00 General Problems related to formatting	Word, few papers in TeX
5%	FC03 No Source Files	TeX
4%	UT00 General problems with template usage	Word, two papers in TeX

Traditionally for the RuPAC's the deadline have been extended, in this year till October, 10th. 193 papers (88%) have been uploaded before the first deadline (first day of the Conference) and 25 papers (12%) during next two weeks. At the end of October, 2012, the proceedings have been generated by JPSP and ready to upload to the JACoW server.

ACKNOWLEDGMENTS

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REFERENCE

[1] <http://www.apmath.spbu.ru/rupac2012/>