

**STATUS REPORT ON
IPAC'10
THE FIRST INTERNATIONAL
PARTICLE ACCELERATOR
CONFERENCE
Kyoto, 24-28 May 2010**

**Akira Noda, U. Kyoto
Christine Petit-Jean-Genaz, CERN
On behalf of
Shin-Ichi Kurokawa, KEK
Chairman of the IPAC'10 International OC**



From ...

- ❁ PAC, the North American event organized on a two year cycle in odd years since 1965 with 1200 to 1400 participants
- ❁ EPAC, the European event organized on a two year cycle in even years since 1988 with 1000 to 1200 participants
- ❁ APAC, the Asian event organized on a three year cycle, *competing with the above*, with 250 to 450 participants



We move to IPAC

- ✿ With the move to a 3-year cycle of the NA and European events, the International PAC comes into being with
 - IPAC'10 in Kyoto, 23-28 May 2010
 - IPAC'11 in San Sebastian, 5-9 September 2011
 - IPAC'12 in New Orleans, 20-25 May 2012
 - IPAC'13 in Shanghai
 - IPAC'14 - back to Europe ...time for proposals
 - IPAC'15 in Richmond, Virginia
 - IPAC'16 in Asia ...



The first IPAC ...

- ❁ Date: May 23(Sun)-May 28(Fri), 2010
- ❁ Venue: Kyoto International Conference Center (ICC Kyoto)
- ❁ IPAC'10 is organized under the auspices of ACFA
- ❁ OC Chair: Shin-ichi Kurokawa (KEK)
Deputy OC Chair: Katsunobu Oide (KEK)
- ❁ SPC Chair: Akira Noda (Kyoto University)
- ❁ LOC Chair: Toshiyuki Shirai (NIRS)
- ❁ Estimated number of participants: 800



KYOTO

23-28 MAY 2010

KYOTO INTERNATIONAL
CONFERENCE CENTER

INTERNATIONAL ORGANIZING COMMITTEE

Gianluigi Anduini, CERN
Han Ben Zvi, BNL
Caterina Biscari, INFN/LNF
Oliver Sim Br ning, CERN
Jeff Corbett, SLAC
Stephen Holmes, FNAL
Yukihide Kamaya, KEK
Shane Koscielniak, TRIUMF
Shin-ichi Kurokawa, KEK, Chairman
Vladimir Litvinenko, BNL
Guthrie Luo, NSERC
Richter Massey, Jussieu, Singapore
Ajmer Nadi, SESAME
Won Nankang, Pohang
Akira Noda, ICR, Kyoto University
Koji Noda, NIRS
Haruo Ohkuma, SPRING-8
Weerapong Pairsuwan, NNSRC
Christine Petit-Jean-Genaz, CERN
Paolo Pierini, INFN/LASA
Francisco Perez, ALBA
Thomas Roser, BNL

Vinod Chandra Sahni, RRCA
Ruediger Schmidt, CERN
Paul Schmitz, TRIUMF
Tsuneteru Shimake, RIKEN-Harima
Toshiyuki Shirai, NIRS
Sean Stricker, MSU
Victor Stuller, LSU/CAMD
Mitsuru Usaka, U. Tokyo
Kay Wittenburg, DESY
Andrzej Wolski, Liverpool University
Yoshihide Yamazaki, J-PARC
Chuang Zhang, IHEP
Zhenzhang Zhao, SINAP

SCIENTIFIC PROGRAM COMMITTEE

Oliver Sim Br ning, CERN
Jeff Corbett, SLAC
In Soo Ko, Pohang
Haruyo Koiso, KEK
Shane Koscielniak, TRIUMF
Vladimir Litvinenko, BNL
Takeshi Nakamura, SPRING-8
Akira Noda, Kyoto ICR, Chairman
Hiromi Okamoto, U. Hiroshima
Christine Petit-Jean-Genaz, CERN
Francisco Perez, ALBA
Thomas Roser, BNL
Chuangxiang Tang, TLB, Tsinghua
Junji Uekiwa, KEK
Jingqing Wang, IHEP
Jie Wei, IHEP, Beijing
Kay Wittenburg, DESY
Andrzej Wolski, Liverpool University

LOCAL ORGANIZING COMMITTEE

Toshiyuki Shirai, NIRS, Chairman
(ADVISORY BOARD)
Susumu Kamata, KEK
Noriyuki Kumagai, RIKEN
Hiroyuki Hama, Tohoku LNS
Kichiji Hatanaka, Osaka RCNP
Toshinada Hori, Hiroshima HISOR
Yoshiharu Mori, Kyoto RR
Sjoei Nagamiya, J-PARC
Norihiko Ozaki
Seiichi Tagawa, Osaka ISIR
Satoru Yamada, Gunma
Yasuhige Yano, RIKEN
Hideoaki Yokomizo, JAEA
Masakazu Washio, Waseda
(EXECA TYPE BOARD)
Mitsunori Fukuda, Osaka RCNP
Kazuo Furukawa, KEK
Yoko Hayashi, KEK
Takahiro Inagaki, SPRING-8
Osamu Kamigaito, RIKEN
Tatsuyoshi Kato, Osaka ISIR
Toshiteru Kii, Kyoto IAE
Eiji Kikutan, KEK
Kai Masuda, Kyoto IAE
Akihiko Mizuno, SPRING-8
Kazuyuki Nigorikawa, KEK
Hideoaki Ogaki, Kyoto IAE
Akihiro Shirakawa, KEK
Hikaru Souda, Kyoto ICR
Kaibo Yang, Osaka ISIR



The 1st International
Particle Accelerator Conference

IPAC 10





From Airport to
Conference Venue:

Exp. Train 75 min
+ Subway 20 min



~ 1.5 hr



Kyoto International Conference Center (KICC)



Views of the venue



First OC/SPC Meeting



Composition of Committees

- ❁ IPAC'10 OC/SPC has 50% membership from the region, and 50% from the rest of the world
- ❁ Scientific Advisory Board (90 renowned scientists worldwide: 40 from Asia, 25 from NA and 25 from Europe - provided advice concerning oral presentations and speakers)
- ❁ OC/SPC met twice (Kyoto, Shanghai), SPC/3 will take place at KEK in January (contributed oral selection, session chairs)
- ❁ IPAC is part of the JACoW Collaboration (16 events publishing proceedings at the same website (<http://www.jacow.org>))



Organizing Committee

From Asia

Shin-ichi Kurokawa (KEK, OC Chair)
Akira Noda (Kyoto, SPC Chair)
Toshiyuki Shirai (NIRS, LOC Chair, Co-opted)
Katunobu Oide (KEK)
Koji Noda (Nirs)
Haruo Okuma (Spring-8)
Tsumoru Shintake (RIKEN)
Mitsuru Uesaka (Tokyo)
Yoshishige Yamazaki (J-Parc)
Herber Moser (Univ. of Singapore)
Amor Nadji (SESAME)
Won Namkung (POSTEC)
Vinod Sahni (RRCAT)
Chuang Zhang (IHEP, Co-opted)
Zhentang Zhao (SINAP)
Jiuqing Wang (IHEP)
Gwo-Huei Luo (NSRRC)
Weerapon Pairsuwan (Siam Light Source)

At Large

Norihiko Ozaki (Industry, Co-opted)
Gregoriy Shirkov (JINR, Co-opted)

From Europe

Gianluigi Arduini (CERN)
Caterina Biscari (INFN/LNF)
Paolo Pierini (INFN/LASA)
Rudger Schmit (CERN)
Oliver Bruning (CERN)
Francisco Perez (Alba)
Kay Wittenburg (DESY)
Andrzej Wolski (Liverpool)
Christine Petit-Jean-Genaz (Expert xPAC organizer, Co-opted)

From NA

Ilan Ben-Zvi (BNL)
Stephen Holmes (FNAL)
Paul Schmor (Triumpf)
Victor Suller (LSU/CAMD)
Jeff Corbett (SLAC)
Shane Koscielniak (Triumpf)
Vladimir Litvinenko (BNL)
Thomas Roser (BNL)
Stan Schriber (MSU, Co-opted)



Scientific Programme Committee

From Asia

Akira Noda (Kyoto, Chair)

Juniji Urakawa (KEK)

Takeshi Nakamura (SPring-8)

Haruyo Koiso (KEK)

Hiromi Okamoto (Hiroshima)

Gwo-Huei Luo (NSSRC)

In Soo Ko (POSTECH)

Chuangxiang Tang (Tsuinghua)

Jie Wei (IHEP)

Norihiko Ozaki (Industry, Co-opted*)

From Europe

Oliver Breuning (CERN)

Francis Perez (Alba)

Andrezei Wolski (Liverpool)

Kay Wittenburg (DESY)

Christine Petit-Jean-Genaz
(CERN, Co-opted)

From NA

Jeff Corbett (SLAC)

Shane Koscielniak (TRIUMF)

Vladimir Litvinenko (BNL)

Thomas Roser (BNL)



Current Status

- ✦ Website is **on-line** (ipac10.org)
- ✦ General Announcement/Postcards/Posters: **mailing imminent**
- ✦ Registration for industry (booth rental) to begin **November 2009**
- ✦ Scientific Programme status:
 - ✦ Plenary sessions Monday a.m., Thursday p.m., Friday a.m.
 - ✦ Two oral sessions in parallel the rest of the time
 - ✦ Poster sessions de-coupled from oral presentations from 16:00-18:00 Monday to Thursday afternoons
 - ✦ All (50) invited speakers have accepted
 - ✦ Geographical distribution of speakers is 30% from each of the 3 regions
- ✦ Deadline for abstract submission: **9 December 2009**
- ✦ Registration for delegates: **early 2010**
- ✦ JACoW Conference (fully electronic and international editorial team), using the SPMS for scientific programme and publication at the JACoW site (jacow.org)
- ✦ Paper processing on-line during the conference starts on Thursday (20 May) with “pre-press” publication on the last day of the conference and final publication at the JACoW site a few weeks later



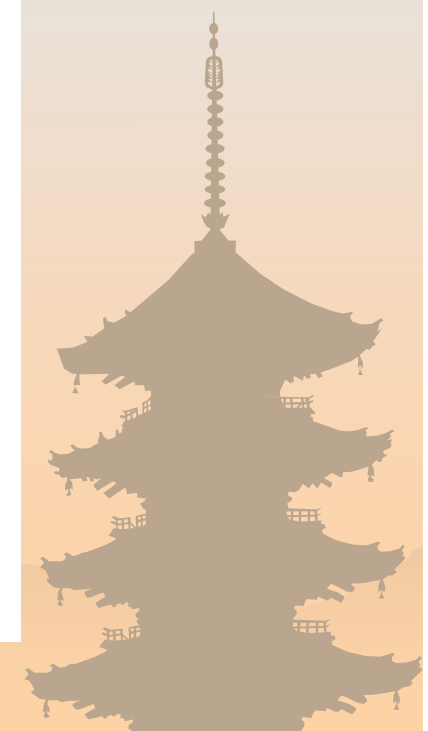
Overview of Scientific Programme

IPAC'10 Synoptic Table

Times	Monday, 24 May 2010	Tuesday, 25 May 2010		Wednesday, 26 May 2010		Thursday, 27 May 2010		Friday, 28 May 2010	
	Main Hall	Main Hall	Room A	Main Hall	Room A	Main Hall	Room A	Main Hall	
08:30		Chair:	Chair:	Chair:	Chair:	Chair:	Chair:	Chair:	
08:40		RHIC Luminosity Upgrade, <i>Hejran Pasha, BNL</i>	Commissioning of PETKA III, <i>Klaus Rehwalt, DESY</i>	Status and Performance of BEPCII, <i>Anging Wang, IHEP Beijing</i>	Review of Third Generation Light Sources, <i>Ron Niswonger, SLAC</i>	Commissioning of the EMMA Non-Storing FEL, <i>Thomas Edgewood, STFC/RAL</i>	Operation of the Large Scale Cryogenic Facility at the LHC, <i>Serge Chesler, CERN</i>	CP Violation Detected by Neutrino Experiments, <i>Makoto Kobayashi, KEK</i>	
08:50	Welcome by Shin-ichi Karimawa, Akira Noda, Toshiyuki Shima, OC, SPC and LOC Chairs	LHC Optics Model Measurements and Corrections, <i>Ryogita Tamai, CERN</i>	Status Report on Japanese XFEL Construction Project at SPring-8, <i>Tomonori Shiohara (JAXA/SPring-8)</i>	Future Electron-positron Colliders, <i>Vladimir Litvinenko, BNL</i>	Echo Enhanced Harmonic Generation, <i>Gennady Stupakov, SLAC</i>	International Design Study of a Neutrino Factory, <i>J. Scott Berg, BNL</i>	Review of SRP Cavities for ILC, XFEL and ERL, <i>Applications, Hiroaki Miyano, KEK</i>	Next Generation 3-factories, <i>Mika Masuoka, KEK</i>	
09:00	Chair:	Remaining hour devoted to 3 x 20 contributed oral presentations	Remaining hour devoted to 3 x 20 contributed oral presentations	Remaining hour devoted to 3 x 20 contributed oral presentations	Remaining hour devoted to 3 x 20 contributed oral presentations	Remaining hour devoted to 3 x 20 contributed oral presentations	Remaining hour devoted to 3 x 20 contributed oral presentations	Validation of CLIC Technology, <i>Jean-Pierre Deléglise, CERN</i>	
09:30	International Collaboration with High Energy Accelerators, <i>Albrecht Wagner, DESY</i>								
09:40	LHC Commissioning and First Operation, <i>Magpies Myers, CERN</i>							Laser Driven Acceleration, <i>Tom Antonsen, Duke University</i>	
10:00									
10:10									
10:20									
10:30		COFFEE BREAK 10:30-11:00							
10:35	Chair:	Chair:	Chair:	Chair:	Chair:	Chair:	Chair:	Chair:	
11:00	The First Angstrom X-rays Free Electron Laser, <i>Ashu Ghadimi, SLAC</i>	Review of Beam Dynamics Issues in MW Class Ion Linacs, <i>Fernando Depierreux, CEA</i>	Fermilab Project X, <i>Stephen Holmes, Fermilab</i>	Status of the ERL, <i>Kunio Tsubota, KEK</i>	The FAIR Accelerators: Highlights and Challenges, <i>Oliver Boenigk, GSI</i>	World-wide Developments of Intense ECR Ion Sources, <i>Hongwei Zhou, IAP</i>	Beam-beam Interaction in Next-Next High Luminosity Proton-Proton Colliders, <i>Mikhail Zobov (JINR/EAF)</i>	International Energy Related Developments, <i>TED & IEMEP, Webster, Brookhaven, IISN</i>	
11:10	World-wide Efforts on Rare Isotope and Radioactive Beams, <i>Osamu Kamigaito, RIKEN</i>	Electron Cloud at Low Intensity in CERN, <i>Muel Palmer, CEASSE</i>	Challenges & Solutions for J-PARC Con. and Op., <i>Takashi Kozuki, J-PARC, KEK & JAEA</i>	Remaining hour devoted to 3 x 20 contributed oral presentations	Session 5: 1 hour devoted to 3 x 20 contributed oral presentations	Session 4: 1 hour devoted to 3 x 20 contributed oral presentations	Remaining hour devoted to 3 x 20 contributed oral presentations	Cloud Project: Climate Research and Acceleration, <i>Super-Kamioka, JAEA</i>	
11:20									
11:30	Review of Cancer Therapy with Ions, <i>William Chu, LANL</i>	Pinch-off and Beyond: Beam Dynamics Simulations, <i>Jia Xu, ANL</i>	Production of a 1.3 MV Proton Beam at PSI, <i>Mike Seidel, PSI</i>					Non-Accelerator Based Aerophysics (Super Project), <i>James Cowan, U. Chicago</i>	
12:00									
12:10									
12:20									
12:30		LUNCH BREAK 12:30-14:00							
12:35	Chair:	Chair:	Chair:	Chair:	Chair: N. Ozaki	Chair: Prize Committee:		12:30-13:00 Closing Remarks:	
14:00	Experiences and Lessons with a High-power SC Proton Linac, <i>Tim Zhang, ORNL</i>	Commissioning and Results for the Cornell HP DRILL Injector, <i>Roscoe Danham, CEASSE</i>	The Role of Accelerators in the Energy Problem, <i>Richard Sheffield, LANL</i>	Recent Developments in Diagnostics with SR in Light Sources, <i>Shouyong Bi, JASS/SPring-8</i>	Special Session for Industry: Three presentations on Experiences on Academic-Industry Collaboration in Asia, North America and Europe by Jairo Simoes, KEK, Wu-Dang (JWU) Heng, ANL and Dieter Engel, CELLS-ALB	Accelerator Prizes (4) Prize Presentations (one 30 minutes, one 30, plus one exceptional prize (one) 1 hour long) plus 2 Student Prizes, total time 1 hour 30 minutes		Allocations following SPCU, invited oral only Session 1: 3 hours 2 5 Session 2: 2.5 hours 2 4.5 Session 3: 2.5 hours 2 4.5 Session 4: 4 hours 1 5 Session 5: 2 hours 2 4 Session 6: 2 hours 2 4 Session 7: 2 hours 2 4 Session 8a: 1.5 hours 1 2.5 Session 8b: 2 hours 0 2 No Classification: 2.5 0 2.5	
14:10	Cooler Storage Ring Con. and Energy Modulation for Carbon Therapy, <i>Jia Wu, XJ, IAP</i>	Development and Operation of the Superconducting Insertion Devices, <i>Chang-Sheng Jiang, NSRRC</i>	Heavy Ion Programs for Applications and Fundamental Research at JINR, <i>Igor Morozov, JINR</i>	Insights from the AT22 Facility, <i>Nobuhiko Terawawa, KEK</i>	Three presentations on the status of the accelerator industry in Asia, North America and Europe by Chuanming Tang, IISN, James Clouston, Horton, BNL and Dieter Engel, CELLS-ALB	Chair: 13:30 "International Talk" (IT) Up to 10:00		Total of 24 hours Total time available excluding Prizes/Introductions/Introductions/Closing remarks: 39 h Plenary invited: 6 hours Plenary: 33 hours	
14:20	Space for contributed oral to be allocated next January	Remaining hour devoted to 3 x 20 contributed oral presentations	Remaining hour devoted to 3 x 20 contributed oral presentations	Remaining hour devoted to 3 x 20 contributed oral presentations	Remaining hour devoted to 3 x 20 contributed oral presentations				
14:30									
14:40									
14:50									
15:00									
15:10									
15:20									
15:30									
15:40									
15:50									
16:00		POSTER SESSIONS 16:00-18:00							

Session Code Colour Legend

Circular Colliders (1)	Synchrotron Light Sources and FELs (2)	Linear Colliders, Lepton Accelerators and New Acceleration Techniques (3)	Hadron Accelerators (4)	Opening, Closing and Special Presentations without specific classification
Beam Dynamics and Electromagnetic Fields (5)	Accelerator Technology (7)	Application of Accelerators, Technology Transfer and Industrial Relations (8)	Beam Instrumentation and Feedback (6)	



A Glimpse of Opening, Closing and “Special” Presentations

❁ Opening Session

- International Collaboration with High Energy Accelerators, **Albrecht Wagner, DESY**
- LHC Commissioning and First Operation, Stephen Myers, CERN
- The First Angstrom X-rays Free Electron Laser, **John Galayda, SLAC**
- World-wide Efforts on Rare Isotope and Radioactive Beams, **Osamu Kamigaito, RIKEN**
- Relativistic Ion Beams for Treating Human Cancer, **William T. Chu, LBNL**

❁ Special Presentation

- The Spirit of Tea, **Genshitsu Sen, Tokyo, Master of Tea**



A Glimpse of Opening, Closing and “Special” Presentations

✿ Closing Session

- CP Violation Detected by Accelerator Experiments, **Makoto Kobayashi, KEK**
- Next Generation B-factories, **Mika Masuzawa, KEK**
- Validation of CLIC Technology, **Jean-Pierre Delahaye, CERN**
- Laser and Beam Plasma Wakefield Accelerators, **Tom Katsouleas, Duke University**
- International Energy Related Developments, ITER and IFMIF, **Norbert Holtkamp, ITER**
- Cloud Project: Climate Research with Accelerators, **Jasper Kirkby, CERN**
- Non-Accelerator Based Astrophysics (Auger Project), **Hans Bluemer, FZK**



Budget

Income (1000 delegates)	
Registration Fee	53 M JPY / 390 k Euro
Industrial Exhibition	15 M JPY / 110 k Euro
Support from Institutions	11 M JPY / 74 k Euro
Donation	2 M JPY / 15 k Euro
Expenditure	
Preparation	8 M JPY / 60 k Euro
Cost of Venue	18 M JPY / 130 k Euro
Conference Cost	40 M JPY / 290 k Euro
Student Grant	10 M JPY / 73 k Euro
Proceedings and others	5 M JPY / 36 k Euro

Fees

Participant (early)	60,000 JPY/620 USD, 440 Euros)
Participant (late)	70,000 JPY/720 USD, 510 Euros
Students	15,000 JPY/160 USD, 110 Euros
Companions	10,00 JPY/100 USD, 70 Euros
Exhibition (early)	300,000 JPY/3,100 USD, 2,200 Euros
Exhibition (late)	350,000 JPY/3,600 USD, 2,600 Euros

Participant registration fees include all conference material, breaks, a reception and conference dinner. The proceedings are published on JACoW, plus a version that can be downloaded to desktop pcs



ACFA Accelerator Prizes

- ❁ A **Prize** for outstanding work in the accelerator field with no age limit. The winner will receive a plaque and make an oral presentation during the Accelerator Prizes Special Session.
- ❁ A **Prize** for an individual in the early part of his or her career, having made a recent, significant contribution to the accelerator field. The winner will receive a cash prize and make an oral presentation during the Accelerator Prizes Special Session.
- ❁ **Best student posters**, awarded to 2 students whose work, presented in the special student poster session, is particularly meritorious.

