

# AFAD

Asian Forum for Accelerator and Detector

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AFAD Inauguration February 5, VECC  
Kolkata

- New development of **JAAWS**

*Joint Asian Accelerator WorkShop*

- Initiative to enhance collaborative activities in Asia for accelerator related technology developments including practical applications in variety of fields ( industrial, medical, security ....large or small)

----Proposed in 2009 by the directors of several Asian Labs.

# What is AFAD?

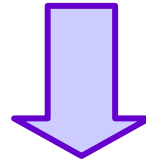
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- Accelerator and its related technologies for photon science
  - BAPS, PLSII, NSRRC, THz, RF gun, New X-ray source, XFEL...
- Accelerator and its related technologies for hadron (neutron) science
  - CSNS, J-Parc, PEFP, KoRIA, CW Linac for , ADS/BNCT, Nuclear data base/Simulation, Compact neutron, FFAG, Digital accelerator...
- Detector Technology Development
  - GEM, Cryogenic detector, liquidTPC, Neutron imaging, PPD, SOI, 3D silicon, ASIC...

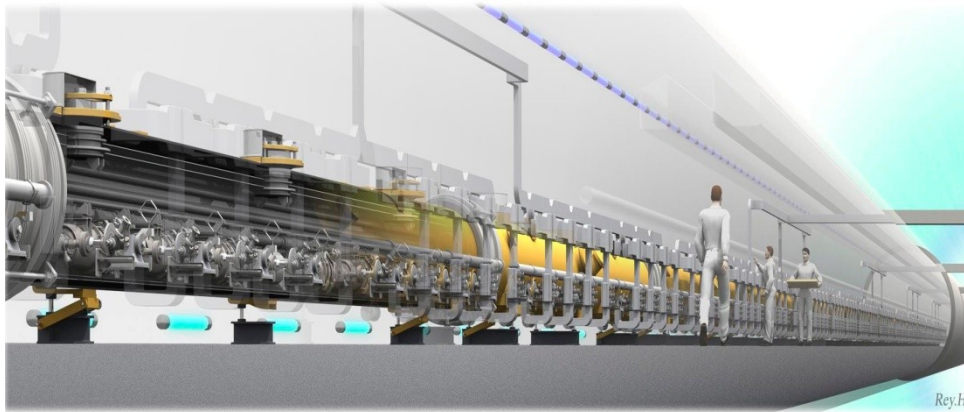
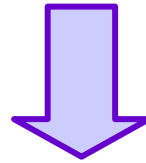
# Parallel discussions

- Accelerator and its related technologies for other fields
  - Electron beam processing, mutation, Cancer therapy,
- R&D for innovative accelerators

# One of key Issues : Spin-Off of Accelerator and Detector Technologies to the Society



Advanced Accelerators & Detectors :  
Treasury of Cutting-Edge  
Technologies



Collaborative R&D for  
Fundamental research



JAAWS participants

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- Linac construction at RRCAT/SAMEER(INDIA-Japan-Korea)
- Small scale neutron source, its application and detector (China-Japan-Korea)
- Liquid TPC related technologies (Two phase operation, cryogenics, purification system)(Russia-Japan-China)
- SOI sensor /electronics developments (Russia-China-Korea-Japan)
- “School for Accelerator Technology and Applications” at IIT Bombay, Mumbai

**Collaboration**  
**emerging from**  
**JAAWS**

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- JAAWS was a successful and useful Workshop to meet each other and to discuss the technological details in the various areas of the Accelerators applications
- From Work Shop to Forum
  - to keep constant and sustainable discussions and collaborative activities among Asian laboratories.

# JAAWS to AFAD:

Workshop on

## Asian Forum for Accelerators & Detectors (AFAD-2012)

Organised by :  
**Variable Energy Cyclotron Centre**  
 Department of Atomic Energy  
 1/AF Bidhan Nagar, Kolkata-700064, India



The AFAD-2012 workshop will be held at Variable Energy Cyclotron Centre, Kolkata, India during 6-7<sup>th</sup> February, 2012, followed by 19<sup>th</sup> meeting of the Asian Committee for Future Accelerators (ACFA) on 8<sup>th</sup> February, 2012. AFAD is the new name for the sequel of the workshops held earlier as Joint Asian Accelerator Work Shop (JAAWS) in China and Korea. AFAD is an initiative to enhance collaborative activities among Asian accelerator-based laboratories in the field of accelerator and detector related technology development and its applications.

<b>Local Organising Committee :</b>	<b>Topics :</b>
R.K. Bhandari (Chair)	• Photon Science
Alok Chakrabarti (Convener)	• Hadron Science
Subhasish Chattopadhyay	• Detectors
Arup Bandyopadhyay	• Innovative Acceleration Techniques
Vaishali Naik	• Industrial & Medical Applications
Tapas Samanta	
N.V.S.V. Prasad	

*Correspondence for invitation letter, registration & any other information :*

Convener, AFAD – 2012, VECC, 1/AF Bidhan Nagar, Kolkata 700064, India  
 Mail : [afad@vecc.gov.in](mailto:afad@vecc.gov.in); Ph : +91 33 2321 2885 Fax : +91 33 23346871  
 Web link : <http://indico.vecc.gov.in/indico/conferenceDisplay.py?confid=10>

- New category added
  - Computing/Networking
- More countries joining
- Hot and frank discussions expected in comfortable winter on the spiritual land --TO FIND anything worth exchanging, sharing, working together or helping each other.

Kolkata,

India



- Contact person as a representative to oversee

- Alok Chakrabarti (VECC/India):
- Jie Gao (IHEP/China):
- Junji Haba (KEK/Japan):

- Accelerator and its related technologies for photon science

- S.K. Deb (RRCAT/India):
- Sang Hoon Nam (PAL/Korea):
- C.S. Hwang (NSSRC/Taiwan):
- Junji Urakawa (KEK/Japan):
- Dong Wang (SINAP/China)

- Accelerator and its related technologies for hadron (neutron) science

- Shinian Fu (IHEP/China):
- Bob Hsiung (NTU/Taiwan):
- Hirohiko Shimizu (Nagoya U/Japan)
- Pitambar Singh: (BARC/India)

- Detector Technology Development

- S. Chattopadhyay (VECC/India):
- Yuekun Heng (IHEP/China):
- Yee Hsiung (NTU/Taiwan):
- Shoji Uno (KEK/Japan):

- Accelerator and its related technologies for other fields

- Augustine Chen (NCU/Taiwan):
- D. Kanjilal(IUAC/India):
- Ken Takayama (KEK/Japan):
- Chuanxiang Tang (TsingHua Univ./China):
- Chaoen Wang (NSRRC/Taiwan):

- R&D for innovative accelerators

- Jie Gao (IHEP/China):

- P.A. Naik (RRCAT/India):
- Mitsubiro Yoshida (KEK/Japan):

- Computers and network

- Gang Chen (IHEP/China):

*Sorry for the incompleteness, several important names might be missing!*

1/27/12

- Inspired by the discussion in the previous ACFA in Shanghai, we propose to establish a **standing** body of the contacts from several countries not only for annual meeting but also for keeping uninterrupted exchanges.
  - We have already identified the contacts for all the categories from India, China, Japan and some from others.
- Let's have a discussion to complete the list in the dinner and the parallel sessions on the 2nd day. (with the name of chair, hopefully)

# Toward future of AFAD

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