

-2500, -81, -36, -19, -18, -5, Today,
and Future

Shin-ichi Kurokawa
Cosylab Japan and KEK

At the occasion of 50th Anniversary
of Particle Accelerator Conferences

IPAC15, Richmond

On behalf of Asian Accelerator Communities

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My First Encounter of International Accelerator Conference

1979 PARTICLE ACCELERATOR CONFERENCE

***ACCELERATOR ENGINEERING
AND TECHNOLOGY***

**San Francisco, CA
March 12-14, 1979**

Published in IEEE Transactions on Nuclear Science, June 1979, Volume NS-26, Number 3

-2500

Invention of International Conferences by Confucius (孔子)



Confucius B.C. 552 - B.C. 479

学而時習之。不亦說乎。

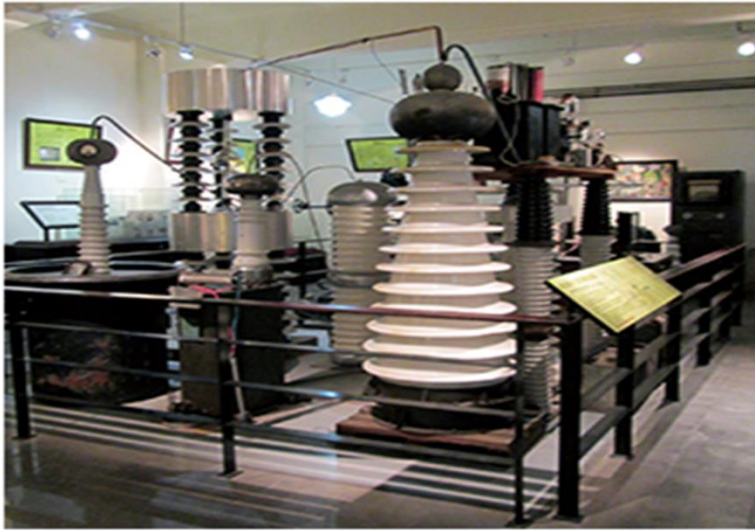
有朋自遠方來。不亦樂乎。

What Happiness it is to learn
and from time to time to
review!

What Happiness it is to have
friend come afar!

-81

The First Accelerator in Asia in 1934



Cockcroft-Walton Linear Accelerator was built at the University of Cambridge's Cavendish Laboratory in 1932 and carried out the first bombardment of an atomic nucleus in history.

In 1934, Japanese physicist Arakatsu Bunsaku, backed by his Japanese and Taiwanese students, constructed Asia's first Cockcroft-Walton Linear Accelerator. That same year, Arakatsu employed the accelerator to conduct the first artificial nuclear disintegration in Asia on the campus.

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ACFA, Asian Committee for Future Accelerators was established in 1996



Sum of the population of
ACFA member countries
>50% of the world population

The primary purpose of ACFA shall be to strengthen regional collaboration in accelerator-based science. In particular, ACFA seeks cooperative ways

- To facilitate efficient utilization of existing human and material resources,
- To bring up scientists of the next generation, and
- To encourage future projects in Asia and to make recommendations for them to governments.

Future Prospects of Asia

- The Milken Institute in Los Angeles, founded by renowned financier and philanthropist Michael Milken, holds an annual economic conference of international business leaders to assess the global market outlook. At the April 2006 conference, Milken himself envisioned the future of an Asia re-assuming its early 19th-Century global status.
- "By 2030, Asia will be 58% of the world's GDP [Gross Domestic Product]," Milken said. "By 2050, China will be the largest economy, with 44.5% of world GDP vs. 35% in the US. India will be at 28%."

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ACFA created APAC and 1st APAC was held in 1998 in Tsukuba

- 1st APAC in Tsukuba, Japan, in 1997
- 2nd APAC in Beijing, China, in 2001
- 3rd APAC in Gyeongju, Korea, in 2004
- 4th APAC in Indore, India, in 2007

Numbers of Participants in these APACs were limited to ~300 - ~500

IPAC was created in 2010
by merging PAC, EPAC, and APAC.

IPAC in Asia (more than 1200 participants in 2010 and 2013)

- 2010 1st IPAC in Kyoto, Japan
- 2013 4th IPAC in Shanghai, China
- 2016 7th IPAC in Busan, Korea
- 2019 10th IPAC in Melbourne, Australia

Words of Congratulation

- Asian Accelerator Community is deeply grateful to the founders of PAC, Dr. R.S. Livingston and Dr. L Costrell. We also highly appreciate our American colleagues for their sustained efforts to make the PAC grow and internationalized.
- This and the sprit of internationalization of our community in the world naturally have led to the creation of IPAC by merging PAC, EPAC, and APAC.
- Let us work together to further strengthen international cooperation in our field. We, Asians, are determined to do our best.

*Thank you for your
Attention !*