

Snowmass2021 - Letter of Interest

Academia and Industry Collaboration in Japan

CEF Topical Groups: (check all that apply /■)

- (CEF1) Applications & Industry
- (CEF2) Career Pipeline & Development
- (CEF3) Diversity & Inclusion
- (CEF4) Physics Education
- (CEF5) Public Education & Outreach
- (CEF6) Public Policy & Government Engagement
- (Other) [*Please specify frontier/topical group(s)*]

Contact Information:

Name (Institution) [email]: masanori_matsuoka@mhi.co.jp

Collaboration (optional):

Authors: (long author lists can be placed after the text)

Masanori Matsuoka

Abstract: (maximum 200 words)

The accelerator facility for high energy physics such as the ILC is huge and huge. Then realization of such a huge facility needs not only academia community consensus but also other stakeholders' understanding. Based on this situation, Advanced Accelerator Association for promoting science and technology or AAA was established as an effort of academia and industry collaboration in order to realize the ILC in Japan in 2008. AAA has promoted the ILC project as a core project to strategically create a novel relationship among industry, government, and academia. AAA members of 110 companies and 40 academia institutes strongly support the activities for the ILC and the other projects promotion. AAA activities and challenges for the realization of ILC are described.

1. Outline of AAA

Advance Accelerator Association for promoting science and technology or AAA¹⁾ whose concept shows in fig.1 was initiated by three persons from academia, politics, and industry who are Masatoshi Koshiba, Kaoru Yosano, and Takashi Nishioka in the chart of the organization of fig.2. Takeo Kawamura, former Chief Cabinet Secretary and Minister of MEXT took over supreme advisor from Kaoru Yosano who died in 2017. AAA Board consists of executives of leading companies and leading researchers in Japan. The color of name in fig.2 represents the field of each person. Key persons come from government, university, National laboratory, and industry.

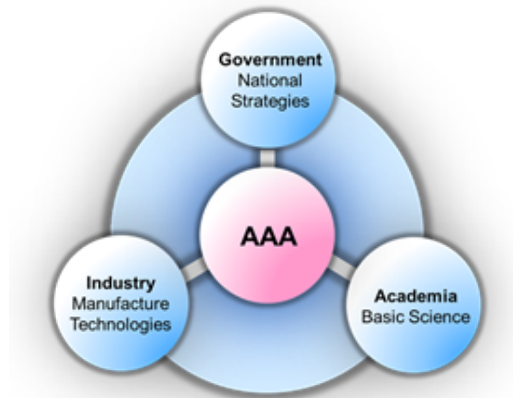


Figure1 Concept of AAA

Color of Name: **Government (Incl Politician)**
University
National Laboratory
Industry (Incl Private Institute)

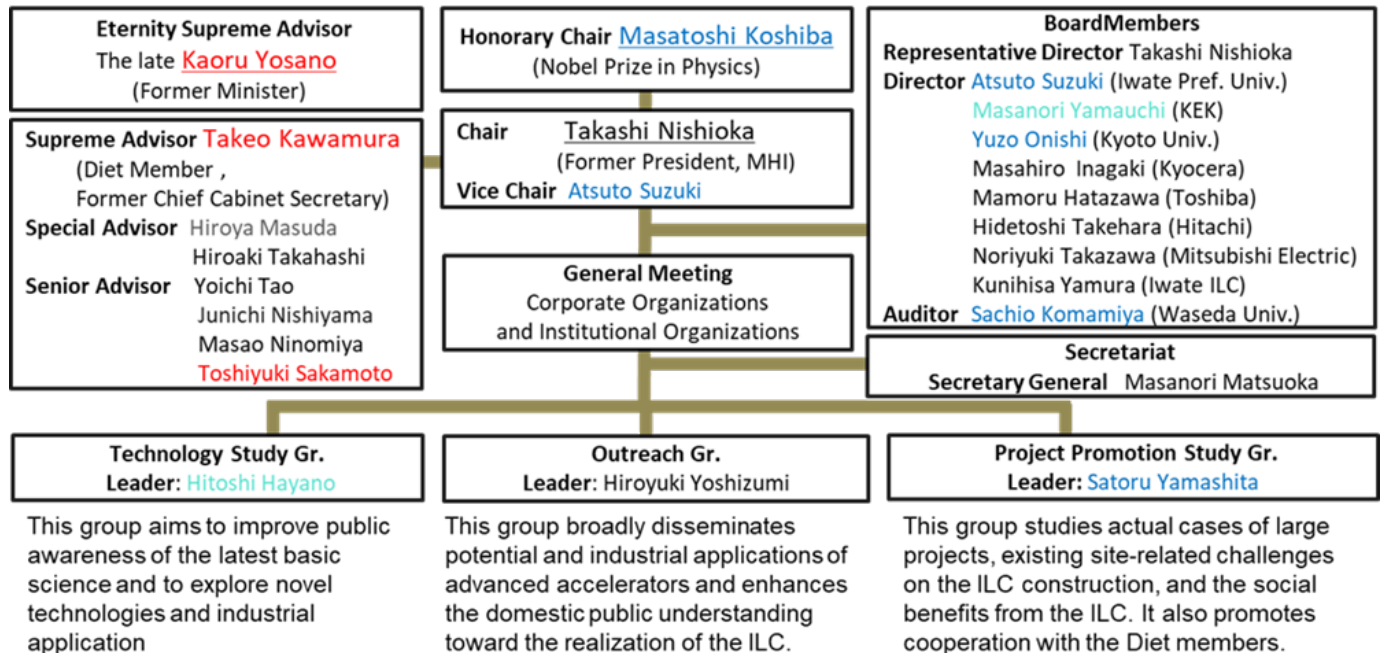


Figure2 Organization of AAA

AAA has three groups to conduct the ILC promotion and other activities. First, Technical study group aims to improve public awareness of the latest basic science and to explore novel technologies and industrial application. Secondly, Outreach group broadly disseminates potential and industrial applications of advanced accelerators and enhances the domestic public understanding toward the realization of the ILC. Finally, Project promotion study group studies actual cases of large projects,

existing site-related challenges on the ILC construction, and the social benefits from the ILC. It also promotes cooperation with Diet members.

2. ILC promotion by AAA

We have made efforts on the purpose to gain supporters who has influence over government policies. We supported establishment of the ILC100 committee which consists of leading persons in variety area. Figure 2 is a photo of establishment ceremony of the ILC100 committee. We also have provided occasions for international discussion by politicians by means of holding the international events. Figure 3 shows the first event of US-Japan Advanced Science and Technology Symposium in Washington DC in 2013. Following this event, we held the international events not only in US but also Europe.

On the other hand, we have conducted many kinds of activities in order to get understanding of public people. For example, we have informed approximately 10 thousand people of significance of the ILC and the other accelerators through 35 symposiums since 2008. And we are posting the ILC promotion video²⁾ on the website and sending messages regarding the ILC through SNS³⁾ in cooperating with the ILC supporters³⁾ headed by a famous anime director, Mamoru Oshii.

Regarding technical matters, we have studied the technology spill over the ILC and shared the technical challenges of the ILC. In addition, we have been working on the ILC construction and town planning issue in collaboration with the local government. AAA also focus on “Green ILC” for the purpose of saving energy in the ILC operation.



Figure3 Establishment Ceremony of ILC 100 Committee on 29, Jun 2018



Figure4 US-Japan Advanced Science and Technology Symposium in Washington DC in 2013

3. Conclusion

We will continue to promote the ILC which will be an indispensable facility to progress physics which has been leading not only the other science and technology but also industry. We welcome suggestions and support for improving our activities to promote the ILC and other projects.

References:

- 1) Homepage of AAA, <http://aaa-sentan.org/en/>
- 2) AAA Channel of YouTube, <https://www.youtube.com/user/SentanKasokukiTV>
- 3) Homepage of ILC supporters, <https://ilcsupporters.jp/>