

## COLLABORATION AMONG EAST ASIAN ASTRONOMERS AT SUBARU TELESCOPE

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### ABSTRACT

Subaru Telescope proposes to hold Subaru East Asia Youth School (Tentative Name) in 2005.

*Key words* : collaboration — school:youth — Subaru:

### I. INTRODUCTION

Subaru Telescope has conducting its science operation since 2000. Subaru Telescope is the Japan National telescope and has been fully funded by the Japanese government. Therefore, the government or its subsidiary, National Astronomical Observatory of Japan can make a decision who is eligible to use the telescope. Since the telescope is primarily built to promote and stimulate astronomy of Japan, primary users are Japanese astronomers. However, Noumaru emphasized in the presentation of the last EAMA that Subaru had offered the limited amount of time (10% nominal) to worldwide researchers. In reality, very few researchers from East Asia have gotten telescope time except those who are based on research/education institutes in Western countries. Table 1 shows the number of accepted proposals whose PI or CoI is from institutes in East Asia. Proposals whose PI or CoI is Japanese belonging to East Asia Institutes are excluded. Overall rate of competition is between 5 and 7, depending of semesters. I'm quite not sure how many proposals have been submitted by researchers in East Asia, however, this fact may create an impression to them that Subaru is far from them.

Meanwhile, Subaru Telescope will be required to maintain its operation and to maximize its performance within the limited budget. Under these circumstances, collaboration with other institutes may become critical for instrument development or for telescope improvement. Subaru may need to receive contracts to build telescopes or instruments for other projects. It may be considered as a Subaru strategy that we maintain close relationship with East Asian countries/regions for the future partnership for the survival in 30-m class telescope era which will not be so far.

Partnership or collaboration will lead to more access to the telescope. To promote partnership and collaboration among East Asian researchers which take places

at Subaru Telescope, we are proposing to hold Subaru East Asia Youth School (Tentative Name) in 2005.

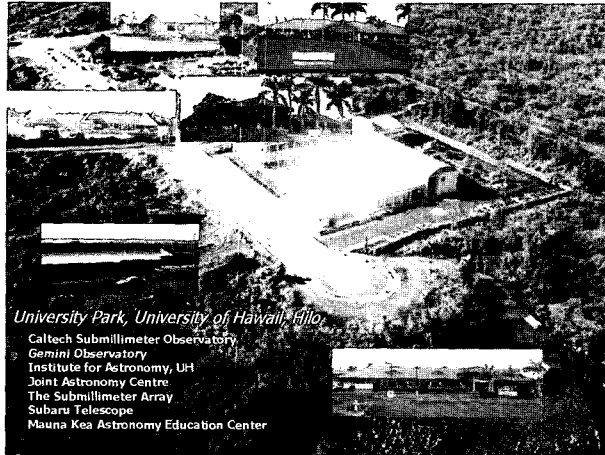
### II. GOAL OF THE SCHOOL

The school and the resulting collaboration are beneficial both to East Asian communities and Subaru Telescope. Participants will know what Subaru Telescope is and how to access it. We expect increasing number of quality proposals from their communities and thus increased number of scientific production by East Asian researchers using Subaru Telescope. Institutes like Subaru Telescope are evaluated with the number of science production by the users. Having quality users and their support are vital for continuation of the telescope project. Another expectation is promotion of collaboration for the development of new instruments and for improvement of the telescope. This involves the investment of both cost and manpower.

For the same reason shared by participants to EAMA, Subaru Telescope seeks stronger partnership with researchers in East Asian countries. Also, we would like to share where we are based on - Hawaii - as good research and development environment. Researchers who attend the school will be beneficial to themselves if they understand the uniqueness of Hawaii because;

- a. Telescope and instrumentation are very active in Hawaii
- b. Multiple large telescopes are operated in Hawaii
- c. Active research takes place in Hawaii
- d. Research institutes from various countries are based on Hawaii and communication and collaboration among them are very close.
- e. University of Hawaii is active in education of astronomy

Fig. 1 is Aerial photograph of the University Park, University of Hawaii, Hilo with overlaid pictures of facilities located in the University Park. It would be advantageous to both participants and Subaru that the participants can recognize Subaru and Hawaii as a possible base of their activity or as a partner.



**Fig. 1.**— Aerial photograph of the University Park, University of Hawaii, Hilo. Located at the center is the base facility of Subaru Telescope.

### III. SCHEDULE

Here are the current plan and schedule of the Subaru East Asia Youth School;

- a. Holding the school once in FY2005 (Currently targeting October or November, 2005). Holding annually thereafter.
- b. Seats are for ten to fifteen frontline researchers including graduate students from China, Korea and Taiwan.
- c. Course length is three to four days excluding dates of arrival/departure. The course includes lectures in Hilo and visit to the summit. Topics of the

lectures may include introduction to Subaru, research highlights, how to write a proposal that works, introduction to neighbor observatories and discussion.

- d. We will explore the possibility to hold the school with the cooperation of neighbor observatories and UH (Korea has partnership with CFHT and Taiwan is a sponsor of the Submillimeter Array project).
- e. SOC (Science Organizing Committee) will consist of a representative from China, Korea, Taiwan and Subaru and will make a selection of participants and steering. LOC (Local Organizing Committee) will consist of mainly Subaru staff and carry out the business for the school.

TABLE 1.

Semester	PI	CoI	% PI+CoI	Submitted - PI
S00	0	0	0	2
S01A	0	0	0	3
S01B	0	1	3	3
S02A	1	0	2	5
S02B	0	1	3	3
S03A	0	1	2	3
S03B	0	2	4	6
S04A	0	3	7	7
S04B	1	0	3	2

Number of accepted proposals whose PI or CoI is from institutes in East Asia. Proposals whose PI or CoI is Japanese belonging to East Asia Institutes are excluded. Overall rate of competition is between 5 and 7, depending of semesters.