Testcase of Science Cafe with Confrontation Axis Considerd to Complex of Earth and Space Science

*Harufumi Tamazawa[1,2], Yuko Ikkatai[3]

1. Disaster Prevention Research Institute, Kyoto University, 2. Faculty of Fine Arts, Kyoto City University of Arts, 3. kabli Institute for the Physics and Mathematics of the Universe, University of Tokyo

Science policies related to earth and planetary science include those with large scale, especially in connection with space science, and it is not clearly shown what kind of consciousness the public has due to high expertise, and as a result experts is the field. On the other hand, as far as the development of science and technology (ST)as well as space development, dialogue about science and technology with the public is shown as a goal from the government, and it is one thing to grasp what the public think about the policy Department. In the social survey on the space policy conducted on the Internet in 2014, the difference of images between space development and other ST policies, etc. are also being investigated, but on the other hand, regarding the specific budget allocation, It is difficult to judge whether or not you have a concrete image, such as answering to do (Fujita &Taromaru 2015). In 2017, we conducted an interview survey on why I responded to respondents after asking about the same contents, but some anserwed that it is difficult to consider space development compared to ST related to daily life (Tamazawa et al. 2018). Town meetings and public comments are being held as concrete attempts to foster opinions while encouraging citizens to feel familiar. It is a question to be examined including knowing how citizens think and thinking about how to reflect it in policy and effective method development.

Assuming to examine individual policy issues, it is necessary to share the process of grasping the background of the problem and organizing the problems, and how to visualize the problem and to discuss it is a challenge. is there. Especially, event formats such as those provided by a single science cafe, such as those provided by a regular science cafe, can deviate from the purpose of "gathering opinions" due to the information transmission and reception between participants and host. What type of format is effective to encourage participants to have their own opinions and think subjectively.

In January 2018, in a science café in a science café at the wine bar, a discussion on ST and society at the university, two topic donors were discussed and opinions of the participants were chronologically aligned We made a test case of a science cafe in a controversial style, taking the approach of visualizing. Under either theme "Setting the environmental change of Mars is allowed", from the topic provider, after giving representative opinions from the standpoint of favor and opposition, after agreeing and opposing axes on the white board , And asked the magnet to indicate the position of the participant's opinion. In order to see the transition of opinion after discussion among the participants, they asked for the position of opinion again after the discussion.

In the case of doing it in a university class, after the initial opinion, we had a discussion by the group including approval and opposition for each group, asked for suggested criteria and presented the opinions of the individual again There were participants who changed opinions on the other side from the viewpoint of environmental ethics, generation ethics, diversity. On the other hand, participants who strongly agreed or opposed from the beginning did not see much change.

In the event held at the wine bar, the agreement side agreed more, the other side moved the opinion to the other side more. There was an opinion that the opinion after the end of the science cafe considered

©2019. Japan Geoscience Union. All Right Reserved.

taking care of participants into consideration. In both cases, it turned out that the position of the participants varied to some extent through the visualization of opinions, and that there were constant layers of standing position changes with the discussion. In general events related to ST such as science cafe, there is a tendency for people with a high level of interest in science and technology to participate (Kano, Mizumachi et al.), And such layers include a place of opinion such as question and answer at the event If there is, there is a possibility that the speaking participant may stand behaving apart from its own opinion transition, contributing to facilitation and activation of the discussion, on the other hand, excessive role consciousness is said to be a citizen's awareness From the point of view it may be possible that it is separate from the person's own opinion.

References:

T. Fujita, H. Taromaru (2015). Kyoto Journal of Sociology, 23, 1-17

K. Kano, E. Mizumachi, T. Iwasaki, H. Isobe, Y. Kawatani, H. Maeba (2013) Japanese Journal of Science Communication, 13, 3-16.

H Tamazawa, H. Isobe, R. Nagashima(2018) Proceeding of the 62nd Space Science and Technology Conference

This work is supported by JSPS KAKENHI Grant Numver JP18H05296.

Keywords: Public Engagement of Science, Science Policy, Scinece Cafe, Active Learning

©2019. Japan Geoscience Union. All Right Reserved.