

The aim of this session

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1. Research Organization of Information and Systems

The Acquisition, Technology & Logistics Agency (ATLA), Ministry of Defense, Japan established a funding system in 2015 for basic research projects that can be bases for future equipment of the Self Defense Force (SDF) and since then it has invited applications from the civil academic sectors such as universities, national research and development agencies, and private companies. The Japanese academic community has expressed serious concerns about the funding system, since conducting research with this funding system may violate the widely accepted code of "Refusing research with the aim of war" issued by the Science Council of Japan (SCJ) in 1950 and 1967. The SCJ has set up a committee dedicated to this issue and it is planned to express its opinion on the matter in April this year. Considering that geophysics was occasionally related to military researches in the past and our community is partly involved in the present funding program, it is important and timely for the sound development of our community to discuss extensively how the earth and planetary science community should deal with research whose outcomes might be used for military (including defense) activities. Focusing particularly on research aiming primarily at future SDF equipment, the session aims at understanding and sharing a variety of thoughts and opinions on how the ATLA funding system affects the academic community, researchers and society.

Keywords: research fund for future defense equipment, earth and planetary sciences, code of "Refusing research with the aim of war" by SCJ

The Science Council of Japan on ATLA research fund, Ministry of Defense

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In connection with the launch of the funding system by Acquisition, Technology & Logistics (ATLA), Ministry of Defense, the Science Council of Japan set up a committee, Committee on National Security and Science (CNSS), on June 2016. Issues to be discussed by CNSS are (1) how to understand the changes of circumstances since 1950 and 1967 statements, (2) so-called dual-use technology, (3) influences of research concerning national security to openness and transparency of science, (4) influence of the introduction of the funding system concerning national security to scientific research as a whole and (5) who should judge on properness of research in this field - each scientist or scientific institutions such as universities. By the beginning of February 2017, CNSS has drafted an intermediate conclusion based on the discussion of its monthly meetings. The final opinion of CNSS is to be prepared for deliberation by the general meeting of the Science Council of Japan on April 2017. In my lecture I am going to report on the process and the result of discussion, especially on the main controversial issues.

Keywords: ATLA funding system, military research, Science Council of Japan

View from university management: Case of Tohoku University

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Tohoku University is now under discussion on approval/disapproval of research supported by the grant from military organizations. In my talk, I'd like to introduce the contents of discussion at Tohoku University.

Keywords: military research, university

JAMSTEC's study and the Basic Research Fund System of ATLA

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1. Japan Agency for Marine-Earth Science and Technology

Japan Agency for Marine-Earth Science and Technology (JAMSTEC) was initially founded as the authorized corporation, "Japan Marine Science and Technology Center" in 1971 and was transformed into Independent Administrative Institution in FY2004. Since then, it has promoted research and development based on the mid-term plan and is currently in its third term. From FY2015, it has transformed from Independent Administrative Institution into National Research and Development Institute. Consequently, we have been increasingly required to maximize our research achievements as a platform for innovation on marine-earth science and technology.

On March 27, 2014, Acquisition, Technology & Logistics Agency (ATLA, Former name: Technical Research and Development Institute, Ministry of Defense) and JAMSTEC had concluded the "Cooperation Agreement on Oceanic Research" aiming to promote smooth and effective mutual cooperation on oceanic research.

JAMSTEC has been conducting a commissioned research that will be completed in March, 2018 based on the competitive funds "The Basic Research Fund System of ATLA" established by Ministry of Defense in FY2015. The purposes of the funds are to find unique studies conducted at research institutions of universities / independent administrative institutions or private corporations and to advance promising researches.

"The 5th Science and Technology Basic Plan (FY2016 to 2020)" that had been adopted by the Cabinet Office in January, 2016 describes that "Considering the fact that there is ambiguity in science and technology and the research and development results obtained for a certain purpose can be utilized for other purposes, ... it is important to properly utilize the outcomes." and "Utilizing various high technological capabilities of our nation is important to ensure safety and security of the nation and the citizens". Furthermore, in relations to research and development of marine-earth science, it is stated that "A series of science and technology that supports appropriate development, utilization and management of the ocean and the space, ... firmly establishes the foundation of our country's existence. ... it is a very important science and technology from the view point of the national strategy that generates further significant values such as bringing public awareness on science. We are continuously required to enhance it based on a long-term perspective".

"The Defense Technology Strategy" formulated in August, 2016 states that "The important things are to mobilize the capacities of industry, academia and the government to promote technical cooperation between defense sector and consumer sector ... , and divert the defense technology to the consumer sector (Spin-off), and advance technological capabilities of our nation", and also describes regarding the above mentioned The Basic Research Fund System of ATLA that "Under the scheme of the said system, it is expected that the obtained research results will be widely used for consumer sector as well from the viewpoint of maximization of research results. Also, in the fundamental research field covered by the funding system, the research results will be opened to the public as better research results (open innovation) can be expected by open discussions among researchers".

In this speech, the status of the joint research with Acquisition, Technology & Logistics Agency based on the "Cooperation Agreement on Oceanic Research" and the current efforts on the commissioned research based on the "The Basic Research Fund System of ATLA" will be introduced in light of the deliberation status by the "Examination Committee for Security and Academic", the Science Council of Japan and discussions by related sectors. You will also learn future prospects of JAMSTEC.

Keywords: Japan Agency for Marine-Earth Science and Technology, JAMSTEC, Acquisition, Technology & Logistics Agency, The Basic Research Fund System of ATLA

The military security research and Japanese universities:Opinion from the standpoints of education and educational system

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Because this is a JJ session, I will describe only the content of my presentation here.

Please refer my Japanese abstract for the detail.

Contents

1. Introduction
2. Military research and the military security research of the Ministry of Defense
3. The logic of the dual use
4. Influence of the military security research in Japanese universities
5. What happened in Kyushu University during World War II under the governance by the army?
6. The logic of reinforcement of the defense capacity
7. Can the military power really save Japan?
8. What is the national strength?
9. The present situation of the higher education in Japan and the desirable future
10. Personal thoughts

Keywords: the military security reasearch, education and education system, national strength, human resource training

Review on pro and cons issued by individual scientists to the basic research fund system of ATLA, Ministry of Defense

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We shall review on opinions of individual scientists to the basic research fund system of ATLA, Ministry of Defense toward.

Keywords: National Security, Research Fund