

# 10. The Division of Health and Safety Promotion

The Division of Health and Safety Promotion is devoted to preventing work-related accidents, to ensuring safe and sound operation of machinery and equipment, and to maintaining a safe and healthful environment for researchers, technical staff, co-researchers, and students. Each division cooperates with each other to ensure health and safety.

As a nationwide activity, we hold an information exchange meeting on health and safety each year, calling on those involved in the health and safety of university related organizations. This fiscal year's event was held on February 6-7 2020, with about 50 participants from 16 organizations.



Fig. 1 Division of Health and Safety Promotion

## 1. Environmental Safety Control Office

This office has the responsibility to maintain a safe work space and environment. Although the other nine offices of the division of health and safety promotion cover most of the risks that exist in the institute, some problems fall wide of them. The role of this office is to cope with such problems. Therefore, this office has a broad range of tasks.

- (i) Management to solve the problems pointed out by the safety and health committee.
- (ii) Maintenance of the card-key system for the gateways of controlled areas.
- (iii) Maintenance and management of the vehicle gate at the entrance of the experimental zone.
- (iv) Maintenance of the fluorescent signs of the evacuation routes and the caution marks.

## 2. Health Control Office

The main role of this office is to keep the workers in the institute healthy, including co-researchers and students.

- (i) Medical checkups both for general and special purposes and immunization for influenza.
- (ii) Mental health care services and health consultation.
- (iii) Accompany the inspections of the health administrator and the occupational physician.
- (iv) Maintenance of AEDs.
- (v) Alerts and response to the COVID-19.

Various lectures were held for physical and mental health. And an online stress-check was held in October.

## 3. Fire and Disaster Prevention Office

The main role of this office is to prevent or minimize damage caused by various disasters.

- (i) Making self-defense plans for fires and disasters, and implementation of various training.
- (ii) Promotion of first-aid workshops and the AED class.
- (iii) Maintenance of fire-defense facilities and attending on-site inspections by a local fire department.
- (iv) Review and update disaster prevention rules and disaster prevention manuals.

All workers must attend the disaster prevention training held every year.

## 4. Radiation Control Office

The main role of this office is to maintain radiation safety for researchers and the environment. Legal procedures for radiation safety and regular education for the radiation area workers are also important roles of this office

- (i) Maintain radiation safety for the workers.
- (ii) Registration and dose control of radiation area workers.
- (iii) Observation of radiation in the radiation controlled area and the peripheral area.
- (iv) Maintenance of the radiation monitor.
- (v) Applications for radiation equipment to the national agencies and the local governments.
- (vi) Revise official regulations and establish new rules.

One educational lecture was held on February 21, 2020 for the radiation area workers. The other planned lectures were changed to those using DVD viewing. Non-Japanese workers can be educated and trained in English.

#### 5. Electrical Equipment and Work Control Office

The main role of this office is to maintain electrical safety for researchers, technical staff members and students.

- (i) Check and control the electrical facilities according to the technical standards.
- (ii) Safety lecture for researchers and workers.
- (iii) Annual check of the electric equipment during a blackout.

The annual inspection of the academic zone was carried out on May 18, 2019, and that of the experimental zone was carried out on June 6 and June 7, 2019.

#### 6. Machinery and Equipment Control Office

The main role of this office is to maintain the safe operation of cranes. The tasks of this office are as follows.

- (i) Inspection and maintenance of cranes.
- (ii) Management of the crane license holders and safety lectures for the crane users.
- (iii) Schedule management of crane operations.

#### 7. High Pressure Gas Control Office

This office has a very important role in NIFS, because the main experimental machine, LHD, is the superconducting machine which requires cooling by liquid helium. Many other machines have cryogenic pumping systems, which also require cooling down. The tasks of this office are summarized as follows.

- (i) Safety operation and maintenance of high pressure gas handling facilities in NIFS.
- (ii) Daily operation, maintenance, system improvement, and safety education according to the law.
- (iii) Safety lectures for researchers and workers.

#### 8. Hazardous Materials Control Office

The main role of this office is the management of the safe treatment of hazardous materials and maintaining safety for researchers against hazardous events.

- (i) Research the requests for hazardous materials and the storage status.
- (ii) Management to ensure safe storage of the waste.
- (iii) Monitoring of discharging water to prevent water pollution.
- (iv) Implementation of chemical substance risk assessment.

#### 9. New Experimental Safety Assessment Office

The main role of this office is to check the safety of experimental devices other than LHD. For this purpose, researchers who want to setup new experimental apparatus must apply for the safety review. Two reviewers are assigned from members of this office and other specialists. They check the safety of these devices.

- (i) Examine new experiments for safety problems and advise on safety measures. (New experiments in LHD are reviewed by the LHD Experiment Group.)
- (ii) Improve safety in each experiment and reinforce the safety culture at NIFS by annual reviews by NIFS employees.

#### 10. Safety Handbook Publishing Office

The tasks of this office are publication of the Safety Handbook in Japanese and in English and to update them as necessary. The regular safety lectures were held on May 9, May 22, and May 24, 2019. All workers including the co-researchers and students must attend this safety lecture every year.

Detailed information is available on our web-site:

<http://www.nifs.ac.jp/>

(K. Nishimura)