

## 11. The Division for Health and Safety Promotion

The Division for Health and Safety Promotion is devoted to preventing work-related accidents, to ensure safe and sound operation of machinery and equipment, and to maintain a safe and healthful environment for researchers and technical staff. The division is composed of ten offices, as shown in Fig. 1. The division for health and safety promotion conducts the environmental safety, environmental hydraulics monitoring, radiation monitoring, safety education and radiation training. Furthermore, the division for health and safety promotion patrols around the working areas every week during maintenance term.



Fig. 1 Division for Health and Safety Promotion

### 1. Environmental Safety Control Office

This office has a responsibility to keep safe work space and environment. Although the other nine offices of the division for 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) Management to solve the problems pointed out by the safety patrol under the US-Japan Personnel Exchange Program.
- (iii) Maintenance of card-key system for the gateways of controlled area.
- (iv) Preparation of the fluorescent signs of evacuation route and caution marks.
- (v) Consult the planning of fire drill in LHD building.

Following matters were carried out in this fiscal year.

- (1) Made emergency call number seals for a campus mobile phone.
- (2) Reported the previous traffic accidents with a bicycle in NIFS.
- (3) Called a traffic accident with a bicycle to foreign students.
- (4) Considered over-heat trouble arising with a data-acquisition system in the control building.

### 2. Health Control Office

The main role of this office is to keep the workers in the institute to be healthy, which include co-researchers and students. The tasks of this office are summarized as follows.

- (i) Medical checkups both for general and special purposes.
- (ii) Mental health care services.
- (iii) Health consultation.
- (iv) Assisting inspection of the health administer and the occupational physician.

Two lecture meetings on physical health and mental health were held on May 18 and February 1.

### 3. Fire and Disaster Prevention Office

The main role of this office is to prevent or minimize damages caused by various disasters including earthquakes, storms, fires and accidents, as well as of providing restoration work after such damages. The tasks of this office are summarized as follows.

- (i) Making self-defense plans for fires and disasters.
- (ii) Designing and providing simulated drills.
- (iii) Designing and providing LHD fire-fighting drills.
- (iv) Promotion of first-aid workshops.
- (v) Attending at on-site inspections by a local fire department once a year.
- (vi) Maintenance of fire-defense facilities twice a year.

All workers have to attend the disaster prevention training held every year, and they practice at evacuation and fire extinctions. The training in this fiscal year was held on December 26. In addition, following matters were carried out.

- (1) Opened the registration page in NIFS home-page for bicycles and motorcycles.
- (2) Made registration seals for bicycles and motor-cycles.

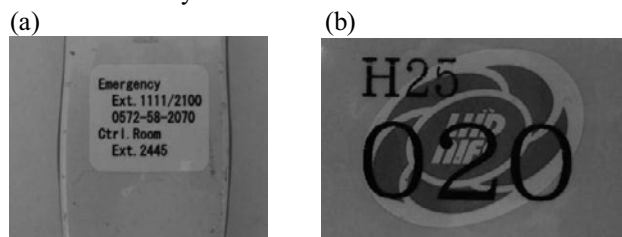


Fig. 2 (a) Emergency call number seal,  
(b) Bicycle registration seal

### 4. Radiation Control Office

The main role of this office is to keep the radiation safety for researchers and environment. Legal procedure for radiation safety and the regular education for the radiation area workers are also important role of this office. Nine radiation monitoring posts are placed at the site boundary and five radiation monitoring posts are placed near the laboratory buildings to monitor the radiation related

to the experiments. The tasks of this office are summarized as follows.

- (i) Radiation Application to Local government.
- (ii) Registration of Radiation area Workers.
- (iii) Guard on Radiation from Devices.
- (iv) Observation of Radiation at the Peripheral area.
- (v) Maintenance of Radiation monitor.
- (vi) Education to Radiation area Workers.
- (vii) Control dose to Radiation area Workers.

New non-Japanese worker can be educated and trained in English.

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

The main role of this office is to keep the electrical safety for researchers. For this purpose, this office gives an electrical safety education every year and patrols with Safety Officer every month. The tasks of this office are summarized as follows.

- (i) Check electric facilities according to the technical standard.
- (ii) Check qualification of electric handler, and security of construction.
- (iii) Give permission of connecting to the Electric Power Line.
- (iv) Discussion with local government offices about procedure.
- (v) Discussion with commercial electric power supplier.
- (vi) Safety lecture to the Researchers and Workers.

Annual inspection in this site was carried out on May 12-13.

#### 6. Machinery and Equipment Control Office

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

- (i) Inspection and Maintenance of cranes.
- (ii) Management of the crane license holders.
- (iii) Schedule management of crane operations.
- (iv) Safety lecture to the crane users.

#### 7. High Pressure Gas Control Office

This office has very important role in NIFS, because the main experimental machine (LHD) is the superconducting machine which needs liquid helium and many machines have cryogenic pumping systems. This office is composed of 25 members (13 researchers, 10 technicians, and 2 officers) who are responsible for safety operation of each facility. The tasks of this office are summarized as follows.

- (i) Safety operation and maintenance of high pressure gas handling facilities (LHD cryogenic system, diborane gas supply facility, etc.) in NIFS.
- (ii) Daily operation, maintenance, system improvement, and safety education according to the High Pressure Gas Safety Law.
- (iii) Safety lecture to 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 keeping safety for researchers against the hazardous events. The tasks of this office are as follows.

- (i) Research the request for Hazardous Materials and the storage status.
- (ii) Management to ensure safe storage the Waste.
- (iii) Monitoring of discharging water to prevent the water pollution.
- (iv) Training and education of the users for safely handling
- (v) Research the information of storage materials.
- (vi) Safety lecture to Researchers and Workers.

In this fiscal year, a new application system on web browser was tested.

#### 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. The safety review is carried out with the applicant. Decisions are made in meetings of this office. If the equipment is judged to be safe, a registration certificate is issued to the applicant and his manager.

This office requests the researchers to check the safety of their existing experimental apparatus. The judgment is made at the office meeting. If the check sheet does not pass the safety review, the applicant is notified and a new application is made. If the renewal is approved, a registration certificate is issued to the applicant. The tasks of this office are summarized as follows.

- (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 the NIFS by annual reviews by themselves.

One new experiment was applied to check its safety in this fiscal year.

#### 10. Safety Handbook Publishing Office

The tasks of this office are publication of the Safety Handbook in Japanese and in English and update them as necessary. And plan and hold a safety lecture twice in a year regularly and some times irregularly. All workers including the co-researchers have to take this safety lecture every year.

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Detailed information of the Division for Health and Safety Promotion is opened in our web-site:

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