



Laboratory Facilities

Feature

Vol.3



1. Strong Earthquake Response Simulator

Disaster Prevention Research Institute

The Strong Earthquake Response Simulator is a shaking table that can reproduce ground motions observed during the Kobe earthquake. The device is used to determine the seismic resistance of structures.

2. Multi-Purpose Super High Magnetic Field Nuclear Magnetic Resonance (NMR) Spectroscopy Instrument

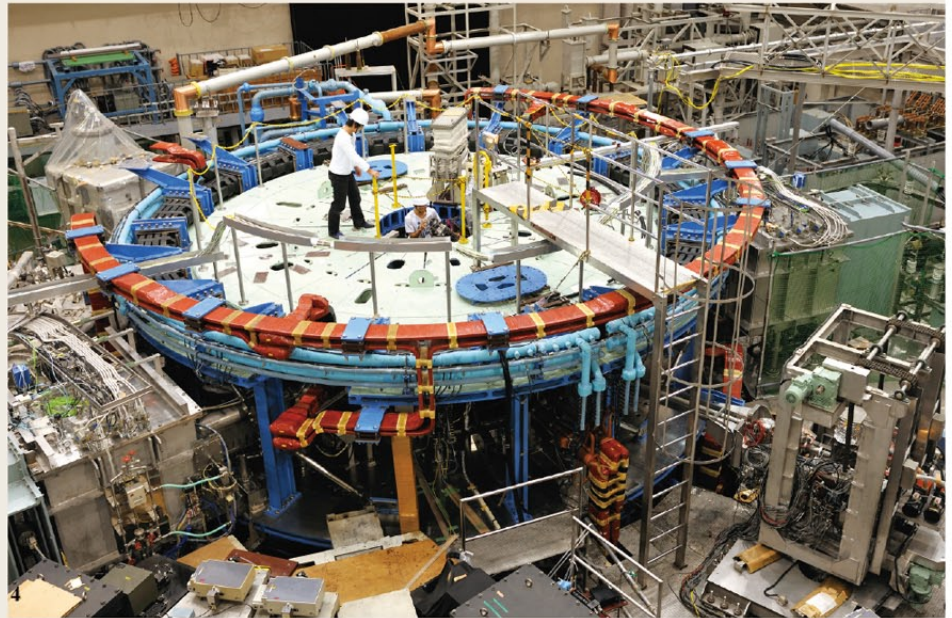
Institute for Chemical Research

This facility enables us to obtain detailed information about the structure and dynamics of molecules in liquid and solid states, which provides a fundamental understanding of material properties on the molecular level.

3. MU Radar Observatory

Research Institute for Sustainable Humanosphere

The middle and upper atmosphere radar (MU radar) is the most powerful atmosphere radar facility in the world. The MU radar's VHF-band atmosphere radar provides fast beam steering and flexibility to conduct various observations in the lower, middle and upper atmospheres.



Heliotron J Device

Institute of Advanced Energy

Heliotron J is an experimental device built for research into high temperature plasma fusion as an alternative energy solution.



5. Flume for Sediment Transport

Disaster Prevention Research Institute

This flume is a straight channel with a sand re-circulating facility. The flume is used for hydraulic experiments such as the investigation of channel bed morphology under various conditions of channel slope, flow discharge and water depth.

6. DASH System

Research Institute for Sustainable Humanosphere

The Development and Assessment of Sustainable Humanosphere (DASH) System consists of a plant growth subsystem, which is a large greenhouse equipped to grow genetically modified plants, and a chemical analysis subsystem. The analysis data gathered can be applied to biochemistry, drug development and environmental chemistry.

7. Scale Model of a Staircase

DPRI Ujigawa Open Laboratory

A scale model of a staircase is used to investigate the characteristics of water flow over stairs and collect data for safety evacuation from underground spaces.