

Okinawa as a Key Asian Gateway in S&T and Global Networks



Shurijo

Situational Overview of Okinawa Prefecture

The Unique Character of Okinawa

- * Geographical Proximity to Asia - Pacific Region
- * Rich Subtropical Oceanic Environment
- * Historical Heritages Open to the World



Utilizing these characteristics, Okinawa prefecture is aiming to be an international hub with the purpose of contributing to the development of the Asia-Pacific Region as well as developing Okinawa's self-sustaining economy.

Promotion of Academic Exchange with the Asia-Pacific Region

Okinawa Promotion Plan (2002)

***To be an international hub of academic exchange**

Framework of a Gateway to Asia (2007)

***To be an international logistic center linking Asia and other regions, and accelerating the flow of human resources, goods, culture and information**

Formation of a Gateway to Asia (2007)

Basic Concepts

- * Accelerating logistic flow**
- * Establishing human resources networks**
- * Becoming an international hub on research and academic exchange**
- * Developing industrial and regional competitiveness**

Promotion of an International Hub on Research and Academic Exchange

1 Okinawa Institute of Science and Technology Project

2 Outline of the Energy Policy of Okinawa Prefecture

Okinawa Institute of Science and Technology Project

1. Objectives

- To conduct world class research in Okinawa
- To establish a graduate university in Okinawa

2. Key Concepts

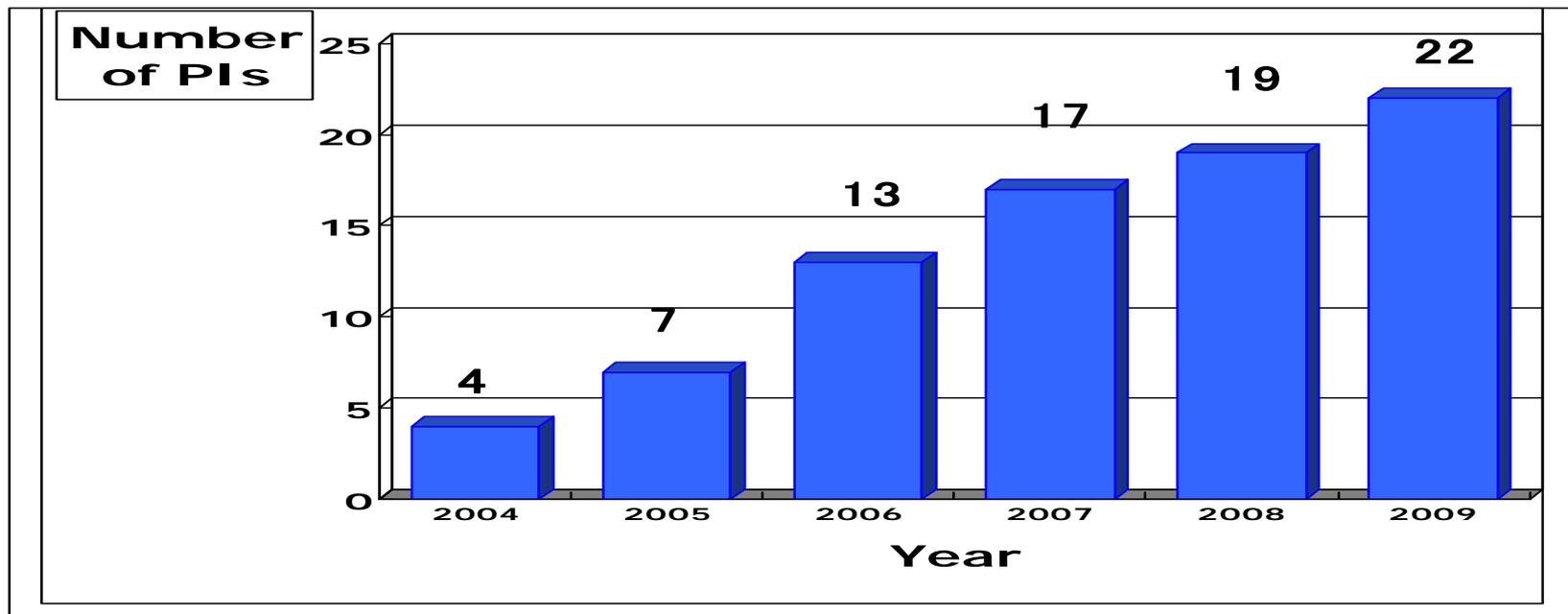
- Best in the world
- Internationalism
- Flexibility
- Global Networking
- Collaboration with Industry

Okinawa Institute of Science and Technology Project

3. Academic and Research Fields

Interdisciplinary studies: neuroscience, molecular biology, mathematical and computational science

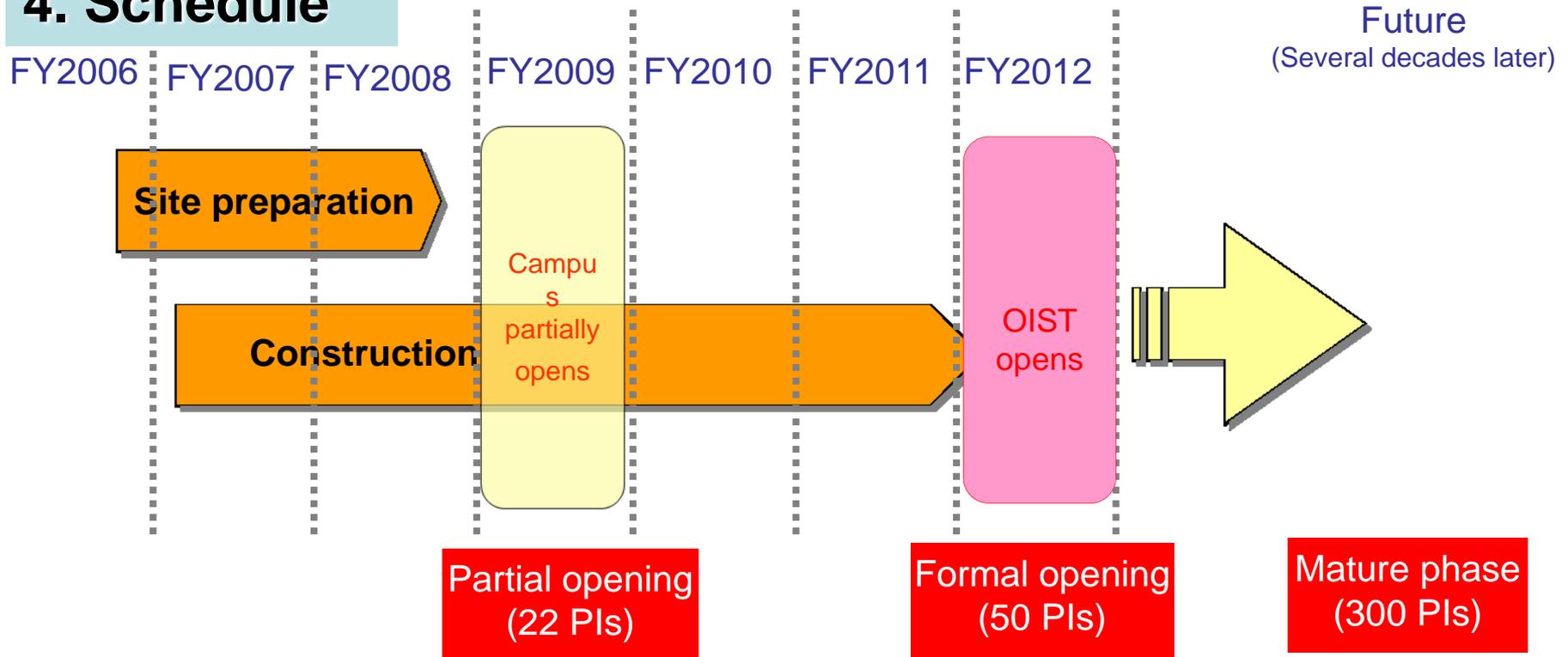
Environmental science has been endorsed by the BOG as the next new field of scientific focus for OIST.



Number of Principal Investigators at present: 22 (Japanese: 10, Non-Japanese: 12)

Okinawa Institute of Science and Technology Project

4. Schedule



Note: PI is the abbreviation for principle investigator.

Okinawa Institute of Science and Technology Project



- OIST will open in 2012 with 50 Research Units (550-600)

Okinawa Institute of Science and Technology Project

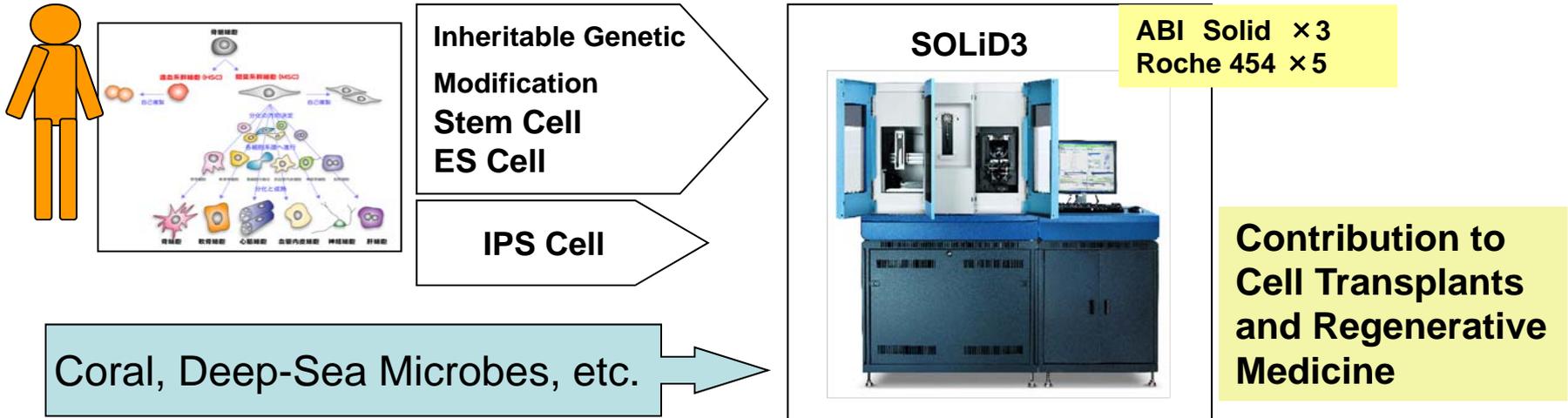


Formation of a Leading Edge Asia-Pacific Intellectual Cluster

Formation of a leading edge Asia-Pacific intellectual cluster *centered at OIST*

Establishment of a genome sequence research center with an integrated sequencer system

Application to the fields of regenerative medicine and marine genomics

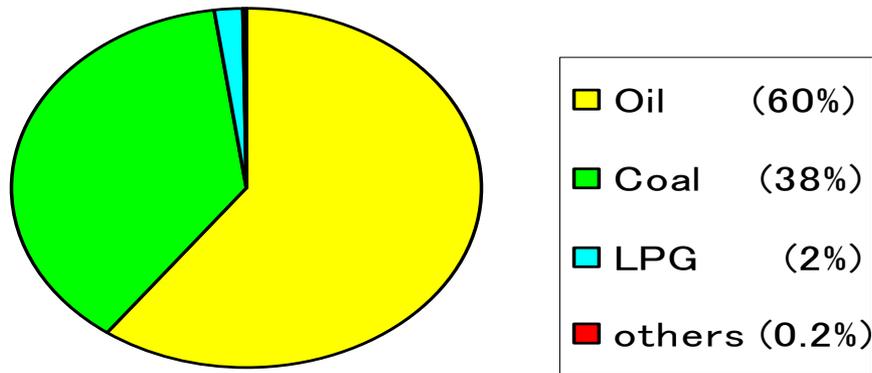


Encouraging New Industrial Growth (Regenerative Medicine)

Encouraging New Industrial Growth (Genomic Drug Discovery)

Outline of the Energy Policy of Okinawa Prefecture

Proportion of Electric Power Generation in Okinawa



Okinawa highly depends on fossil fuels to generate electricity

※ Almost the same as Hawaii

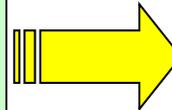
Current Energy Vision (Okinawa New Energy Vision)

Implementation Period: From 2000 to 2011 (Established in 2000)

Goal

Period from 2000 to 2011

Photovoltaic Energy 53,000 kW
Wind Power Energy 80,000 kW



Achievement

Period: from 2000 to August 2008

Photovoltaic Energy 15,841 kW
Wind Power Energy 19,433 kW

Okinawa Energy Vision (New Energy Vision for Okinawa)

New Vision (Okinawa Energy Vision)

“Securing of Stable Energy Supply”, “Low Carbon Society”, and “Eco-Energy Advanced Prefecture” will be the themes of the New Vision.

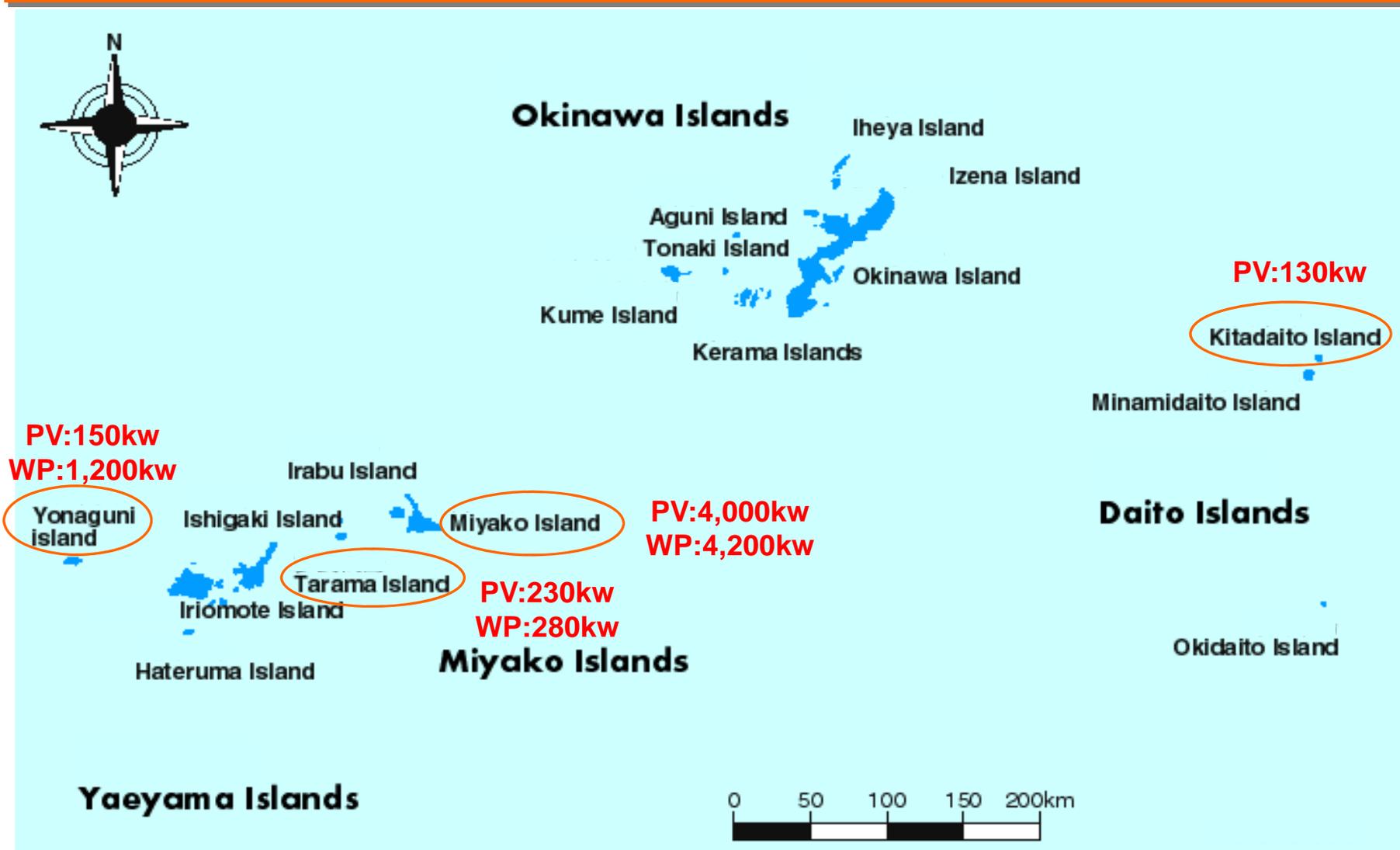
New Energy Collaboration (Planning between Japan and the U.S.)

Experimental Research may incorporate:

PV systems and bioethanol.

Technological development to improve the self-sufficiency ratio of energy on small islands

Smart Grid in Okinawa (Demonstration Tests)



Smart Grid in Okinawa (Demonstration Tests)

Abstract of Smart Grid Demonstration Test

Period From 2009 to 2012

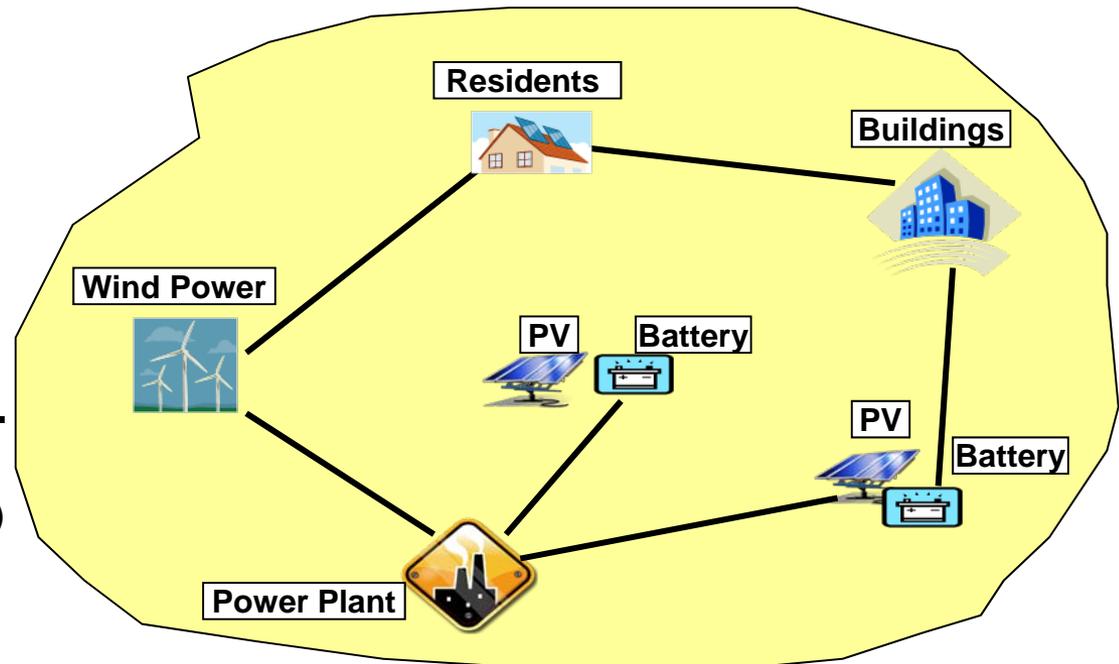
**Budget: 8.4 billion JPY
(92 million USD)**

**Subsidy: 5.6 billion JPY
(62 million USD)**

METI supports 2/3 of the cost

Selected Company:
Okinawa Electric Power, Inc.
Share of Expenses 2.8 billion JPY
(31 million USD)

Image of demonstration test



Future possibility

It may be possible that the results of these demonstration tests and systems could apply to Hawaii in facilitating the Hawaii Clean Energy Initiative (HCEI).

The 28th International Symposium on Space Technology and Science

Date: June, 2011 (8 days)

**Organizer: 28th ISTS Organizing Committee
The Japan Society for Aeronautical and Space Science
Joint Sponsor: Okinawa Prefecture**

26th 2008.6.1-6.8 Hamamatsu, Shizuoka Prefecture

27th 2009.7.5-7.12 Tsukuba, Ibaragi Prefecture

**The 28th ISTS will be held in Okinawa Prefecture in 2011.
We look forward to seeing you then!**