

# 2010 Annual Report of BSMI

**Press of BSMI**  
**March 2011**



Bureau of Standards,  
Metrology and Inspection

# Contents

*2010 Annual Report of BSMI*

	<b>Introduction .....</b>	<b>1</b>
	<b>I. Organization, Budgets, and Manpower .....</b>	<b>2</b>
	1. Organization .....	2
	2. Budgets .....	4
	3. Manpower .....	5
	<b>II. Service Overview .....</b>	<b>6</b>
	1. Standards .....	6
	2. Metrology .....	9
	3. Commodity Inspection and Certification .....	13
	4. Market Surveillance and Product Safety Management .....	16
	5. Management System Certification .....	19
	6. Information Services .....	21
	<b>III. International Cooperation and Interchange .....</b>	<b>23</b>
	1. Multilateral Cooperation .....	23
	2. Bilateral Cooperation .....	26

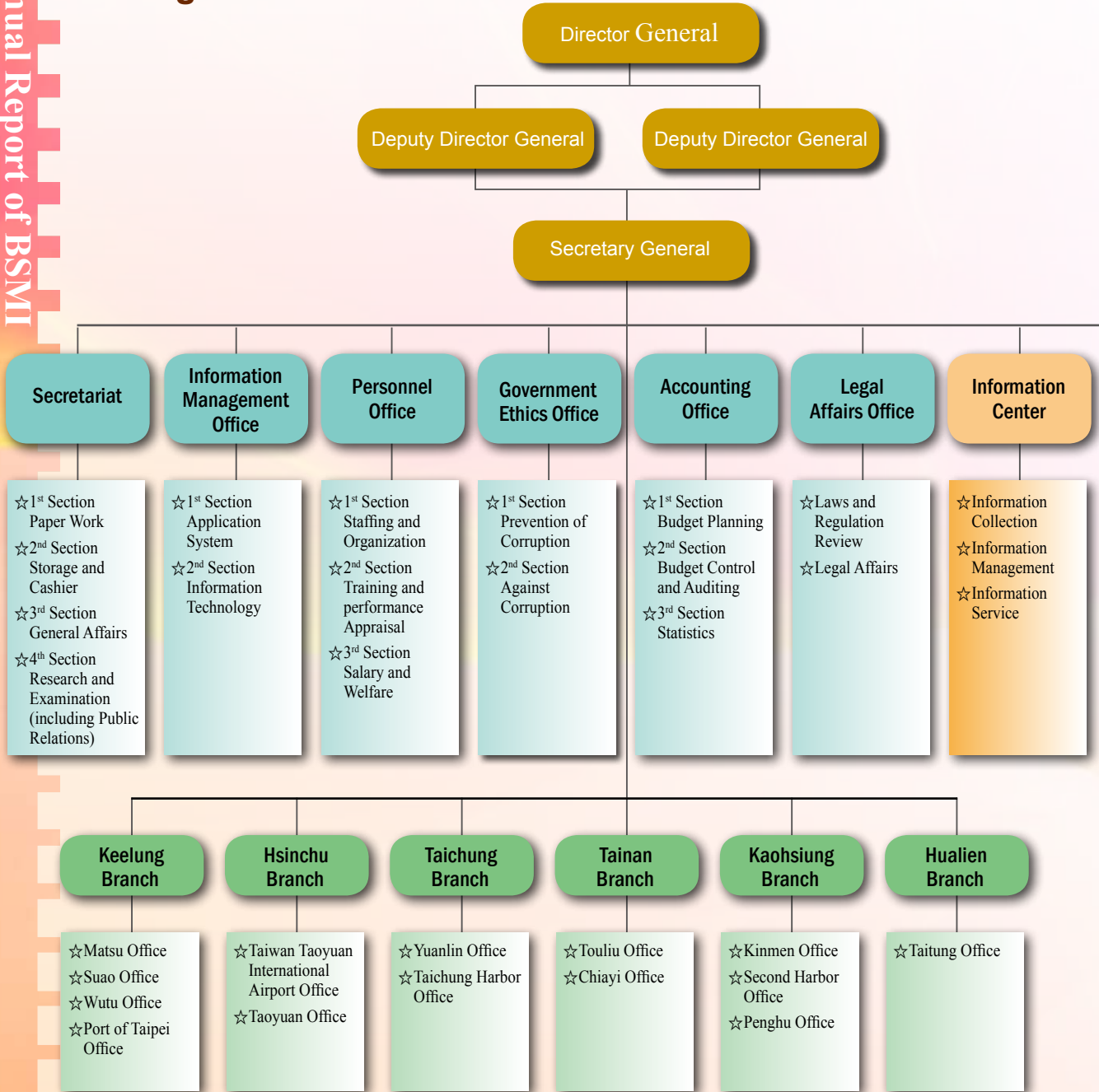
# Introduction

With the advent of midwinter and the passing of 100 years, the Taiwanese people prepare to celebrate the centennial. Looking back on the past year, the BSMI has been committed to sustainable development whilst being focused on industry and public demand; ensuring goods meet safety requirements so that consumers have a safe living environment. To accomplish these, multiple comprehensive measures have been implemented, which have gained popular recognition and affirmation from industry and the Public. In line with policy and industry needs, the BSMI has proactively completed standards, inspections, certifications and consumer product safety and other protocols, helped in industrial upgrading, and strengthening international competitiveness; with respect to consumer safety, the BSMI has spared no effort to meet the needs of the community to build inspection and accreditation specifications to prevent unsafe products being sold. However, these are past achievements and the BSMI clearly knew that there would be a variety of difficult challenges and problems ahead. The BSMI, together with all staff and colleagues, will continue to fulfill its commitments and responsibilities to society. To do this, the BSMI will integrate resources from industry, government and institutions, and implement plans and measures conforming to industry and public demand based on national policies; continue innovating inspection and measurement technologies and improving the knowledge of inspection and verification of the environment to reach international standards. Particularly at the moment of national centennial, the BSMI and all staff will continue to work hard for the nation, the Public, and a great future!



# I. Organization, Budgets, and Manpower

## 1. Organization



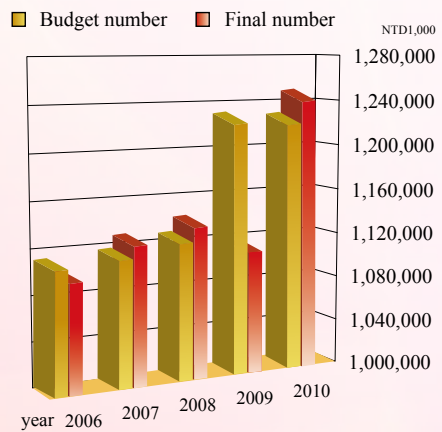


## 2. Budgets

### \* Annual income budget

Units : NTD1,000

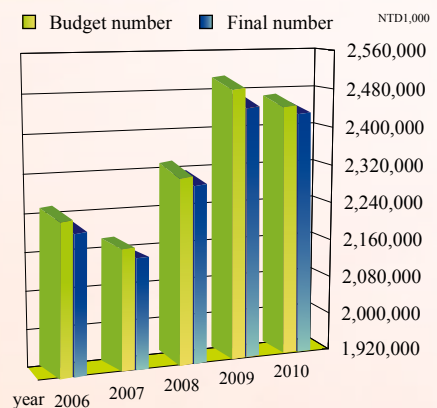
Year	Budget number	Final number
2006	1,110,139	1,095,997
2007	1,116,805	1,125,365
2008	1,126,591	1,139,875
2009	1,225,365	1,088,829
2010	1,224,019	1,246,833



### \* Annual expenditure budget

Units : NTD1,000

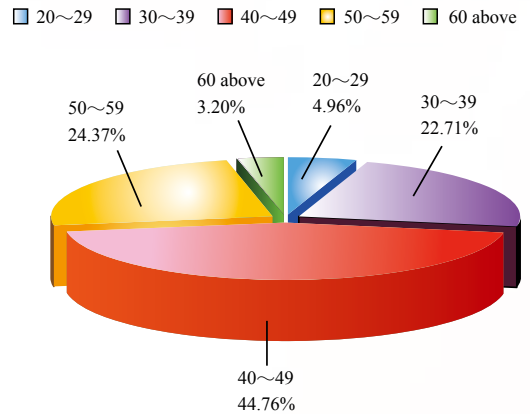
Year	Budget number	Final number
2006	2,244,642	2,225,130
2007	2,182,394	2,166,458
2008	2,343,054	2,321,843
2009	2,505,610	2,472,222
2010	2,461,478	2,447,692



### 3. Manpower

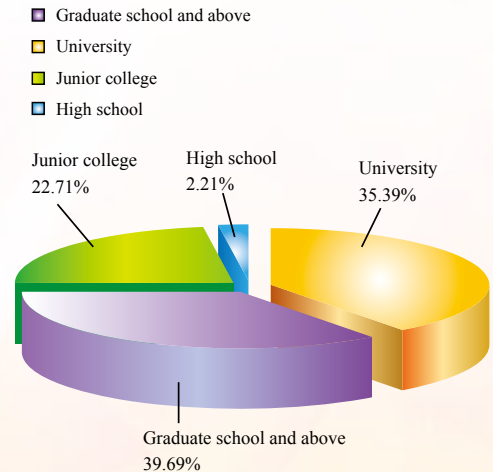
#### \* Personnel age distribution

Age	Persons	%
20~29	45	4.96
30~39	206	22.71
40~49	406	44.76
50~59	221	24.37
60 above	29	3.20
Total	907	100.00



#### \* Personnel education distribution

Educational level	Persons	%
Graduate school and above	360	39.69
University	321	35.39
Junior college	206	22.71
High school	20	2.21
Total	907	100.00



## II. Service Overview

### 1. Standards

#### (1) Activities Report

After the signing of Economic Cooperation Framework Agreement (ECFA), Taiwan and mainland China are expected to experience more prosperous product trade. This requires us to attach high significance to inspection and relevant standards for the national economy and people's livelihood. To ensure product quality and safety, the BSMI has in the past year, put the establishment and observation of appropriate criteria on its agenda, and carried it into its daily work.

The BSMI, as the responsible authority for national standards, has established standards for fundamental technologies in the following areas to improve related industrial production and manufacturing capabilities and technological standards, as well as international competitiveness: mechanical safety, engineering drawings, retroreflective sheeting and tape, electromagnetic steel sheets, industrial sodium hydroxide, aluminum and aluminum alloys, fine ceramics, physical and mechanical testing of leather, etc. To protect personnel and property security, the BSMI set up national criteria for lifestyle products, including sealed portable secondary cells and batteries, child restraint system for vehicles, liquefied petroleum gas, sanitary ceramicwares, textiles, paint, tires, dairy products, instant noodle, plastic tableware, plastic tableware, wine, food furniture, coffee and plastic rubbers, etc. In addition, in response to the needs of the public and of industry towards the development of standardization of environmental protection needs, the BSMI has developed and revised standards for LED streetlighting, safety specifications for LED modules for lighting, solar PV, Secondary batteries for the propulsion of electric road vehicles, and measurement standards for sound insulation in buildings and building elements, etc. to ensure safe living conditions for the public without noise and pollution.

To enhance the international competitiveness of our domestic industry, the BSMI has helped institutions such as National Cheng Kung University and National Chiao Tung University, and other organizations to participate in international standardizations activities of ISO, IEEE, DICOM and 3GPP, etc. covering medical information, fireproof technology, mobile communications and construction materials, and other international standards in order to grasp the latest trends in international standards and collect information on the latest standards.

The CNS Mark has been in effect for nearly 60 years. The BSMI imposes strict requirements for any manufacturers to be able to achieve the CNS Mark, and factories must not only pass CNS12681 (ISO 9001) quality management certification, but their products must also meet national standards. Every year, the BSMI still conducts non-scheduled inspections to ensure that consumers have peace of mind when purchasing products due to the guarantee seal of authentication. In order to create a superior consumer environment, once again this year the BSMI cooperated with distributors to hold a ‘CNS Mark Products Exhibition’. During the exhibition, representatives of consumers, manufacturers, and distributors were invited to attend an alliance ceremony and to sign a statement, “Using CNS Mark products would promise a superior living environment.”, to promote and establish an excellent consumer environment.



## (2) Achievements

- A. In conjunction with policies and industrial development trends, the BSMI revised 415 national standards, and withdrew 157 inapplicable standards. Currently, there are 14,473 national standards in existence.
- B. National standards development strategy and harmonization plan
  - ◆ Completion of “Evaluation and Analysis Methods Research for Standardization Benefits” report, and held a seminar for “Evaluation of Standard Benefits”, both of which were expected to be preferential referred in following establishment timetable and standards revisions.
  - ◆ Completion of 27 drafts of national standards relating to Chinese information, free software platform, and photo-catalysis media to guarantee consistency between national and international standards.
- C. Networked communications international standards analysis and participation in development of standards
  - ◆ Planning of participation in the development of international technical standards of fourth-generation mobile communications, telematics, and others.
  - ◆ Arranged participation by 200 personnel in 3GPP LTE/LTE-Advanced, WiMAX Forum, IEEE 802.16 and IEEE 1609 information and communications industry standards organizations conferences.

- ◆ Presentation of forward-looking technological R&D results at international industry standards organization conferences; 333 contributions were proposed, of which 153 contributions were accepted, providing the opportunity to secure essential IPR.
- ◆ Training of 55 international standards drafting personnel possessing negotiation and technical skills, which will help give Taiwan's information and communications industry a greater international competitive advantage.

#### D. Strengthening promotion of the CNS Mark

- ◆ Announcing the addition of 11 new CNS Mark product items, including Polyethylene insulated polyvinyl chloride sheathed (PE-PVC) drop wires.
- ◆ In order to create a superior consumer environment, the BSMI once again worked with the distributor to hold the "CNS Mark Product Exhibitions". The consumer representatives, the manufacturer representatives, and the distributor representatives were invited to attend an alliance ceremony and to sign a statement, "Using CNS Mark products would promise a superior living environment".
- ◆ With regard to the acceptance and review of the CNS Mark usage applications, the BSMI granted 60 factories to use 95 CNS Mark certificates. The BSMI also accepted changes to basic CNS Mark information on 1,082 certificates at 374 factories.

#### E. Awareness activities

- ◆ Promoted importance of standardization, strengthened public awareness of standardization and displayed government achievements. The BSMI responded to the October 14 "World Standards Day" by holding the "11<sup>th</sup> National Standardization Awards Ceremony", "World Standards Day Expert Forum", "Internet Communications International Standards and Products Innovation Seminar", "LED Monitor Industrial Standards Summit Forum", "Industrial Technology Standards and Promotion Seminar", "Nano Particles Inspection Standards and Technologies Forum", "Release of Intelligent Vehicle Parts and Components Inspection Standards and Certification and Technology Seminar", "Health Care Industry Standards", "Inspection Technologies and Training of Certification Personnel Seminar", as well as the "Fuel Cells Inspection and Certification Standards Seminar".



## 2. Metrology

### (1) Activities Report

With social and economic developing and uplifting, the public's understanding to metrology has been changing vitally. In recent era, international metrology systems have been formatting gradually. Its effectness to science, technical, trade, and social could be forseen in the coming future and will be widely used in variety field, such as food, clothing, Housing, and transportation. In order to maintain an effective measurement system and maintain the credibility of metrology standards, the BSMI continue to establish and maintain national metrology standards, and ensure that the traceability systems are on a sound footing. The BSMI had established 3 new standards, Low Shock Primary Calibration Systems, Measurement System for Wafer Nanoparticle Diameter, and Calibration of Standard Free-Air Cavity of Energy-Spot of Gamma Radiation/Air-Kerma Rate.

The BSMI has been registered 378 Calibration and Measurement Capabilities (CMCs) in 88 systems in the Bureau International des Poids et Mesures (BIPM) key comparison database (KCDB). The BSMI also continue to implement the OECD's Good Laboratory Practices Mutual Acceptance of Data (OECD GLP MAD), initiate a OECD GLP conformity monitoring plan in domestic, and participate in OECD GLP working group conferences and making significant progress. The goal of this effort is to help Taiwanese companies to expand their overseas market share, and to ensure that calibration reports issued in Taiwan are accepted internationally. In addition, the BSMI signed a Confirmation Letter for Mutual Acceptance of Global Laboratory Practices with the US Environmental Protection Agency, invited the GLP authority to hold seminars and training courses in Taiwan.

The BSMI's 2010 World Metrology Day (May 20<sup>th</sup>) activities strengthened its interaction with metrology businesses and associations, and gave citizens a clearer view of the close relationship between metrology, industry, and life and the result was satisfied. Meanwhile, the BSMI held an exhibition of the outputs of metrology projects. The exhibition included the outputs of 19 important metrology projects on fields such as flat panel displays (FPD), soft electronics, nanotechnology, ionizing radiation, time & frequency, and certification. Regarding to legislation, the BSMI announced the revision of several pieces of legislation, including Regulation Governing Identification of Disputable Measuring Instrumnets, Regulations Governing Verification and Inspection of Measurement Instruments, Regulations Governing Management of Metrological Personnel, and Fee-charging Standards for Measuring Instrumnets.

In order to protect consumers' rights and interests, a BSMI also implemented audits and inperiodic inspections. Such effort resulted in providing consumers with a "worry-free" trade environment.

## (2) Achievements

A. Establishment of measurement standards, development of measurement technology, and active participation in international metrology organizations.

- ◆ The BSMI maintained 135 measurement standard systems in 17 fields via the National Measurement Laboratory, and provided the traceability to national measurement standards services for 4,622 cases. These efforts in turn generated 4,732,928 cases of secondary calibration services, supporting the domestic inspection and testing market worth over NT\$10 billion.
- ◆ The BSMI has completed 3 new standards, Low Shock Primary Calibration Systems, Measurement System for Wafer Nanoparticle Diameter, and expanded Am-241 Air-Kerma Rate Measurement Standard System. Those standards provide shock calibration service that is necessary to information products, vehicle products and precision equipments; and, provide testing, calibration and capability test service for measurement traceability of semi-conductor wafer, radiation dose detector and personal dose meter, etc.
- ◆ The BSMI continued to participate in key comparison and register results in the BIPM database, ensure the calibration reports issued in Taiwan are accepted internationally and facilitate the adoption of international norms. The following results had been registered as of 2010:

		Total	National Measurement Laboratory	National Radiation Standard Laboratory	National Time and Frequency Standard Laboratory
Registered in BIPM KCDB	Key and supplementary database standards activities participated in this year (Appendix B)	16 items	9 items	4 items	3 items
	Items registered in CMC BIPM KCDB (Appendix C)	378 CMCs in 88 systems	281 CMCs in 72 systems	89 CMCs in 11 systems	8 CMCs in 5 systems

### B. Dissemination of measuring technologies

- ◆ The BSMI hosted the Taiwan Nanotechnology Standard Council (TNSC) and invited the Taiwan Nanotechnology Industry Development Association to address “Management of Nanotechnology Development Risks”. Members were encouraged to discuss the methodology used in the development of preliminary and current specifications.



- ◆ The BSMI organized the 2010 World Accreditation Day and held a series of meetings, including Forum for International Acceptance of Accreditation, Seminar of MRA/MLA Accreditation Benefits, and Seminar of Information Service Management (IEO/IEC 2000) to ensure national accreditation services are in line with international standards.

- ◆ The BSMI held the 2010 Seminar on International FPD Standards and Technologies. This event provided domestic flat panel display companies with the newest standards technology and information on future development trends, and helped government agencies to assist the domestic FPD display industry to draft domestic and foreign standards.



### C. Inspected compulsory measuring practices to ensure fair transactions

- ◆ In order to provide legal measuring instrument testing and weight calibration services, and thereby facilitate commercial, verification, public testing, environmental protection, and healthcare undertakings, the BSMI performed legal measuring instruction verification totaling 3,225,554 times in 2010.
- ◆ The BSMI revised 4 pieces of legislation including Regulation Governing Identification of Disputable Measuring Instruments, Regulations Governing Verification and Inspection of Measurement Instruments, Regulations Governing Management of Metrological Personnel, and Fee-charging Standards for Measuring Instruments.
- ◆ The BSMI continued the promotion of the use of environmentally-friendly materials in approval certificates and testing work. In 2010, the fuel gage and tax charge meter had already started to use environmentally-friendly seals.

D. Continuing the inspection of measurement instrument accuracy in the market in order to ensure fair transactions

- ◆ The BSMI cooperated with the Consumers' Foundation to conduct joint audits before major holidays for measurement instruments in traditional markets, supermarkets, and tourist travel areas.
- ◆ On the basis of policies stipulated by the Consumer Protection Commission, Executive Yuan, the BSMI cooperated with the business management departments of city and county government to conduct joint audits, a total of 5,158 LPG measurement instruments were inspected.
- ◆ The BSMI promoted self-management of trade scales in markets, by which 27 public and private markets were qualified and registered as "Excellent Scale Self-management Markets", and were presented with certification seals.

E. Important Activities, Promotion and Education

- ◆ The BSMI proactively held 8 seminars in the northern, middle and southern parts of Taiwan in order to promote the establishment of an examination institution for measurement technicians. These seminars help the public and industry understand the institution and encourage them to take the examination. In total, about 700 practitioners are in exam preparation.
- ◆ The BSMI expanded its service website for measurement education and developed a computer-based examination platform for measurement technicians as a strict, transparent, and open online examination system.

### 3. Commodity Inspection and Certification

#### (1) Activities Report

Taiwan and mainland China currently enjoy prosperous product trade exports, and will continue to do so in the future. However, many unlicensed products entered Taiwan, and also enjoy prosperity, threatening the national economy, and personal health and safety. Most of these unlicensed products were found defective and labeled in confusion. The only way to tackle this problem is to strengthen customs inspections, which required the BSMI to expand the compulsory inspection scope. During 2010, the BSMI added numerous new items subject to inspection, including chemical industry products, electrical appliance and electrical machinery products. The inspection list contained a total of 657 product items as at the end of 2010.

Entrusted by the Department of Health, Council of Agriculture and Finance Department, Executive Yuan, and in consistent with the basic principles of integrated governance and administrative assistance, the BSMI conducted border inspections for imported food, animal feed and alcohol products, to ensure the public's health and safety. In addition, in 2010, the BSMI undertook the planning of voluntary product certification for organic textiles and deep-sea water products to further enhance the quality of the two categories of consumer products. The BSMI will make resources available to the public to participate in product inspection and testing services, with product certifications being opened up to private sector participation in third party certifications. As announced this year, the BSMI is opening up an additional series "(appliance) power supply", listing 2 areas including 3 items for entrusted certification services. In addition, the BSMI established inspection and testing information inquiry system to provide a wide range of inspection information services, by which the public may query manufacturer information via product labels and thereby preventing fake labeling.

In order to help domestic industries expand into international markets, the BSMI developed a management framework for official controls of fish and fishery products intended for export to the EU. The BSMI has submitted 33 fishery processing plants and 85 frozen vessels to be registered under Taiwan's listing on the EU's third country list for fishery products. For Vietnam market, 34 fishery processing plants was registered in the approved third country imports list by the Vietnam Ministry of Agricultural and Rural Development, Forestry and Aquatic Products. For Brazilian market, 29 fishery processing plants obtained approval for import by the Brazil Ministry of Agriculture.

Furthermore, in order to stay up to date with industrial development needs, the BSMI held more than 10 seminars about inspection practitioners and several training seminars to highlight the BSMI and its staff's professional skills, which were required to lead sustainable development and protect consumer rights and benefits.

## (2) Achievements


### A. Strengthening product inspections

- ◆ The BSMI added more than 10 mandatory inspection items, including oxygen canisters for mountaineering, composite timber, compact fluorescent lamps, and infant clothing and accessories.
- ◆ Entrusted by the Department of Health, Council of Agriculture and the Department of Finance, Executive Yuan, the BSMI conducted border inspections for imported food, animal feed and alcohol products to ensure food safety. By the end of 2010, the BSMI had conducted 409,887 inspections for imported food products, 6,507 inspections for imported feed and 645 sampling inspections for imported alcohol products.

### B. Expanded Access to product inspections for domestic companies

- ◆ The BSMI opened access for third-party product inspections by private institutions. The BSMI further added some new products on February 8 that can be entrusted with private inspection institutions for certification and verification, including monitors for automatic information processing system, power supply units, and power adapters.

### C. The BSMI continued to implement a voluntary product certification system

(VPC mark: )

- ◆ The BSMI announced the “Regulations Governing Implementation of Voluntary Product Certification for Deep-Sea Water Products” on December 14. The VPC system, designed based on a sound technological infrastructure, incorporated the concept of “from farm to table” and intends to encourage production of deep-sea water products with high quality.
- ◆ The BSMI has planned to promote “Voluntary Product Certification Regulations for Organic Textiles” and has developed accreditation documents, and held a presentation of “Voluntary Organic Textile Certification” on November 15-17 to provide reference for future planning.

### D. Improving inspection technologies and establishing a certification environment conforming to international norms

- ◆ In order to improve the Laboratory capabilities of quality inspection and technologies, the BSMI worked actively to apply for accreditation from the Taiwan Accreditation Foundation (TAF) and acquired approval as a Proficiency Testing Provider.
- ◆ On March 26, the BSMI held a ceremony to celebrate the application of its central laboratory of Test Panels for Medium and Small Wind Turbine Systems. The BSMI jointly signed the Memorandum of Understanding with the



Metal Industries Research & Development Center in Chigu Salt Mountain. The central laboratory was designed to be the first wind testing facility conforming to international standards for TÜV NORD, with capabilities of accreditation services for wind turbines, both at home and abroad. These efforts were expected to help domestic industries to be approved by international accreditation institutions, save accreditation costs and time, and accelerate relevant market expansion.



- ◆ The BSMI set up a Preliminary Study Scientific Development Foundation for Test and Certification working groups of Electric Vehicles; completed investigations of international laws and regulations/standards of electric vehicles, and developed plans for relevant accreditation and resources; as well as helping domestic electric vehicles in upgrading technologies of critical components and expand into international markets.
  - ◆ The BSMI examined 13 standards in draft form relating to Standards Test and Certification Working groups for the Health Care Industry, including medical apparatus and instruments for care, home appliances and electric tools, health products, and radiation medical equipment.
  - ◆ The BSMI established “Inspection Standards for Parts and Components of Intelligent Vehicles” under “Superior Living Industry Inspection Standards and Accreditation Technology Development”; set up “Vehicular IC-EMC Inspection Standards and Accreditation Resources”, “Vehicular Electric System Standards and Accreditation Resources” and held a design competition for EMC/SI/PI design for wafer system package.
- E. Helping industry to expand into international markets
- ◆ The BSMI maintained Taiwan on the Third Country List for Aquaculture Products in the Annex to EC Decision 2004/432/EC.
  - ◆ The BSMI received approval from the Vietnam Ministry of Agriculture and Rural Development, Forestry and Fisheries Quality Assurance Agency to be included in the third-country list of approved imports (document no. 1670/QLCL-CL1).
  - ◆ The BSMI had been expressing concerns about the ban on imports of Taiwanese fishery products to Russia since 2009, after Russia imposed new inspection regulations. The Russian FSVPS agreed to send experts to Taiwan to conduct on-site investigations and the BSMI submitted related information at the request of the Russian experts to assist export of our fishery products to Russia.
  - ◆ The BSMI submitted 29 fishery processing plants listed in the EU’s third country listing to apply for approval and registration to the DIPOA, Brazil. All of the processing plants were finally accepted as approved import lists and published on the website of the Brazil Ministry of Agriculture.

## 4. Market Surveillance and Product Safety Management

### (1) Activities Report

The BSMI has noticed increasing incidents of noncompliant products, which pose severe threats to the health, safety and properties of the public. With a view to providing a quick reporting channel for industries and consumers, the BSMI established a Product Safety Information Network in 2008 to announce information on product safety and recalled products. Now, the website has become an important resource for the public to find out safety information on products. In addition, for products that are involved in accidents, the BSMI requires companies to take appropriate actions, works with them to disclose related information, and follows up subsequent development to prevent reoccurrence of accidents.

On May 5, 2010, the BSMI formed an Interagency Audit Team to monitor the safety of imported products that shows abnormal conditions. The Team has subsections located in Taipei, Keelung, Hsinchu, Taichung, Tainan, Kaohsiung and Hualien. In 2010, the Team conducted 240 joint audits, identified 79,407 product items with false labels or noncompliant features. In the future, the Team will continue to collect information and strengthen audits



to prevent noncompliant products from placing on the market. All these efforts will protect the development of domestic industries and the legitimate rights of consumers.

In addition, the BSMI adopted other measures to further monitor the safety of products crossing borders and placed on the market. These measures include adoption of the “Directions Governing Border Checks on Commodities Under the Registration of Product Certification (RPC) Scheme” and organization of awareness seminars. The former focuses on RPC registered products, of which the number of noncompliant cases increases. The awareness seminars were targeted to government procurement personnel from governmental agencies and distributors or retailers, emphasizing the importance of the Commodity Inspection Mark and the obligation of selling safe products. 7 awareness seminars were held in 2010. The BSMI, together with the Consumer Protection Commission, Executive Yuan, organized a series of activities relating to “Protection of the Earth by Green Consumption and Sustainable Energy-saving” in 2010 to urge the public to take actions in everyday lives.

With a view to ensuring that products bearing the Commodity Inspection Mark continue to comply with related safety requirements after they are placed on the market, the BSMI adopted annual market surveillance plans, based on which a series of market surveillance activities are conducted. For any products with a Commodity Inspection Mark that are found to be noncompliant, the BSMI will immediately send personnel to identify and investigate the causes, and make investigation records. Last but not the least, the BSMI has focused on rooting the basic concepts of product safety in the lives of the public, creating a win-win situation for both the seller and the public.

## (2) Achievements

### A. Market Sampling and Surveillance Projects

- ◆ A total of 69 testing campaigns were conducted in 2010 on products with high risks and of concerns to the public. The test results were publicly announced at press conferences.
- ◆ The BSMI carried out 60 market surveillance projects and sampling tests for products with high risks and high frequency of violation of requirements. Noncompliant products were traced and investigated, followed by administrative actions, including imposition of fines, recall of products and corrective actions, prohibition of display and sale, revocation of certificates, depending on the situations of violation. The BSMI also monitored the flow of such products to protect consumer rights.
- ◆ The BSMI conducted border checks of RPC registered products to prevent unsafe products from entering the domestic market. In 2010, the BSMI conducted 555 cases.

### B. Expansion of the BSMI's Product Safety Information Website (<http://safety.bsmi.gov.tw>)

- ◆ After it is confirmed that there exists causal relationship between product incidents and safety of the products or the products are of safety concerns after investigations, the BSMI will promptly request and assist the company to disclose relevant information, and then require the company to take corrective actions, remove the product from shelves, or recall products from market. The BSMI also publicly announces information on products violating inspection regulations and their manufacturers. In 2010, fines were imposed on 213 cases.
- ◆ The BSMI actively collected 1,426 information items from the US Consumer Products Safety Commission (CPSC), the Rapid Alert System for Non-food Consumer Products (RAPEX), and reports from representative offices abroad, and publicly announced them on the BSMI's Product Safety Information Network.

### C. Implementation of a compulsory product incident report system

- ◆ In order to maintain information concerning unsafe products and take appropriate actions

in time, the BSMI revised Article 49, Paragraph 4 of the Commodity Inspection Act, and adopted “Regulations for Reporting Incidents Caused by Products Subject to Inspection”, which requires persons with reporting duties to notify the BSMI within 3 work days from the date of being informed of the incidents.

- ◆ During 2010, the BSMI received a total of 236 product incident reports, of which 200 were filed and investigated (the other 36 being repeated reports, forwarded to the responsible agencies for processing or incidents not involved). The BSMI sent staff to investigate all 200 cases to identify the causes of the incidents. For unsafe products, the BSMI required companies to take measures to disclose information and follow up on the progress according to the “Commodity Inspection Act and Consumer Protection Law” in order to protect consumer legal rights and benefits.



## 5. Management System Certification

### (1) Activities Report

The BSMI has implemented ISO 9001 quality management system certification since 1991, and has expended its services to management systems certification on ISO 14001 (environment), OHSAS 18001 (occupational health and safety), TOSHMS, ISO 22000 (food safety) and ISO 27001 (information security). Today the BSMI provides a complete set of integrated certification services to domestic companies.

Modern society enjoys tremendous benefits from information technology, in particular, the most convenient of all, the Internet. However, we are also at significant risk of disclosure of important information. The BSMI has cooperated with the National Information and Communication Security Taskforce (NICST) to effectively protect information security and strengthen security capabilities. To this end, both have worked hard to help government institutions and public business organizations to set up the Information Security Management System (ISMS). Also, in responding to the official publication of ISO/IEC 27003:2010-02-01, the BSMI held a seminar on “Promotion of Information Security – Practices of Information Security Management System” to enhance public awareness of information security. The seminar was also the seventh of the “Information Security Management System Standardization” series of seminars, which was jointly organized by the SGS Group (SGS) and the Chinese Cryptology and Information Security Association (CCISA) Education and Promotion Committee.

To enhance global acceptance of BSMI management systems certificates by domestic and overseas companies, the BSMI sought accreditation from the Taiwan Accreditation Foundation (TAF), which is a signatory to the Multilateral Recognition Arrangement of the and International Accreditation Forum (IAF), on more certification areas. We hope that the goal of “one certificate, global acceptance” can be achieved under participation in the international accreditation arrangements.

### (2) Achievements

#### A. ISO 9001 quality management system certification

- ◆ The TAF has extended accreditation scope of the BSMI to offer certification in 22 areas.

#### B. ISO 14001 environmental management system certification

- ◆ The BSMI was accredited by the TAF to provide certification in 20 areas.

#### C. ISO 27001 information security management system certification

- ◆ The BSMI held a seminar on “Promotion of Information Security– Practices in Information Security Management System” on July 16 to enhance public awareness about reducing information risks and the importance of strengthening protection capabilities. The seminar was the seventh of the “Information Security Management System Standardization” series

of seminars and was jointly organized by SGS and CCISA Education and Promotion Committee.

- ◆ The BSMI was granted 34 accreditation certificates by the Taiwan Accreditation Foundation (TAF).

D. OHSAS 18001 occupational health and safety management system certification

- ◆ The BSMI was accredited by the TAF to provide certification in 7 areas, including a new certification area “basic metal and fabricated metal products (hot and cold forming, and metal products).”

E. ISO 22000 food safety management system certification

- ◆ The BSMI was accredited by the TAF to provide certification in 9 areas.

F. Taiwan occupational health and safety management system (TOSHMS) certification

- ◆ The BSMI passed the audit by the Council of Labor Affairs, Executive Yuan, to provide certification on TOSHMS.

G. ISO 14064-1 greenhouse gas (GHG) verification/certification

- ◆ To support the government’s policy on sustainable development and reduction of carbon emissions in response to global warming and climate changes, the BSMI passed the review of the Environmental Protection Administration of Executive Yuan on August 26 and was approved to be a GHG verification organization to perform verification on non-renewable energy sources, energy transmission, petroleum, and manufacturing of chemical materials.
- ◆ The BSMI was accredited by the TAF on November 22 to extend its verification scope to cover the new area of “aquatic transportation.” The BSMI is currently accredited to provide ISO 14064-1 certification in 5 areas.



▲ BSMI awarded KRTC ISO 9001 Certificate.



▲ BSMI awarded BOE ISO 14064-1 Certificate.

H. Certification on Hazard Analysis Critical Control Point (HACCP) for Export Food Processing Plants

- ◆ The BSMI published a list of HACCP-certified fishery product processing plants on November 25. Processing plants of fishery products which are granted HACCP certificates would enhance their competitiveness in international markets by demonstrating to their clients the quality, health and safety of their fishery products.

## 6. Information Services

### (1) Activities Report

The National Standards Information Search System and Catalogue Index Server for Foreign Standards, established by the BSMI to strengthen the development of a faster and more convenient information service technology, have had more users this year than the previous year. The BSMI also collected standard organizations for authorization agreement and maintenance of effective and smooth cooperation. With the internet developed, the BSMI provided online download service for the public and professional consultation more personally. In addition, the BSMI continued its English translations of national standards and has published its e-paper to expand its information service capabilities.

### (2) Achievements

#### A. Status of collections

The Information Center, affiliated to the BSMI, collects standards information including National Standards (CNS), major international standards, national standards from leading industrialized countries, standards drafted by major international associations, standards catalogs, and metrology information.

Type	Format	Quantity	Remarks
CNS	Paper \ Internet	14,473	2,780 in English version
Foreign standards	Paper	174,815	
	CD/DVD version	14	
	Bound volume	15	
	Virtual collection (Internet downloads)	8	
Standard catalogs	Paper	89	
	CD/DVD version	14	
Metrology information	Paper	310	

#### B. Standards Information in Translation and Publication

- ◆ In order to promote international trade, the BSMI takes into account practical performances in industry, inspection of commodities and also solicits opinions from industry, experts and scholars in drafting national standards to meet requirements of information exchange

between various standards bodies. This year, the BSMI added 41 new standards, obsoleted 13, and updated another 20. As 2010, there were a total of 2,780 CNS in English version available. Chemical industry, electronics, machinery, and food are the majority of those translated into English versions.

C. Information Search System

- ◆ CNS Online Service (<http://www.cnsonline.com.tw/>)

The BSMI has established the CNS Online Service providing 24-hour service. The public can perform online queries at any time, and preview and download information relating to CNS national standards. As of the end of 2010, 96% of information applications have been made via the Internet. In 2010, there were 413,979 users utilizing the system.

- ◆ Catalogue Index Server for Foreign Standards ( <http://fsms.bsmi.gov.tw/cat/>)

This system enables the public to make real-time online queries of foreign standards collected at the BSMI's information center. As of the end of 2010, the system has collected 200,000 standards information from more than 100 standards organizations. In 2010, there are 373,618 users utilizing the system.

D. Licensed Photocopy Service

- ◆ The BSMI signed licensed-photocopy agreements with various standards organizations to provide industry, business and academic institutions with required standards quickly and legally. For organizations that have signed agreements with the BSMI, royalty ratios are as follows:

Acronym	Full Name	Royalties
AS	Standards Association of Australia	40%
ASTM	American Society for Testing and Materials	60%
BS	British Standards Institution	40%
CSA	Canada Standards Association	80%
DIN	Deutsches Institut für Normung e.V.	66.66%
IEEE	Institute of Electrical and Electronics Engineers, Incorporated	75%
ISO	International Organization for Standardization	90%
UL	Underwriter Laboratories Inc.	75%

## **III. International Cooperation and Interchange**

Apart from drafting international standards in line with international norms, establishing a national measurement standards system aligned with international systems, and promoting the effective functioning of conformity assessment infrastructure, the BSMI also actively promotes international cooperation and mutual recognition, and establishes collaborative relationships with prominent foreign certification organizations. The BSMI hopes that it can use international cooperation to help companies obtain marks of foreign certification bodies, and also looks forward to boosting its testing capabilities through technology sharing with foreign organizations. Multilateral and bilateral cooperation and harmonization of standards systems with foreign partners will ultimately result in greater social prosperity and national progress.

The BSMI's 2010 multilateral and bilateral interchange undertakings are summarized as follows:

### **1. Multilateral Cooperation**

#### **(1) UN/CEFACT and AFACT**

- A. The BSMI attended the 28<sup>th</sup> Mid Term StC Meeting and TFT Confernece in Tokyo, Japan from June 28 to 30 and, as the vice chairman of AFACT, the BSMI made a progress report on the preparation of the 29<sup>th</sup> AFACT Conference.
- B. The BSMI participated in the UN/CEFACT International Trade & Business Processing Group (TBG) and Applied Technologies Group (ATG) working group meetings in Paris, France on October 25-29. Participation in this event allowed the BSMI to acquire WCO Data Model information standards, exchange information, and obtain information connected with the harmonization of core elements, which would facilitate the draft and revision of e-commerce related national standards.

- C. The BSMI participated in the 28<sup>th</sup> AFACT meeting held in Yokohama, Japan on November 24-26, at the end of which Taiwan was appointed the host country for the 29<sup>th</sup> AFACT meeting.



▲ Group photo of member state representatives at the 28<sup>th</sup> AFACT Meeting

## (2) WTO/TBT

- A. The BSMI participated in the 6<sup>th</sup> WTO/TBT Information Exchange Special Conference, the 52<sup>nd</sup> WTO/TBT Meeting, and Advanced Course about the WTO Agreement on Technical Trade Barriers on June 22-24; and also attended the 53<sup>rd</sup> WTO/TBT Meeting on November 3-4.
- B. The BSMI participated in the WTO Trade Policy Review Meeting in Geneva on July 5-7.
- C. The BSMI is responsible for the operation of the WTO/TBT Enquiry Point. As the end of 2010, the BSMI had assisted domestic competent authorities to submit 20 WTO/TBT notifications, and had distributed 1,594 TBT notifications made by WTO Members to the relevant competent authorities, industry associations and companies for commenting. To facilitate understanding of measures notified by countries with which Taiwan enjoys close trading relationships, the BSMI translated 616 notifications into Chinese. The BSMI further helped domestic competent authorities and companies to obtain information on TBT-related laws and regulations from other countries.

Comparison of WTO/TBT Enquiry Point Services			Units: cases
	WTO/TBT notifications made on behalf of domestic competent authorities	Distribution of WTO/TBT notifications	Translation of notifications made by countries with which Taiwan enjoys close trading relationships
2010	20	1,594	616
2009	14	1,658	709

### (3) APEC/SCSC

- A. The BSMI participated in the 1<sup>st</sup> SCSC Meeting and related meetings in Hiroshima, Japan on March 4-7.
- B. The BSMI participated in the 15<sup>th</sup> APEC Joint Regulatory Advisory Committee on Electrical and Electronic Equipment Mutual Recognition Agreement (EEMRA) seminar in Tokyo, Japan on May 25-28.
- C. The BSMI participated in the 2010 2<sup>nd</sup> SCSC Meeting and related meetings in Sendai, Japan on September 17-21.

### (4) OIML & CIML

The BSMI participated in the 45<sup>th</sup> CIML Annual Meeting in Oakland, US on September 21-24.

### (5) APLMF (Asia-Pacific Legal Metrology Forum)

- A. The BSMI participated in the 2010 Natural Gas Meter Training Courses in Chongqing, China on April 13-16, and made a presentation on the development of type approval and verification of diaphragm gas meters in Taiwan.
- B. The BSMI participated in the APLMF Annual Meeting and Working Group Meetings in Victoria, Canada on September 13-16, and presented a research on the metrological control of glucometers and introduced a new research in 2011 on the subject of metrological control of IVD.

### (6) ILAC and IAF

The BSMI participated in the joint annual meeting of the ILAC and IAF in Shanghai, China on October 19-30.

## (7) APLAC

The BSMI participated in the APLAC Annual Meeting in Osaka, Japan on December 6-12.

## (8) ICPSC and ICPHSO

- A. The BSMI participated in the 2010 ICPHSO Annual Meeting and Training Symposium in Washington DC, United States on February 14-21.
- B. The BSMI participated in the 7<sup>th</sup> ICPHSO International Conference and Training Symposium in the United Kingdom on November 29-30 and the International Product Safety Week 2010 (including ICPSC meeting) in Belgium on December 1-3.

## (9) IECQ

On April 13-15, the BSMI participated in meetings of the IECQ Annual Meeting and meetings of Chairman's Advisory Group (CAG), Conformity Assessment Bodies Committee (CABC), and Management Committee (MC). During the period, a meeting with the US National Authorized Institution was held to discuss the development of IECQ in Taiwan, promotion of IECQ system and future cooperation between US NAI and Chinese Taipei Electronic Components Certification Board (CTECCB).



▲ Photo of Mr. and Mrs. Smith, Chairman of IECQ, and the MC at the IECQ Annual Meeting dinner

## 2. Bilateral Cooperation

### (1) Bilateral negotiations

#### A. Participation in bilateral trade meetings

- ◆ The BSMI participated actively in Taiwan-Japan, Taiwan-Philippines, Taiwan-India, Taiwan-EU, Taiwan-New Zealand, Taiwan-Saudi Arabia, and Taiwan-Vietnam bilateral consultation meetings, to exchange views on issues concerning standards and conformity assessment.

#### B. Promotion of bilateral agreements

- ◆ The BSMI exchanged regulatory information with Mainland China on issues concerning

standards, measurement, inspection, certification/accreditation and consumer safety.

- ◆ The BSMI signed the Regulatory Cooperation Arrangement on Standards, Technical Regulations and Conformity Assessment with New Zealand through the representative offices of both countries. The RCA came into effect on March 4.
- ◆ The BSMI signed an Agreement on Information relating to Consumer Product Safety on October 19 through the representative offices of both countries.

## (2) Various international exchange activities

### A. International symposiums

- ◆ The BSMI had made the participation of 200 experts in attending standards-related meetings held by major international standardizing organizations for developing industry standards in areas of information and communications products, including the WiMAX Forum, 3GPP LTE/LTE-Advanced, IEEE 802.16, and IEEE 1609. The BSMI presented 333 advanced R&D results at these meetings, and 153 were accepted as technological contributions.
- ◆ The BSMI participated in the 2010 Cross-Strait Seminar on Standards Cooperation in Fuzhou, Mainland China, on March 4-6, at which discussion was undertaken in four working groups of standards cooperation, terminology comparison, energy-saving/new forms of energy, and Chinese information.
- ◆ The BSMI attended the 56<sup>th</sup> ISO/IEC JTC1/SC2/WG2 Meeting in San Jose, US on April 18-25 and successfully made CNS11643 Chinese Standard Interchange Code and symbols to be incorporated in ISO 10646 so as to discuss issues concerning RFID data structure, item management, security of data access, etc.
- ◆ The BSMI participated in the 16<sup>th</sup> ISO/IEC/JTC1/SC31 Plenary Meeting & WG2, WG4 and WG7 Meeting in Beijing, China on May 23-29.
- ◆ The BSMI held the first Cross-Strait Seminar on Measurement, Inspection, Certification/Accreditation and Consumer Product Safety in Taipei from May 31 to June 1, 2010, which was attended by 346 representatives from the industry, government, and academia across Taiwan. 4 working groups were set up to discuss respectively issues on measurement, inspection, certification/accreditation and consumer product safety. Decisions were also made on the work programs in 2011.



▲ 2010 Cross-Strait Seminar on Standards Cooperation.



▲ 1<sup>st</sup> Cross-Strait Seminar on Measurement, Inspection, Certification/Accreditation and Consumer Product Safety in 2010.

- ◆ The BSMI attended the 30<sup>th</sup> International Symposium on Halogenated Environmental Organic Pollutants and POPs (Dioxins Meeting) in San Antonio, United States on September 26.
- ◆ The BSMI provided training for 3 officials sent by the Saudi Standards, Metrology and Quality Organization and held seminars on the Product Certification System in Saudi Arabia on November 1-2.

#### B. Reciprocal visits with other organizations

- ◆ The BSMI received delegations from the United States, Singapore, China, the EU, Japan, the Republic of Gambia, Fiji, and Saudi Arabia for discussion on issues of mutual interests.
- ◆ From June 28 to July 2, the BSMI visited the Accreditation Division, Industrial Science and Technology Policy and Environment Bureau, Ministry of Economy, Trade and Industry (METI), the Japan Quality Assurance Organization (JQA), and the Japan Electrical Safety & Environment Technology Laboratories (JET) to gain an understanding of Japan's JIS Mark system reform and its current operation, which would be used as a reference for the review of CNS Mark system in Taiwan.
- ◆ From August 22 to September 5, the BSMI visited relevant wood associations in the United States (including the APA-American Engineered Wood Association, AWPA-American Wood Protection Association, ICC-International Code Council, Softwood Export Council, Southern Pine Inspection BSMI, and the Western Wood Products Association), material manufacturing factories, anti-corrosion factories and construction units; to exchange views with them on features of wooden construction materials and the potential development of green building materials in Taiwan, as well as to understand the standardization activities of wood industry in the United States.

- ◆ The BSMI sent a delegation to Italy to visit the ENEL Power Company on September 27 and France Reynold factories in France on September 30 for the purpose of developing activities of electric vehicle inspection and certification.

- ◆ The BSMI sent personnel to visit the National Renewable Energy Laboratory (NREL) in Colorado and NAL in Illinois in the United States on October 13-15 to implement the “Energy Technology Plan.”



▲ Group photo headed by Mr. Huang, Deputy Director General of the BSMI, and staff of the France Ministry of Economics, Finance and Industry.

- ◆ The BSMI visited the Institute for Fuel Cell Innovation (Canada) and the Canadian Hydrogen and Fuel Cell Association in Vancouver, as well as the Ballard company, which is one of the world’s largest fuel cell manufacturers, in Vancouver on October 15.
- ◆ The BSMI visited TÜV SÜD on November 25 to study the IEC 62282-2 about fuel cells and exchanged relevant inspection technologies and experience.
- ◆ The BSMI presented a paper at the IEEE Advanced Packaging System Design Seminar in Singapore on December 7-9.
- ◆ The BSMI visited Cologne, Germany to understand the implementation of the E-mobile pilot operating plan and visited the VDE Testing and Certification Institute on December 7-8.

### C. Personnel training and professional courses

- ◆ The BSMI sent personnel to Saudi Arabia to implement the Taiwan-Saudi Arabia Technical Cooperation Program on January 7-15.
- ◆ The BSMI appointed personnel as lecturer to Saudi Arabia from October 7 to November 5 to deliver courses on household electrical appliance safety standards and inspection technology research.
- ◆ The BSMI invited directors of JET, JHIA, and Mr. Tim Faber, senior engineer of TÜV SÜD, as lecturers at the Seminar on Hydrogen and Fuel Cell Standards, Inspection and Certification in the BSMI Electrical Appliances Inspection & Technology Building (in Sijhih) on October 22.

# *2010 Annual Report of BSMI*

- Publisher:** Bureau of Standards, Metrology and Inspection, Ministry of Economic Affairs  
4 Chinan Road, Section 1, Taipei City, Taiwan (R.O.C.)  
TEL: (02) 23431700  
FAX: (02) 23560998  
<http://www.bsmi.gov.tw/>
- Editor:** Accounting Office, Bureau of Standards, Metrology and Inspection,  
Ministry of Economic Affairs  
TEL: (02) 23431946-8
- Point of Sale:** Wu-nan Culture Enterprise  
No.600, Junfu 7th Rd., Beitun Dist., Taichung City , Taiwan (R.O.C.)  
TEL: (04) 24378010  
Government Bookstore  
1F, No.209, Songjiang Rd., Jhongshan District,  
Taipei City , Taiwan (R.O.C.)  
TEL: (02) 25180207
- Design and Print:** ZHEN-DA Printing Company  
No.7, Ln. 51, Sec. 1, Nanchang Rd., Zhongzheng Dist., Taipei City 100,  
Taiwan (R.O.C.)  
TEL: (02) 23965877
- Publication Date:** March 2011
- First Issue:** April 2008
- Price:** NT\$200
- All Rights Reserved :** No copying is allowed without approval from the BSMI.  
TEL: (02) 23431946-8