

2011

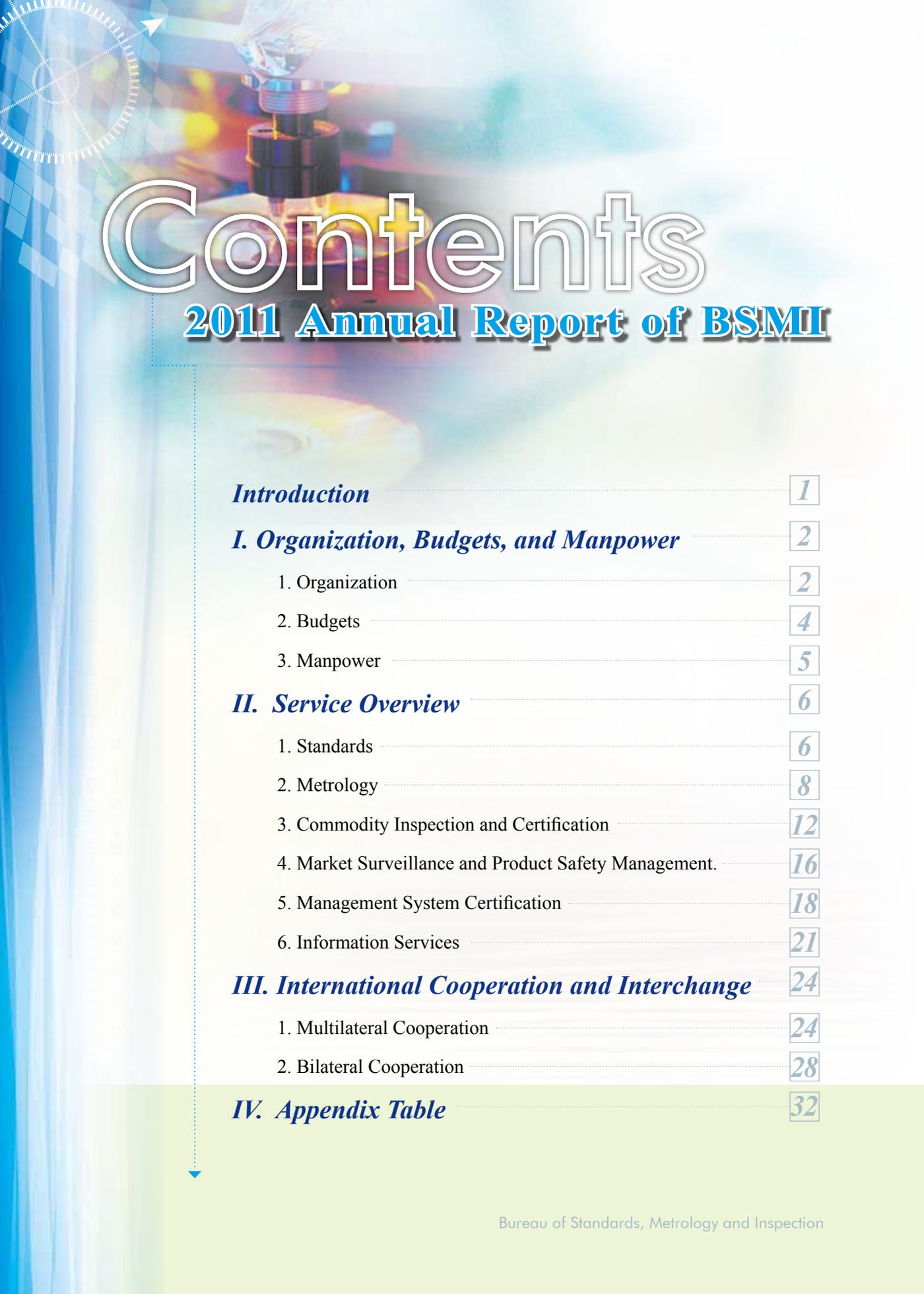
# Annual Report of BSMI



Press of BSMI  
March 2012



Bureau of Standards,  
Metrology and Inspection



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## Introduction

We still celebrate the joy of the 100<sup>th</sup> anniversary of the founding of our country. We crossed this historic milestone in the lively activities of Spring Festival. Government reorganization continuously followed the purpose of the establishment, to maintain the interest of the people. 2011 is regarded as “The Year of Safe Consumption” . The BSMI cooperated with the political concept of the Ministry of Economic Affairs’ “Innovation Economy” and “LOHAS Taiwan” planned the strategic objectives such as standard internationalization, measurement accuracy and good quality testing and secure products, to launch measures that are good for the people. The measures will ensure that people live happy and carefree lives.

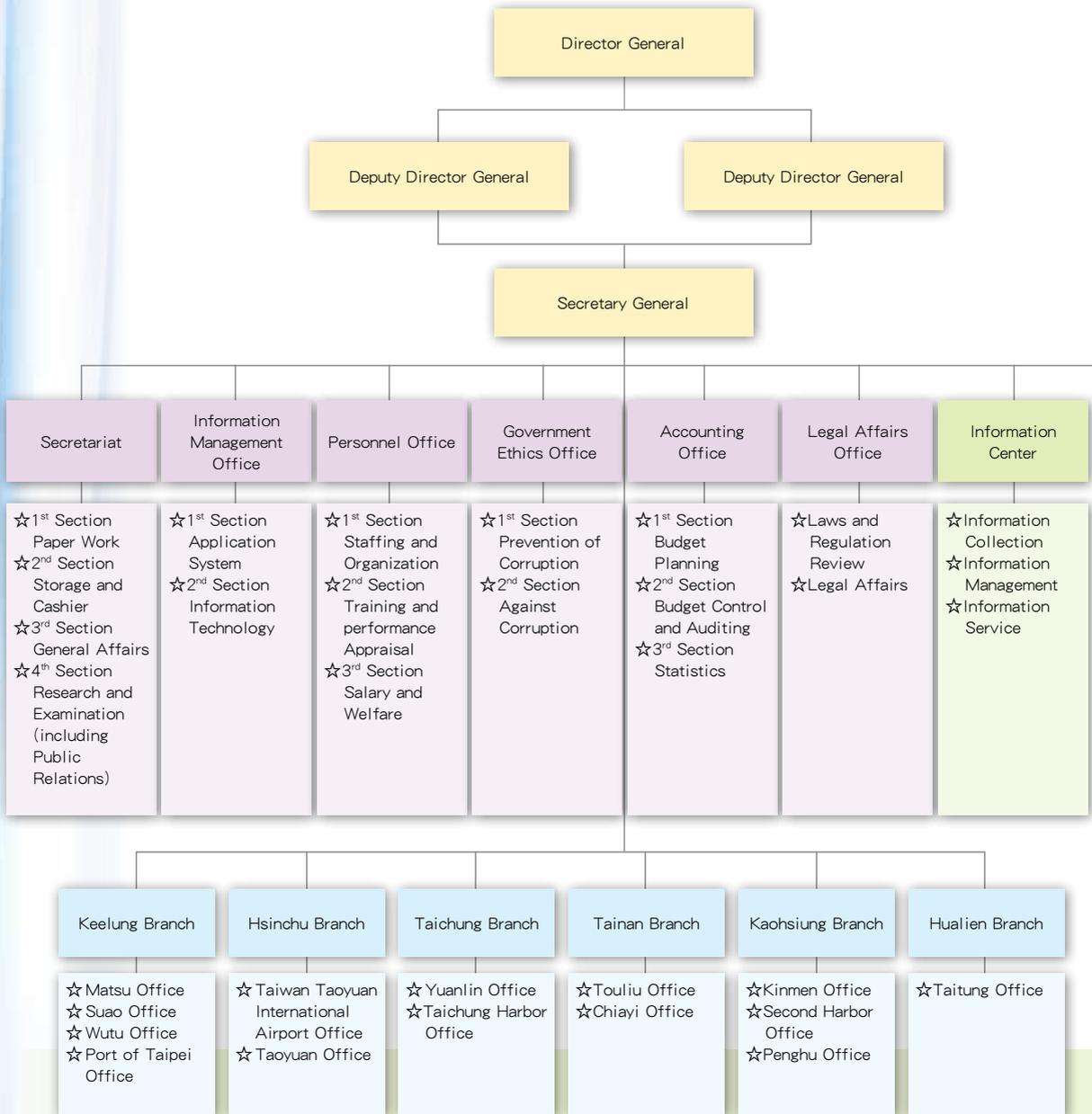
In 2011, we completed the building of the “Hazardous Chemical Substances Test Platform” to guard the people's quality of life. This is to prevent improper adding of hazardous chemical substances (such as environmental hormones, etc.) into domestic products. This program won the 2011 National Sustainable Development Award—sustainable development action plan implementation award; sustainable development of resources is a universal value. Based on this program, the council implemented 5 specific projects to promote the development of domestic chemically related industries, so national and environmental economic sustainability can complement each other.

Colleagues are encouraged to rack their brains in the coming year, to fulfill their responsibilities, and make an effort to build a high quality and safe living environment for the people. They are encouraged to move towards the vision; promote standards in the industry, enable accurate, true and fair measurement, support product inspection that give security, and create a good environment.



# I. Organization, Budgets, and Manpower

## 1. Organization

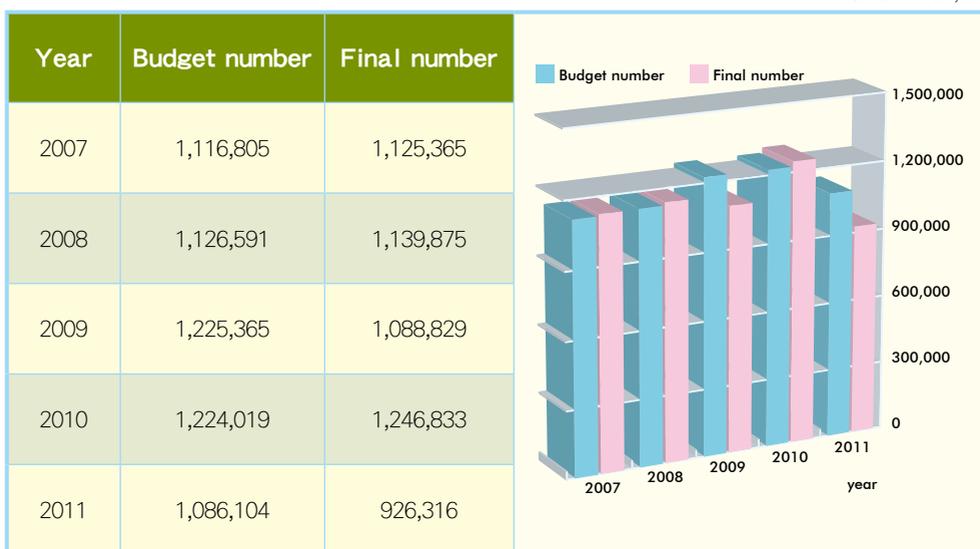




## 2. Budgets

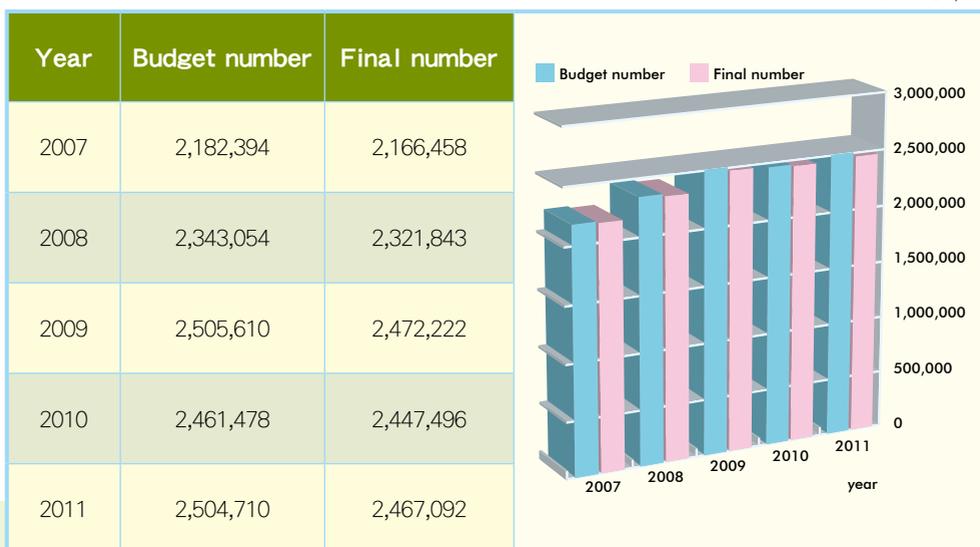
### » Annual income budget

Units : NTD1,000



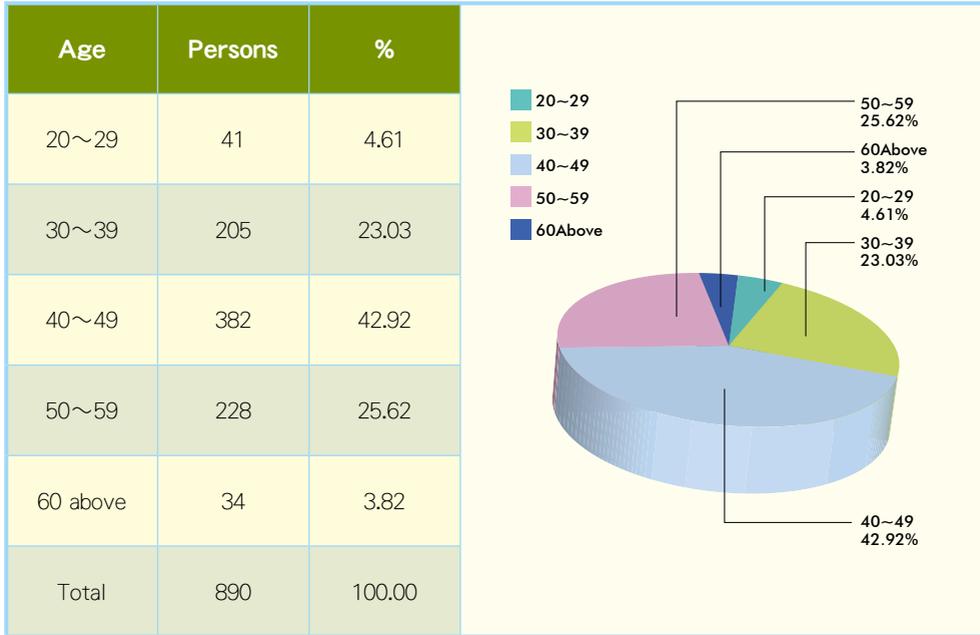
### » Annual expenditure budget

Units : NTD1,000

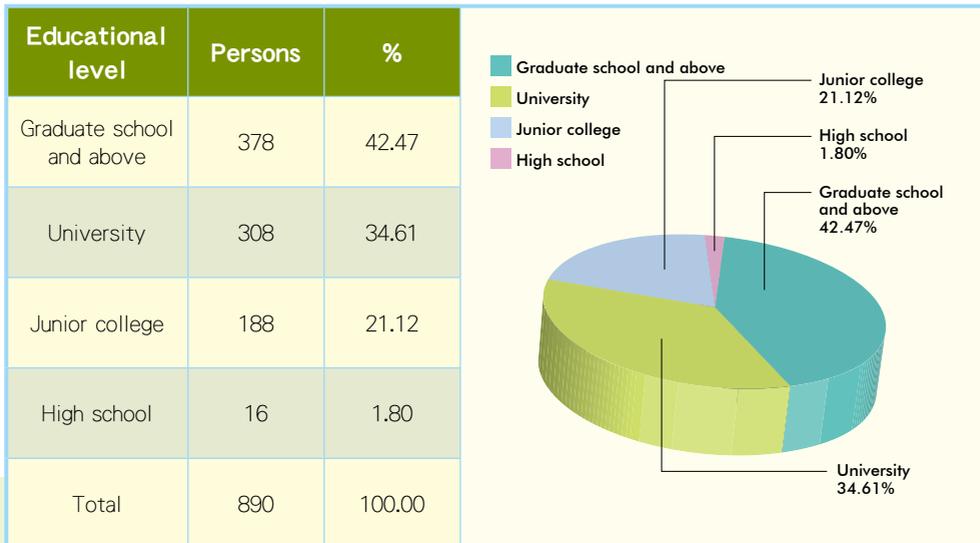


### 3.Manpower

#### » Personnel age distribution



#### » Personnel education distribution



## II. Service Overview

### 1. Standards

#### (1) Service report

In this world with more frequent logistics, money and information flows, BSMI expect everything to operate as expected. Therefore, the establishment of national standards for products and services does not only consolidate and improve the quality, safety, reliability, compatibility, efficiency and effectiveness of the environment, but also brings trust and dependency to the people and the industry. BSMI recognizes the high demand for standards for all occupations, to practically plan and handle standards in business.

In view of this, BSMI this year subsidized a number of companies and organizations to attend the international standardization activities held by the OMA, IEC, GSMP, and other organizations according to the “Directions Governing Subsidy to the Association Impels the Standardization Activity.” They discussed mobile communications, solar photovoltaic, automatic identification, and other relevant international standards, in order to actively master the pulse of international standards and collect the latest information.

BSMI held the “CNS Mark Product Procurement Conference” and the creative activity “CNS Mark Creative Video Contest” this year and included the CNS Mark into the teaching activities of primary schools to protect the interests of consumers; in addition, BSMI used major news media, newspapers, magazines and internet radio stations to publish related information, to convey the concept that “selection of the CNS mark means selection of quality assurance” .



#### (2) Service results

A. This year BSMI developed or revised 380 national standards and withdrew 159 inappropriate standards in cooperation with existing policies and industrial

developments. Until the end of this year there were 14,543 national standards in existence.

B. BSMI implemented the “Plan for Core Component Related Documents of Trade and Economic message” , cooperated with the “Superior Trade and Economic Plan” of the Executive Yuan and accumulatively finished a total of 452 Aggregate Core Components (referred to as ACC). The relevant data elements reached a total of 5,832.

C. National standards development strategy and mediation planning

◆Handled the maintenance outsourcing case of the “National Standard Information and Industrial Technology Standards” management system, in order to enhance the efficiency of the standards establishment and revision, and implement the informationization of standard operating procedures.

◆In order to lay a good foundation for national development, BSMI harmonized between national and international standards, completed 42 national standards drafts, including Chinese information, automatic meter reading systems, copper and copper alloy materials, medical equipment sterilization to ensure that national standards are consistent with international standards. BSMI wrote 4 research reports about industrial technology and international standards in related fields, so related industries can understand the development trends and industry dynamics of international standards.

D. Strengthening CNS Mark management and promotion

BSMI announced the addition of 16 new CNS Mark product items; including “Coated steel tube for electrical lines” .

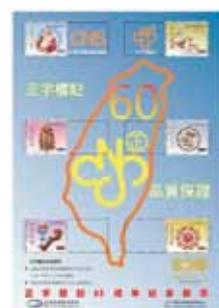
E. Important activities and advocacy

◆BSMI responded to the activities of “World Standards Day” on October 14 by holding the “Technical Standards Verification International Forum of Electric Vehicles” , “World Standards Day Expert Forum” , “Display Industry Standards and Technology Forum” ,



“Intelligent Vehicles Component Detection Technical Standards and Verification Energy Establishment Achievement Conference & Technology Seminar” , “4G Technology Demonstration and International Standards Trend Seminar” , “Nano-film Detection Standards and Technology Forum” , “Small and Medium-sized Fan Standard Testing and Validation Seminar” , “Personnel Training Seminars of Product Standards, Testing Technology and Verification in Health Care Industry” , to promote the importance of standardization, in order to improve the general public's standardization consciousness.

- ◆Held the 12<sup>th</sup> National Standardization Award & the 60<sup>th</sup> CNS Mark Anniversary Ceremony, to award the organization standardization award, the corporate standardization award and the standardization achievement award, in order to encourage all domestic organizations, groups, companies and individuals to promote and implement standardization, thus to complete the national standard system.



- ◆Responded to the “Cross-Strait agreement on cooperation in respect of standards, metrology, inspection and accreditation” signed on the 4<sup>th</sup> Chiang-chen Talks, by holding the “2011 Cross-strait Standard Cooperation Seminar and Work Team Meeting” .

## 2. Metrology

### (1) Service report

When it comes to dimension dispute, the slightest difference of measurement results will make a great difference. With constant breakthroughs and innovation in industrial technology, human life evolves towards energy saving, safety, and a sustainable environment. The related technology enable us to live more comfortable in the foreseeable future, which means that the measurement standards, product standards and testing technology will directly impact product performance and development speed, and even impact the consumer's acceptance of products.

BSMI expects to enhance the core capability of the National Measurement Laboratory in order to keep up with the advanced countries and reach the targets that BIPM promotes in recent years including the fields of medical, health, chemistry, and climate change. This year we sponsored the “National Measurement Laboratory Development Strategy Conference” and invited experts from the industry, government and academic sector to discuss countermeasures. It was thought that to back the industry technology and livelihood development, the National Measurement Laboratory should improve resources allocation in order to realize a sustainable environment and to protect the safe and healthy lifestyle of people.

As we all know measurement is widely used in a variety of fields such as science, industry, agriculture, commerce and trade, and the development strength of national measurement standards represents the economic strength of a country. In view of this, BSMI continues making an effort to effectively guarantee the people's health, safety and well-being.

## (2) Service results

A. Establish measurement standards, develop measurement techniques, and actively participate in international weights and measures organizations

- ◆Held the National Measurement Laboratory Development Strategy Conference to maintain the 135 measuring standard systems involved in 17 fields of National Measurement Laboratory. Provide 4,200 national measurement calibration services that can bring tens of billions in economic benefits the domestic testing market.
- ◆Newly established 3 sets of standard measurement systems including the “wafer surface nano-particle size measurement system” , the “scanning electron microscopy measurement system” and the technically sophisticated “assessment of parietal effect of C0-60 water absorption dose on primary standard ionization chamber in Monte Carlo method” . Provided semiconductor wafer measurement traceability and electronic product surface particle measurement and calibration services, and improved the accuracy of the radiation treatment dose standards, in order to ensure the medical safety of people.

- ◆ Kept participating in key comparisons activities and registered in key comparison databases of the International Bureau of Weights and Measures (BIPM), so the calibration reports issued by this country can be internationally accepted and conform to international standards. Until the end of this year, the registration results are shown in the following table:

		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)	17 items	9 items	3 items	5 items
	Items registered in CMC BIPM KCDB (Appendix C)	415 CMCs in 103 systems	318 CMCs in 87 systems	89 CMCs in 11 systems	8 CMCs in 5 systems

B. Held measurement technology proliferation activities

- ◆ Held the Taiwan Nanotechnology Standard Council (TNSC), in which the Secretariat and 4 technical working groups presented working reports, then discussed the TNSC standard rules and standard application cases, and made decisions about approving the new TNSC membership applications.



- ◆ Held the international forum on the subject of 2011 Workshop on nano-particles Size Measurement to share the latest development of nano-measurement technology and particle size measurement



instruments from different countries, which will be helpful in assessing the nano-meter product environment and achieving the consistency of global nano-particle measurement.

- ◆BSMI co-hosted the series of activity on the subject of “World Metrology Day” with the related technology development project execution organization and the local measuring instrument associations during May 14 to May 23, 2011. We held 12 activities which included fora and seminars and were conformed to the theme, Metrology-Measurements in Chemistry, for World Metrology Day in 2011. Not only did these activities manifest the importance of metrology to industry innovation, but also propagate the measurement concepts. Through promoting these events, we are able to ensure the purposes of trade fairness, environmental protection, and public health.
  - ◆Held the “stereoscopic display technology seminar” to discuss the future development and testing standards requirements of the 3D display industry in Taiwan.
- C. Conducted a nationwide inspection of measuring instruments to establish a fair market trade
- ◆Performed market surveillance on the place of display, sale, and distribution of measuring instruments, to eliminate noncompliance as well as trafficking and protect the rights and interests of legitimate entrepreneur and people.
  - ◆Carried out a nationwide inspection of the airport luggage weighing instruments and national freeway weighbridges.
  - ◆In cooperation with the Consumer Protection Commission, the Executive Yuan, implemented nationwide joint audit on the weighing instruments for liquefied-petroleum-gas tank in the mountain villages and the oil meters of self-service gas stations.
  - ◆In cooperation with the authority of local governments and the market autonomy councils, conducted the nationwide inspection of the measuring instruments during the important festivals.

◆Promoted the self-management plans for the weighing instruments for transaction use and the oil meters.

D. Held examinations in North, Middle and South Taiwan, to enhance the professionalization of metrological technical personnel. The metrological e-learning and service website combined with a computerized test platform provides a transparent, rigorous public online examination, so the public can study and get multiple services such as consultation and examination on the website.

### 3. Commodity Inspection and Certification

#### (1) Service report

After experiencing the plasticizer events, people were impressed by the inspection concept of “bold assumptions and careful verifications” . With the development of the technology industry, the significant change of the social structure, and the increasing demand on the quality of life, our daily life is full of a variety of convenience products; electronic and chemical products occupy the highest proportion, so product inspection and verification has become the goalkeeper of a happy life.

We established and revised a number of inspection requirements this year to become aware of the harm of defective products, to continue the previous policies and plan the business implementation programs. We included a number of chemical and electrical products as potential items needing inspection. Until the end of this year, a total of 650 items needed inspection.

The BSMI upholds a spirit of proactive service to respond to major accidents at home and abroad, to increase testing and inspect business for high-risk products that may endanger the security of livelihood. They immediately began to implement radiation contamination detection of products imported from Japan after the nuclear disaster in Fukushima, Japan on March 22, in total they made sampling inspections of 555 batches and the inspection results are all in line with regulations.

After the outbreak of plasticizer contamination in the food industry, the BSMI helped the manufacturers to provide export food inspection certificates to meet the requirements of different counties, so the manufacturers can successfully sell their

products. Since June 3, a total of 3,900 contracted inspections have been implemented.

To lead the sustainable development of the industry, this year we built a PV systems testing and verification platform, a LED lighting system testing and verification platform, an electric vehicle standards testing and verification platform, a health care industry standard inspection and verification platform, and a number of other new product standard inspection and verification platforms. We also improved inspection techniques and strengthened the professional capacity of inspectors, to provide a verification environment in line with international standards, to thus enhance the international competitiveness of our industry.

## (2) Service results

### A. Strengthen product inspection

- ◆ Added a number of inspection items, including “aquarium lighting fixture” , “plastic box and fix plate for low voltage A.C power meter” , “babies’ garments and clothing accessories” “children's bicycles” , “plastic eraser” “textiles products (towels, sweaters, clothing, swimwear, underwear, hosiery, bedding)” etc. In total 363 products and 12 items.
- ◆ Completed the discussion and revision of inspection standards on nine products; including eye protectors for vehicular users, fire retardant paints, unleaded gasoline for automobile, Portland cement, fire retardant wallpaper, wall coverings, vulcanized rubber tubes, industrial protective helmets, wall-mounted ceramic basins, etc.

B. Integrated civil inspection resources to participate in product inspection services, allowed the third party laboratories of European Union, the United States and Japan to apply for Molded-Case Circuit Breaker (MCCB) under the Voluntary Product Certification, that was implemented on July 1.

C. Built the new emerging product standards testing and verification platform to facilitate the development of new industries

- ◆ Completed the establishment of the LED light biological measurement system, the heat-pump water heater performance test systems, the Penghu wind turbine

testing system, the 10kW fuel cell test systems, the 75KVA converter test system and other detection equipment.

- ◆Cooperated with the Taiwan Electric Research & Testing Center to set up the central laboratory of the Photovoltaic System Detection and Verification Platform. Through the establishment of national laboratories, provided world-class products verification services, so the PV system product verification can meet international standards, to reach the policy objective of promoting the energy technology industry.



- ◆Cooperated with the Taiwan Electronics Testing Center to set up a central laboratory of a LED lighting system testing and verification platform, in expectation of meeting international verification standards, to promote the laboratory capacity comparison program of Taiwan, that can effectively exert the function of central laboratory, enhance relevant domestic detection levels, and promote the development of the Taiwanese LED lighting industry.
- ◆Set the Health Care Industry Standard Testing and Verification Platforms, completed the establishment of ISO16840-2 impact test and ISO20957-1 dental focal spot and pair resolution and low contrast resolution test, laboratory equipment electrical safety inspection, medical device inspection and energy establishment, etc.
- ◆Set an “electric vehicle standards testing and verification platform” , completed the construction of charge testing and verification energy, set up electric vehicles, batteries, charge safety, 5 motor/controller testing teams, charge EMC, completed the review of 10 electric vehicle conduction and charging system standards, drafted 4 electric vehicles and batteries standards, constructed 2 charge testing and verification energies, and participated in 1 American SAE battery standards

development meeting.

- D. In order to understand the accuracy of the results of relevant laboratory tests, the accuracy of the equipment operating conditions and operation methods, we participated in the ASTM bio diesel capacity comparison test, the detergent surfactants biodegradation degree comparison test, the antenna capacity comparison test, the LED lighting products laboratory capacity comparison test, etc. We assisted the laboratory to determine the difference between individual and overall test results, to confirm testing capabilities, and construct a verification environment in line with international standard.
- E. Assisted our manufacturers to expand the export markets of fish products
- ◆ Assisted processing plants with exporting fish products to Brazil.
  - ◆ The export EU fish products health management structure established by the Council assisted our manufacturers to expand the export fish products market. This year, we submitted a request to the European Union to log in the third-country plant list amendment a total of 9 times, and has helped 34 processing plants and 133 fishing boats to be included in the EU's third country login fish products plant.
  - ◆ Submitted a letter of guarantee and approved fish products to processing plants in Russia, as well as information of fish vessel plants. We also asked the economic division of the Embassy of Russia to transfer to Russia for review and login and to announce the approved export plants list on the website of the Federal Animal and Plant Health Surveillance Agency (FSVPS).
  - ◆ Recommend 34 aquatic product processing plants to be approved as the third-party import country by the Forestry and Fisheries Quality Authority, Agriculture and Rural Development Department of Vietnam.
  - ◆ According to the Korean Fisheries By-products Standards and Specifications, revised the announcement and submitted the approved verification list and the health certificate format, and contacted the Korean Ministry of Agricultural, Forestry and Fish Food to apply for more quotas.

## 4. Market Surveillance and Product Safety Management

### (1) Service report

The primary objective of administration is to take care of the well-being of people. When people have a healthy and secure life, the nation will naturally be peaceful, prosperous, and strong. “People are the foundation of a nation, and only if the foundation is solid can the nation enjoy peace” .

In recent years, as the Internet application services constantly upgrade, e-mail, website browsing, payment services extend and channel patterns also conform to the constant change of consumer habits, virtual channel transactions became more popular and the amount of transactions increase every day.

As a result, consumer products promoted and sold on the Internet relatively escaped inspection, this would later become a major worry of market supervision; therefore, the BSMI held a number of activities concerning cognition of safety for products sold on the Internet. We communicated with users by Question and Answer; we related knowledge about product safety marks and regulations, so consumers knew associated information and thus protected their own interests. During the same time we encouraged the report of network retailers not complying with product safety regulations, to achieve the effect of market surveillance.

This year the BSMI expanded the function of the Product Safety Information Network by allowing the manufacturers to submit defective products recall data (including recall information and monthly report of recall) online, that was not only convenient but also improved effectiveness. After receiving reports about product incidents, as long as the case was confirmed, the BSMI would quickly send its staff to investigate, and ask manufacturers to take corrective measures regarding unsafe products. They would then continuously track the case in order to fulfil the responsibility of safety guarantee.

This year, the BSMI made 369 joint inspections on non-compliant products with abnormal labeling. Through investigation and cooperation from the source the effect was quite good. The team found that 82,067 product items with false labels or non-compliant labels; while in the last year, we only made 240 joint inspections in 8 months,



but the total number of items with false labels or non-compliant labels were up to 79,407. The BSMI exposed related information of the violating practitioners by holding press conferences or issuing press releases, in order to alert the illegal manufacturers.

## (2) Service results

### A. Market product sampling and special market surveillance

- ◆ During this year the BSMI have conducted 51,455 market inspection, 2,097 purchased samples (including commodities not subject to mandatory inspection) and made sampling tests of 1,588 items.
- ◆ For risky or high law-violation frequency products, the BSMI carried out 58 special projects of market surveillance and purchased samples testing and the nonconforming products were tracked down and investigated in accordance with law. The obligatory inspection applicants of those unqualified products were imposed with a fine, to complete correction within a deadline, forbidden to display and sell, revoked the certification and so on depending on the seriousness of the circumstances. Moreover, the BSMI positively controlled the flow of nonconforming products in order to protect the interests of consumers.
- ◆ To prevent unsafe consumer products from entering into domestic market, the BSMI conducted border checks for RPC registered products according to the degree of potential risks. Until the end of this year, we have inspected 896 items of registered products at the border.

### B. Continued the expansion of the Product Safety Information Network

- ◆ We investigated the relation between product accident and product safety, and confirmed that there was a certain association between them; or if there were safety concerns, we required and assisted the manufacturers to disclose the information, and then asked the manufacturer to make improvements, remove or recall the products; and announced information about the products and manufacturers in violation of the inspection requirements. During this year 306 cases were fined.
- ◆ The BSMI actively collected 1,320 information items from the US Consumer

Products Safety Commission (CPSC), the European 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. Important activities and advocacy

- ◆Held “Recognition of Commodities subject to Inspection” seminars to have hopes of that all official officers and distributors can purchase and sell inspection-qualified products to prevent illegal ones from selling on the market.
- ◆Participated in the Consumer Protection Carnival-Treasure the Earth for Sustained Consumption organized by the Consumer Protection Commission and advocated the recognition of commodities subject to inspection and the metrology mark “” and “” promoting the concept of correct labeling.
- ◆Set up the Unsafe Products Prevention Advocacy Group, which held 518 activities in schools, exhibition halls and supermarkets, to teach consumers how to choose the inspection-qualified products and to avoid buying unqualified ones of poor quality for protecting consumers' rights.

## 5. Management System Certification

### (1) Service report

The BSMI is striving to achieve mutual recognition in even more certification areas through collaboration with the Taiwan Accreditation Foundation (TAF) and International Accreditation Forum (IAF). By making sure that domestic and foreign customs recognize certification certificates issued by the BSMI, the BSMI is ensuring that its certificates are tickets to global acceptance.

To make the excellent food and feed products successful export to countries all over the world, the Council responds to the demand of world trend, and according to the “Implementation Rules Governing the Export Food and Feed Health and Safety Management System Certification”, the Council promoted the Management System Certification of the export food processing plants and feed plants to assist them to develop in foreign markets.

The Council was a competent authority officially announced in the EU Commission No. 94/766/EC Decision to authorize Taiwan's EU export fish products, the Council managed to establish the official regulatory framework of the EU export fish products jointly with the Fisheries Department, Council of Agriculture, Executive Yuan, and the Animal and Plant Quarantine Bureau, to manage the approval, certification and registration of related factories, and assist the domestic factories to meet the requirements of EU hygiene regulations.

In our modern society whether an organization has the technical and operational capacity essential to launch good quality products and services shall be verified by the accreditation system. The TAF built an accreditation system synchronous to international standards, and was commissioned by the Council to sign a mutual recognition approach (MRA / MLA) with the International Laboratory Accreditation Cooperation (ILAC) and the International Accreditation Forum (IAF), to create an environment in line with the international accreditation standards.

The report issued by the TAF can be accepted by 72 accreditation institutions in 59 economies, to significantly reduce trade barriers, effectively enhance industrial competitiveness, be of great assistance and influence on the economic and trade development, and create a win-win situation among government, business, and consumers.

## (2) Service results

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

- ◆The TAF has permitted the BSMI to offer certification in 23 scopes, including a new accreditation scope “the 29<sup>th</sup> Category—maintenance of wholesale, retail, trading, and automobile, personal and family commodity” .

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

- ◆The TAF has permitted the BSMI to offer certification in 20 scopes.

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

- ◆The BSMI has passed the accreditation by information security management system Certification Organization.

D. OHSAS 18001 occupational health and safety management system certification services

◆The TAF has permitted the BSMI to offer certification in 7 scopes.

E. ISO 22000 food safety management system certification services

◆The TAF has permitted the BSMI to offer certification in 10 scopes, including a new accreditation scope “Category E9-- Noodles and rice noodle manufacturing industry”

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

◆The BSMI has passed the TOSHMS certification organization audit conducted by the Council of Labor Affairs, Executive Yuan.



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

◆Responding to the government's concerns regarding global warming and climate change, sustainable development issues, and energy conservation to reduce carbon emissions policy, on August 26, 2010, the BSMI has passed the examination by Environmental Protection Administration of Executive Yuan, and in accordance with the GHS verification guidance and related regulations to provide the GHG early project (emission strength) verification.

◆The BSMI is currently authorized to offer ISO 14064-1 verification in 5 scopes.

H. Export food processing plant “Hazard Analysis Critical Control Point (HACCP)” certification services

◆HACCP (export food processing plant certification of Hazard Analysis Critical Control Point system)

Until the end of this year, 72 factories have passed this certification.

- ◆EU (export food processing plant certification of EU export fish products)

Until the end of this year 35 factories have passed this certification.

## 6. Information Services

### (1) Service report

With the development of science and technology, the BSMI not only establishes CNS Online Service to provide free full text preview service, but also collects and manages standards information coming from domestic and worldwide countries to provide the public and users with convenience on searching for related standards information. The BSMI has contracted with overseas standards organizations on licensed photocopy agreements. So far there are 7 agreements with famous standards organizations. Its major goal is to provide legal, reasonable, convenient, safe, quick, updated and free of charge standards information. In addition, we also issue Standards Information E-paper monthly to enlarge our service items.

### (2) Service results

#### A. Status of collections

The Information Center, BSMI, collects standards information including Chinese Standards of the Republic of China (CNS), standards of major international standardization organizations, leading industrialized countries and major international associations as well as standards catalogues and metrology information.

Type	Format	Quantity	Remarks
CNS	Paper 、 Internet	14,543	2,694 in English version
Foreign standards	Paper	17,957	
	CD/DVD version	18	
	Bound volume	18	
	Virtual collection (Internet downloads)	8	
Standard catalogs	Paper	89	
	CD/DVD version	18	
Metrology information	Paper	310	

## B. Standards information in translation and publication

Taking account of business needs from industries and soliciting the opinions from the industries, experts and scholars, the BSMI establishes CNS standards English version. The BSMI exchanges CNS standards English version with other international standards organizations. This year the BSMI added 31 new CNS standards English version, withdrew 59 and amended 58 totally. At the end of 2011, there were 2,694 CNS standards with English version, which are mainly focusing on chemical industry, electronics, and machinery and food standards.



## C. Information search system

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

The BSMI has established the CNS Online Service providing a 24-hour service. The public can perform online queries at any time and preview and download related CNS standards information. At the end of 2011, CNS information applications made via the Internet is up to 96.8% and the number of users is 457,668.

### ◆Foreign Standards Online Catalogue

This system (<http://fsms.bsmi.gov.tw/cat/>) enables the public to make real-time online queries of foreign standards collection of Information Center, BSMI. At the end of 2011 the collection of the system reached about 200,000 standards

information from more than 74 standards organizations. In 2011 there were 341,334 users utilizing the system.

#### D. Licensed photocopy service

The BSMI signed licensed-photocopy agreements with famous foreign standards organizations to provide industries, business, governments and academic with required standards quickly and legally. At the end of 2011, BSMI has signed licensed-photocopy agreements with following standards organizations and their royalty ratios are as follows:

Acronym	Full Name	Royalties
AS	Standards Australia	40%
ASTM	ASTM International	60%
BS	British Standards Institution	40%
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 by means of international cooperation it can help the industry to obtain product 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 2011 multilateral and bilateral interchange undertakings are summarized as follows:

#### 1. Multilateral Cooperation

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

- A. The BSMI held 29<sup>th</sup> AFACT mid-term council meeting, two committees, Community Support Committee (CSC) and Techniques & Methodologies Committee (TMC), two working groups, Travel, Tourism and Leisure WG (TTL WG) and eCOO WG in Kaohsiung from May 2 to 4, which were attended by 64 representatives from 7 countries, including Afghanistan, Iran, Japan, South Korea, Thailand, Vietnam and Taiwan, to promote industries to meet international standards.
- B. The BSMI participated in the 18<sup>th</sup> UN/CEFACT Forum Meeting held in Geneva, Switzerland on September 19 to 23. Participation in the 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 held the 29<sup>th</sup> AFACT Meeting in Taipei from November 1 to 4, which included the AFACT Steering Committee Meeting, the Committee Meeting

and the Plenary Meeting. The BSMI also held the 2011 EDICOM Seminar, Exhibition on the Achievements of Technology Services and Electric Vehicles, which were attended by representatives from 8 countries, including Japan, Korea, Iran, Thailand, Singapore, India, Pakistan and Taiwan. Around 126 representatives attended the AFACT meeting, 100 representatives attended the EDICOM, and 100 representatives participated in the Exhibition on the Achievements of Technology Services & Electric Vehicles. These activities increased the visibility of Taiwan in the participation of international affairs, enhanced the actual interaction and cooperation relationship between countries in the Asia-Pacific region.



▲Group photo of member state representatives at the 29<sup>th</sup> AFACT Annual Meeting

D. On November 4, the Council held the Asia-Pacific Night for eASIA Awarding Ceremony, and 3 projects of Taiwan were awarded, including the China Productivity Center (CPC) that won the first place on the category of the Bridging Digital Divide, Formosa Chang Inc. that was awarded the 2<sup>nd</sup> place on Electronic Business in Private Sector, and the Financial Data Center of MOF that was awarded the 3<sup>rd</sup> place in the Electronic Business in Public Sector, all promoting the exchange between the Taiwanese industry and the international level, and effectively driving the development of domestic industries.

## (2) WTO/TBT

- A. The BSMI participated in the Regulatory Cooperation Seminar and the 56<sup>th</sup> regular meeting of the WTO/TBT (Technical Barrier to Trade) committee held in Geneva from November 8 to 11.
- B. The BSMI is responsible for the operation of the WTO/TBT Enquiry Point. As the end of 2011, the BSMI had assisted domestic competent authorities to submit 26 WTO/TBT notifications, and had distributed 1,528 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 819 notifications into Chinese. The BSMI further help 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
2011	26	1,528	819
2010	20	1,594	616

#### (3) APEC/SCSC

- A. The BSMI participated in the 1<sup>st</sup> APEC/SCSC Meeting and related meeting in Washington DC, USA on February 28 to March 6.
- B. The BSMI participated in the 16<sup>th</sup> APEC Joint Regulations Advisory Committee on Electrical (JRAC) and Electronic Mutual Recognition Agreement (EEMRA) seminar in Chicago, U.S.A., on May 22-28.
- C. The BSMI participated in the 2<sup>nd</sup> APEC/SCSC Meeting and related meeting in Washington DC, in San Francisco, U.S.A., on September 12-21.
- D. From October 12 to 13, held “APEC Workshop on Ensuring Photovoltaic (PV) Reliability and Durability” in Taipei in collaboration with the United States. There were 115 domestic and foreign photovoltaic experts attended, including 17 APEC member States.

#### (4) OIML&CIML

The BSMI participated in the 46<sup>th</sup> CIML Annual Meeting in Czech Republic on October 10-14.

#### (5) CGPM

The BSMI participated in the 24<sup>th</sup> CGPM Annual Meeting in France on October 17-21.

#### (6) APLMF

The BSMI participated in the APLMF Annual Meeting and Working group Meetings held in Busan, South Korea from September 4 to 9, and reported a research on legal control of medical devices; in particular, planning a survey on the legal control of medical devices among APLMF in 2012 and working with the Working Group on Mutual Recognition Arrangements to draft the Guidelines of Medical Devices Control Measures, and strived to organize and host an infrared ear thermometer training courses.

**(7) APMP**

The BSMI participated in the APMP Meeting in Kobe, Japan on December 7-9.

**(8) APLAC**

The BSMI participated in the APLAC Annual Meeting in Manila, Philippines on September 11-17.

**(9) PAC**

The BSMI participated in the PAC Annual Meeting in Manila, Philippines on June 11-18.

**(10) ICPSC and ICPHSO**

The BSMI participated in the 2011 ICPHSO Annual Meeting and ICPSO Training Symposium in Orlando, USA on February 22 - 25.

**(11) IECQ**

- A. The BSMI invited the Chinese Taipei Electronic Components Certification Board (CTECCB) to attend the IECQ Conformity Assessment Bodies Committee (CABC) and the Management Committee (MC) held in Singapore from April 4 to 8, 2011.



▲Chairman Cheng Fu-Hsiung & the Executive Secretary Mr. Lee Shu-He participated in the IECQ CABC and the IECQ MC meeting



▲Group photo of Vice-Minister of the Ministry of Economic Affairs, Mr. Liang Kuo-Hsin, the President of IECQ MC, David Smith, and the Chairman of CTECCB, Mr. Cheng Fu-Hsiung when invited to participate in the TAITRONICS/ Broadband Taiwan opening ceremony, 2011

The IECQ MC President designated CTECCB's Chairman Mr. Cheng Fu-Hsiung, to report the IECQ promotion activities made by CTECCB in Taiwan at the IECQ MC Meeting, 2012.

- B. By the arrangement from the CTECCB Chairman Mr. Cheng Fu-Hsiung, the BSMI invited the IECQ MC President, David Smith, to participate in the opening ceremony of the Taipei International Electronics Show TAITRONICS / Broadband Taiwan in autumn 2011. Mr. Smith, made an opening speech and cut the ribbon at

the ceremony, to promote the IECQ system and express his thanks to CTECCB's efforts on playing the important role of the system.

## 2. Bilateral Cooperation

### (1) Bilateral negotiations

#### A. Participation in bilateral conferences

◆The BSMI participated actively in Taiwan-U.S., Taiwan-Japan, Taiwan-EU, Taiwan-New Zealand, Taiwan-Philippines, Taiwan-Korea bilateral conferences, to exchange views concerning standards and conformity assessment.

#### B. Promotion of bilateral agreements

◆The BSMI shared information on standards, metrology, inspection, certification, accreditation, and consumer product safety with Mainland China.

◆The BSMI and the SASO signed the Technical Cooperation Program with each other on January 10 and February 11 respectively. This Program not only promoted the benefit of enhancing technical cooperation and facilitating trade bilaterally but also maintained the friendship between both sides.

◆The BSMI discussed the accreditation co-operation in Thailand during February 14 to 18, and signed the 2<sup>nd</sup> Department Meeting Agreement Record with the Department of Science Service/Bureau of Laboratory Accreditation DSS/BLA on February 15.

### (2) Various international exchange activities

#### A. International symposiums

◆The BSMI participated in the SAE Automotive Electric Reliability Standards Committee Meeting held in Detroit from April 9 to 17 in order to grasp the situation of automotive Electric standards established by the SAE (Society of Automotive Engineers International), and understand the vehicle development status and trends of international vehicle manufacturers.

◆The BSMI assigned officials to attend the Cross-strait Metrology Seminar held in Ningbo city, Zhejiang Province of Mainland China on April 20-24. During the

seminar 26 experts from Taiwan and some 150 ones from Mainland China exchanged their professional opinions on Metrology, including discussion about Cross-strait terminology and technical terms and agreement on several cooperation of Metrology.

- ◆ The 2011 Cross-Strait Symposium on Metrology, Inspection, Certification, Accreditation and Consumer Product Safety and Related Working Groups Meetings were held in Jinan, Shan Dong, Mainland China on April 25-28. The event was attended by 63 experts from Taiwan and 200 delegates from Mainland China. Both sides agreed on 5 cooperation programmes between national measurement laboratories, establishment of 7 expert groups and the operation of information exchange mechanism on consumer product safety.
- ◆ The BSMI had made the participation of 186 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, IEEE 1609 etc. The BSMI presented 278 advanced R&D results at these meetings, and 109 were accepted as technological contributions.
- ◆ The BSMI participated in the ISO TC39/SC2 Test Conditions for Metal Cutting Machine Tools Meeting in Zurich, Switzerland from May 14 to 22. Through participating in discussions about machine tools related to international standards, understood the current technical amendment situation and future development trends of machine tools international standards, and exchanged views with other countries that would be helpful for the planning and development of machine tool-related national standards.
- ◆ The BSMI attended the 18<sup>th</sup> ISO/TC207 Annual Meeting and SC1/SC7 Meeting held in Oslo, Norway from June 25 to July 1. Through participating in the



▲ Group photo of delegations in the 2011 Cross-strait Metrology Seminar



▲ Group photo of participants at the 2011 Cross-Strait Symposium on Metrology, Inspection, Certification, Accreditation and Consumer Product Safety.

thematic discussion about international standards of environmental protection related issues, understood the current development situation and trends of the international standards of environmental protection.

- ◆ The BSMI attended 2011 IEEE International Symposium on Electromagnetic Compatibility (EMC) in Long Beach, in California, USA on August 14 to 19.
- ◆ The BSMI held the 2011 Cross-strait Standards Cooperation Seminar and Working Group Meeting in Grand Hotel, Taipei from August 29 to 30, attended by 20 China mainland officials and experts, and 112 Taiwan experts from the industry, government, and academia. In the seminar, the two sides not only reported about the development of significant national policies and standardization, but also exchanged on terminology, textiles, wind energy, etc.



▲ Group photo of both delegations in the 2011 Cross-strait Standards Cooperation Seminar

- ◆ The BSMI attended the APEC Workshop on Energy and Green Transport Benefits of Electric Vehicles held in Hong Kong from October 24 to 25, to participate in and understand the development status and trends of the electric vehicle energy and green transportation in different countries.
- ◆ The BSMI attended the 37<sup>th</sup> ISO/IEC JTC1/SC2/WG2/IRG Meeting held in San Francisco, USA from November 6 to 13, to promote the inclusion of words and symbols of CNS 11643 [Chinese standard interchange code] into ISO / IEC 10646, and to look for opportunities for the next work phase of IRG, in order to promote the development of cultural and creative industries.
- ◆ The BSMI in collaboration with the European Economic and Trade Office (EETO) hosted in Taipei the seminar “Supplier Declaration of Conformity” on November 21. Both sides shared the experience on the current status of DoC, market surveillance, and consumer protection. There were 191 attendants from the enterprise, government, and academy.
- ◆ The BSMI attended the 5<sup>th</sup> Committee of Asian Standardization for photo catalytic Material and Products Meeting held in Tokyo Japan from November

28 to December 1. Through participating in the discussions about photo catalyst material and technical standards, understood the integral current situation and trends of standards and technical cooperation of Asian countries that would be helpful for the development, amendment and planning of photo catalyst materials and product-related national standards.

- ◆ The BSMI attended the ISO/TC197 Hydrogen Energy Standards Work Group Meeting and Annual Meeting held on December 12 to cooperate and communicate widely about the application achievements in the hydrogen storage, transportation, use and standards development.

#### B. Reciprocal visits with other organizations

- ◆ The BSMI received delegations from Indonesia, Slovakia, Viet Nam, Argentina, the EU and the United States for discussion on issues of mutual interest.
- ◆ Director of Industry Department of Indonesian Economic and Trade Office to Taipei visited the BSMI on January 19, in hope that both sides could have more close cooperative relations in the future; on November 17, the committee member of the National Consumer Protection Agency visited the BSMI for understand the role of BSMI on consumer protection; On December 15, the five officers of the Indonesian Ministry of Industry visited the BSMI and both sides introduced their functions and activities and discussed the direction of future cooperation.
- ◆ The BSMI visited on April 26 to TÜV SÜD Product Service GmbH in Munich, Germany; on April 27, visited the VDE (Verband Deutscher Elektrotechniker) and PTB (Physikalisch-Technische Bundesanstalt) in Frankfurt, Germany and Braunschweig.
- ◆ The BSMI received the delegation from U.S. Consumer Product Safety Commission (CPSC) and exchanged views and discussions of Consumer Product Safety issues.

#### C. Personnel training and professional courses

- ◆ The BSMI sent personnel on January 1 to April 2 and September 1 to November 27, to participate the National experts in professional training (NEPTs) of the EU DG SANCO.

## IV. Appendix Table

### 1. National Standards

Year	Item	Existing (Kind)	Establishment (Kind)	Revision (Kind)	Abolition (Kind)	Standard Providing(Piece)			Foreign Standard Collecting (Piece)	Consulting Service (Person/ Time)
						Total	National Standard	Foreign Standard		
2007		14,219	203	143	61	180,407	167,547	12,860	10,989	19,489
2008		14,303	141	176	57	191,908	180,796	11,112	11,386	17,473
2009		14,390	132	143	45	184,660	173,411	11,249	8,120	18,739
2010		14,473	240	175	157	160,152	149,839	10,313	13,047	16,023
2011		14,543	229	151	159	186,627	178,978	7,649	8,058	13,554
	Increase or Decrease Percentage Compared to the Last Year (%)	0.48	-4.58	-13.71	1.27	16.53	19.45	-25.83	-38.24	-15.41

### 2. Verification, Inspection of Metrology— by Branch

Unit : Piece

Year	Item	Total	Headquarters of BSMI	Keelung Branch	Hsinchu Branch	Taichung Branch	Tainan Branch	Kaohsiung Branch	Hualien Branch
2007		2,819,523	1,223,956	15,246	79,716	75,198	1,360,509	53,991	10,907
2008		3,414,693	1,364,855	16,206	129,771	46,986	1,792,566	54,016	10,293
2009		3,174,282	1,858,447	17,923	123,690	129,438	845,545	188,735	10,504
2010		3,225,554	1,366,359	17,605	124,777	196,792	1,364,589	145,273	10,159
2011		3,537,562	1,685,371	20,724	146,141	150,239	1,382,666	142,118	10,303
	Increase or Decrease Percentage Compared to the Last Year (%)	9.67	23.35	17.72	17.12	-23.66	1.32	-2.17	1.42

### 3.The Commodity Inspection— by Branch

Unit : Batch

Year \ Item	Total	Headquarters of BSMI	Keelung Branch	Hsinchu Branch	Taichung Branch	Tainan Branch	Kaohsiung Branch	Hualien Branch
2007	394,931	1,557	221,214	77,177	27,781	1,322	65,539	341
2008	401,534	1,545	223,519	70,888	26,177	1,304	77,759	342
2009	392,363	1,521	215,092	74,672	24,378	1,183	75,195	322
2010	455,103	1,736	251,623	84,000	35,341	1,235	80,781	387
2011	357,821	1,410	205,850	102,940	24,760	1,226	21,213	422
Import Inspection	350,961	94	205,643	102,083	22,509	65	20,567	-
Inspection for Domestic Market	6,860	1,316	207	857	2,251	1,161	646	422
Increase or Decrease Percentage Compared to the Last Year (%)	-21.38	-18.78	-18.19	22.55	-29.94	-0.73	-73.74	9.04

### 4.Market Surveillance

Year \ Item	Inspection of Commodities for Domestic Market (Item)					Distributor Inspection for Domestic Market (Company)	Purchased Sample Inspection for Domestic Market (Item)
	Total	Chemical	Toy	Electronic and Electrical	Machinery and Mechanical		
2007	32,964	3,614	8,943	15,818	4,589	9,316	2,044
2008	30,673	4,481	8,169	14,696	3,327	9,090	1,739
2009	38,367	5,241	9,295	20,156	3,675	9,482	1,606
2010	48,297	6,203	10,778	26,632	4,684	9,712	1,644
2011	51,455	5,496	11,390	30,051	4,518	16,625	1,715
Increase or Decrease Percentage Compared to the Last Year (%)	6.54	-11.40	5.68	12.84	-3.54	71.18	4.32

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