VCCI DAYORI

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Contents

Contribution

My hobby —Collection of butterflies

Koichi Mori

Introduction

One of my hobbies is the collection of butterflies, breeding them and taking picture of them, which started as I was fascinated by them when I was an elementary school kid. My summer vacation project in elementary and junior high school days was the collection of butterfly specimen. This project was aborted while I was a high school student. I restarted it to help my son gather butterflies specimens for summer vacation project when he was in the 4th grade in elementary school. Around this time I was engaged in OEM business of computer peripheral equipment for overseas manufacturers. In many occasions of overseas trips in those days I kept collecting butterflies with a butterfly net I brought along with me. I continued this custom of butterfly collection in overseas business trips while I was in charge of international standardization. The places I went for the collection included the Sierra Nevada in California and suburb of Washington DC in the US, suburb of Madrid in Spain, suburb of Avignon in France, suburb of Geneva in rent-a-car and even to Italy through the Montblanc tunnel while in Europe.

After I retired from the company in 2009 I frequently visited Mongol, 5 years in a row after 2010. In the vast grassland along the highway between Ulan-Bator and local cities, there only are herds of sheep, cows, horses and camels, but if you get into valley from rough roads there you see flower zones with a lot of butterflies. In terms of the number of kind of butterflies it is smaller than in Japan but in terms of the number of individual butterflies it is overwhelmingly large.

Parnassius in the vicinity of Tsenkher khaluun Rashaan, the Mongolian People's Republic

Kinds of butterflies and situation they are in Japan

There was an exhibition of butterflies of all kinds in Japan at the Komaba Museum of the University of Tokyo in 2014. The number of kinds of Japan native-born butterflies was 243. The number of strayed butterflies from overseas in Typhoon etc. and settled in Japan and exotic butterflies brought into Japan by people besides native-born ones was 276. Recently it is not rare that we see butterflies even in Tokai and Kanto area which are normally inhabiting in warmer regions in the south such as Okinawa and Kyushu. A conceivable reason for such phenomena is that living through the winter has become possible for butterflies due to global- warming and there might be eatable trees and grass available for larvae. On the other hand the overall population of butterflies is on the downward trend. Conceivable reasons for that include the distraction of butterfly nurturing ground by the development of roads and housing areas, deforestation of copsewood, changes of vegetation patterns by global warming, dehydration of mountains by upgraded side ditches and paving of woodland paths, and the distribution

of agricultural chemicals. Also a problem is feeding damages caused by greatly increasing deer. Vegitation for larvae and honey producing plants for butterflies have greatly decreased or disappeared by deer eating up undergrowth.

Protection of butterflies and regulations

There is much information indicating great decrease or even distinction of butterflies which were seen anywhere before. There are 63 kinds of butterflies listed as threatened species in the red book of the Ministry of the Environment. There are groups acting for the protection of butterflies in many locations in Japan. Their activities include setting a sign calling for the protection of butterflies, mowing of grasslands, cutting of undergrowth, planting of butterfly eatable grasses, periodic monitoring and artificial breeding. It is not easy to propagate such activities in wider circles because it needs a long time (at least five years) to see the results on top of considerable financial and human resources burdens.

It is prohibited to catch protected butterflies (designated country by country) or any butterflies in the protected areas. The Washington Convention which Japan is affiliated with is an international convention enforced across the national boarders to prohibit transfer of endangered species (animals and plants). Caution should be employed on butterfly specimen sold in souvenir shop of airports because they may include butterflies subjected to the Washington convention. There are regulations on catching butterflies not protected by laws. In the US, for example, rules against catching butterflies depend on local government of the region. Catching butterflies is allowed in public places and national forests if it is not for profit making. But you need permission in national parks, national monuments, national wilelife refuge and state parks. Within private places you need the permission of the owner of the place. European and Asian countries also have their own regulations against butterfly catching. In Japan too there are various regulations including those on species (ban on collection), designation as precious natural product by prefecture and local towns and ban on collection of local animals and plants etc. However, the enforcement of those regulations is generally loose. What do you think about the case in which building villas in the protected areas by using earthmovers?

In closing –

Recently children have less and less occasions to collect butterflies. Homework for the summer vacation scarcely includes insects collection. Less and less children touch insects these days. Maybe it is because parents tell their kids not to touch butterflies as they come out in a rash with scales, I am afraid. True, butterflies are on the decrease, but collection of them by kids will have little or no impact to it. I hope children will deepen their interest in the nature by observing, touching and collecting insects in the field. I donated a part of my butterfly collections to the four elementary schools which my grandchildren attend by hoping kids will increase their interest in the

Present to the Ochiai No.6 elementary school in the Shinjuku ward

nature.

Koichi Mori

Born in 1941

1964 Joined Fujitsu upon graduation from the precision mechanical engineering department of the University of Tokyo

1972 – 1975 Assignment to Fujitsu California Lab

1985 Manager of the overseas engineering department

1988 Manager of international standards operations

1996 Manager of the Numazu plant

2000 – 2004 Japan representative to IEC SMB

2005 – 2009 Chairman of IEC/TC111 Environmental standardization for electrical and electronic products and systems

2009 Retired from Fujitsu
Cited IEC Lord Kelvin Award

2010 Cited the Prime minister award on Industrial Standardization

Committee Activities

● Steering Committee

Dates	November 18, December 16, 2015 and January 20, 2016
Agenda items	● 1. Members admitted in October through December ● 2. Activity plan for FY2016 ● 3. Budgetary plan for FY2016 ● 4. Proposed revision of the Agreement of VCCI based on CISPR 32
Pending business	● Agenda item 3 ● Agenda item 4
Decisions made and reports given	● Agenda item 1. Approved ● Agenda item 2. Approved with partial modification ● Reporting item 1. Activity report for the months of November through January by subcommittees (Technical Subcommittee, International Relations Subcommittee, Market Sampling Test Subcommittee, Education Subcommittee and Communication Subcommittee) ● Reporting item 2. Secretariat report on membership changes and the number of conformity verification reports filed for the period of October – December ● Reporting item 3. Budgetary execution status (on membership fees and expenditure of each project) for the period of October – December ● Reporting item 4. Attendance to R&TTE CA/REDCA meeting held in Nice ● Reporting item 5. VCCI seminar at Saitama Industrial Technology Center

● Technical Subcommittee

Dates	November 6 and December 14, 2015
Agenda items	● 1. Explanatory meeting on the process for 2016 New VCCI rules setting and Technical symposium ● 2. MIC draft on CISPR 16-1-1 and 16-1-4 ● 3. Effects of materials for EUT table ● 4. Method of evaluation for the size of EUT test volume ● 5. Proposal on CISPR draft standard for VHF-LISN ● 6. Validation of the reference value for antenna used in FAR
Pending business	● Agenda items 2 through 6
Decisions made and reports given	● Agenda item 1. Hold explanatory meeting combined with technical symposium on January 15

● International Relations Subcommittee

Dates	November 12, December 10, 2015 and January 8, 2016
Agenda items	● 1. Preparation of VCCI Dayori draft on the VCCI 30th anniversary International Forum ● 2. Development of information sharing system on the direction on EMC standards ● 3. Study of overseas EMC regulations ● 4. Activity plan for FY2016
Pending business	● Agenda item 2. Preparation of the final version
Decisions made and reports given	● Agenda item 3. To prepare for the survey in Korea on the EMC international standards ● Held VCCI International Forum to commemorate VCCI 30th anniversary on November 20

● Market Sampling Test Subcommittee

Dates	November 9 and December 8, 2015 and January 15, 2016
Agenda items	● 1. Document inspection ● 2. Revision of technical requirements and CISPR follow-up ● 3. Test result - Failed tentative ● 4. Introduction of BNetzA ● 5. On display ● 6. FY2016 plan and budget ● 7. Others
Pending business	● Agenda item 3. (Failed – tentative as remaining open) Company D: It was revealed that measurement by the member was "passed" level. Problem was that host equipment and test conditions were different. Will further confirm the test conditions. ● Agenda item 5. VCCI mark was found on two non-member companies whose parent companies are VCCI members. Will confirm the fact and recommend them to join VCCI. ● Agenda item 7. Others Study the introduction of an additional rule that market sampling test be exempted for members who prove EMI quality of their products with their internal periodical quality confirmation based on their quality control documents.
Decisions made and reports given	● Agenda item 1. 15 cases were inspected. 11 out of 15 cases passed as no problem found except erroneous description which was to be corrected. Waiting for responses for the rest from the owners ● Agenda item 2. VCCI taskforce is tackling the introduction of VCCI requirements based on CISPR 32. The rules for market sampling test are required to align with it. VCCI shall discuss with its members the setting of criteria on PASS/FAIL with margin α and alternative testing methods. ● Agenda item 3. Failed tentative Company A: Reported that investigation of the failed EUT resulted in the finding that the internal wiring arrangement deviated from the specification. VCCI asked the member to correct the manual in the manufacturing procedure.

Decisions made and reports given	The case was treated "Passed" as the ailment of the tested unit only. Company B: EMI not confirmed at the time of change of board layout. Judged "failed." Company C: The unit is an option of a game machine. EMI confirmation was overlooked at the time of functional upgrade. Judged "failed." ● Agenda item 4. Information was shared on VNetzA market surveillance which was presented in the VCCI 30th anniversary forum. Their failed rate is higher than that of VCCI. The reason given to explain this result was that they intentionally sampled products imported from outside EU. ● Agenda item 6. Review of activity plan and budget for FY2016 1. Activity plan ✧ Set new VCCI requirement and study test methods for multimedia equipment (MME) ✧ Revisit to market sampling scheme (reconsider the random sampling of members' product in the field) ✧ Study efficient method of sampling test based on utilization of members' periodic in-house testing of volume-produced products. 2. Budget Reduce the number of testing and overseas survey trips to meet the general direction to cut down on the overall budget. ● Agenda item 7: Others Picked USB-HUB registered as Class A product as a purchase based sample in the market. This product is sold combined with Computer Stick meeting Class B. In response to VCCI question to the supplier, why they did not classify it as Class B. Their response was it is released not for home use but for office use. They agreed to clarify the USB-HUB is released for office use only, which VCCI accepted.

● Education Subcommittee

Dates	November 13, December 15, 2015 and January 26, 2016
Agenda items	● 1. Responses to questionnaires on the 42nd seminar for measurement engineers, the 14th course on Antenna calibration and NSA measurement and the 11th course on radiated EMI measurement. ● 2. Plan on the course for the practical application of automatic/manual measurement ● 3. Plan on FY2016 education courses and seminars
Pending business	● Agenda item 2. Continue preparation toward the opening of the course on February 5, 2016
Decisions made and reports given	● Agenda item 1: Responses to the questionnaires on the three courses were "Satisfied." ● Agenda item 3: Plan on seminars in FY2016 Will plan on courses for EMC managers and measurement engineers of member companies to instill the VCCI rules and improve their measurement skills • Develop new courses to prepare measurement engineers for the New VCCI technical requirements • Continue education on the current VCCI requirements ● Education course for FY2015 • Five trainees attended the 11th course on radiated EMI measurement above 1GHz held on November 26 and 27, 2015

● Communication Subcommittee

Dates	November 13 and December 11, 2015 and January 15, 2016
Agenda items	● 1. Plan of participation in exhibitions in FY2016 ● 2. Renewal of the website ● 3. FY2016 operating plan
Pending business	● Agenda item 2. Contents are partially uploaded in the site. Did confirmation on the operability. Asked each subcommittee to do the same. The renewed site will be handed over to VCCI by the end of March 2016.
Decisions made and reports given	● Agenda item 1. To participate in Computex Taipei (June) and CEATEC (October) ● Agenda item 3. Continue Ads in railway stations. Additionally utilize TVs in home appliances area's of Bic Camera for VCCI mark popularization. The period for this advertisement is four weeks from March 1 through March 28, 2016. The ad will also be broadcast via multi-vision as a special contract award. Decided to give away novelties to respondents to VCCI questionnaires in exhibitions.

● Measurement Facility Registration Committee

Date	November 16, 2015
Agenda items	Reviewed the result of deliberations by the Measurement Facility Examination WG and concluded as follows
Decisions made and items completed	Conformity certified (including cases certified with qualification comments after checking of supplementary papers); 17 companies • Radiated EMI measuring facilities; 5 • Mains ports conducted EMI measuring facilities; 8 • Telecommunication ports conducted EMI measuring facilities; 9 • Radiated EMI measurement facilities above 1GHz: 10 Applications returned with comments; none Applications carried over to the next meeting; none
Date	December 14, 2015
Agenda items	Reviewed the result of deliberations by the Measurement Facility Examination WG and concluded as follows
Decisions made and items completed	Conformity certified (including cases certified with qualification comments after extra paper checking); 14 companies • Radiated EMI measuring facilities; 7 • Mains ports conducted EMI measuring facilities; 8 • Telecommunication ports conducted EMI measuring facilities; 2 • Radiated EMI measurement facilities above 1GHz: 9 Applications returned with comments; none Applications carried over to the next meeting; none
Date	January 18, 2016
Agenda items	Reviewed the result of deliberations by the Measurement Facility Examination WG and concluded as follows
Decisions made and items completed	Conformity certified (including cases certified with qualification comments after extra paper checking); 16 companies • Radiated EMI measuring facilities; 11 • Mains ports conducted EMI measuring facilities; 13 • Telecommunication ports conducted EMI measuring facilities; 9 • Radiated EMI measurement facilities above 1GHz: 12 Applications returned with comments; none Applications carried over to the next meeting; none

● LIST OF ABBREVIATIONS used in Committee Activities section

Abbreviation	Full Name
AAN	Asymmetric Artificial Network
AMN	Artificial Mains Network
ANSI	American National Standards Institute
APD	Amplitude Probability Distribution
APLAC	Asia Pacific Laboratory Accreditation Corporation
AQSIQ	General Administration of Quality Supervision , Inspection and Quarantine of the People's Republic of China
BSMI	Bureau of Standards, Metrology and Inspection
CALTS	Calibration Test Site
CB	Certification Body
CB	Competent Body
CCC	China Compulsory Product Certification
CD	Committee Draft
CDN	Coupling Decoupling Network
CDNE	Coupling Decoupling Network for Emission
CDV	Committee Draft for Vote
CEMC	China Certification Center for Electromagnetic Compatibility
CEN	European Committee for Standardization
CENELEC	European Committee for Electro Technical Standardization
CISPR	International Special Committee on Radio Interference
CMAD	Common Mode Absorbing Device
CQC	China Quality Certification Center
CSA	Classical (Conventional) Site Attenuation
CSA	Canadian Standards Association
DAF	Dual Antenna Factor
DC	Document for Comment
DoC	Declaration of Conformity
DOW	Date of Withdrawal
DTI	Department of Trade and Industry
DUT	Device Under Test
ECANB	EC Association of Notified Bodies
Ecma	European association for standardizing information and communication systems
EICTA	European Information, Communications and Consumer Electronics Technology Industry Association
EMCC	Electro Magnetic Compability Conference
EMCAB	Electromagnetic Compatibility Advisory Bulletin
EMF	Electromagnetic Field
EMF	Electromotive Force
ETSI	European Telecommunication Standards Institute
EUANB	European Union Association of Notified Bodies
EUT	Equipment Under Test
FAR	Fully Anechoic Room
FDIS	Final Draft International Standard
GB	guo jia biao zhun（National Standard of China）
ICES	Interference-Causing Equipment Standards
ICNIRP	International Commission on Non-Ionizing Radiation Protection
IS	International Standard
ISM	Industrial Scientific and Medical
ISN	Impedance Stabilization Network
ITE	Information Technology Equipment
LCL	Longitudinal Conversion Loss
MOU	Memorandum of Understanding
MP	Magnetic Probe
MRA	Mutual Recognition Agreement/Arrangement

Abbreviation	Full Name
NCB	National Certification Body
NICT	National Institute of Information and Communications Technology
NIST	National Institute of Standards and Technology
NP	New Proposal
NSA	Normalized Site Attenuation
NWIP	New Work Item Proposal
OFDM	Orthogonal Frequency Division Multiplex
PAS	Publicly Available Specification
PLT	Power Line Telecommunication
R&TTE	Radio & Telecommunications Terminal Equipment
RBW	Resolution Band Width
REF	Reference
RRA	Radio Research Agency
RRT	Round Robin Test
RSM	Reference Site Method
RVC	Reverberation Chamber
SAC	Semi Anechoic Chamber
SN	Signal to Noise ratio
TF	Task Force
TG	Tracking Generator
UPS	Uninterruptible Power Supply
VBW	Video Band Width
VHF-LISN	Very High Frequency-Line Impedance Stabilization Network
VSWR	Voltage Standing Wave Ratio
WP	Working Party

Serial Article – 4

The history of IEC/TC77 – Part 1

By Masamitsu Tokuda

1. Foreword

Foreword (omitted by English translator because it is basically a list of associated reports and documents in Japanese. Those who are interested in them anyway are kindly advised to access the VCCI website in Japanese language and get the Japanese version of VCCI Dayori).

2. The scope of TC77 and its organization (as of January 2016)

Standardization - to prepare standards and technical reports in the field of electromagnetic compatibility (EMC), with particular emphasis on general application and use by product committees (Horizontal function).

The scope covers the following aspects of EMC:

① Immunity and related items, over the whole frequency range: basic and generic standards

② Emission in the low frequency range (f <= 9 kHz, e.g. harmonics and voltage fluctuations):
basic, generic and product (family) standards

③ Emission in the high frequency range (f > 9 kHz, for example powerline transmission):
disturbances not covered by CISPR 10 (1992) in collaboration with CISPR

Product immunity standards are not included. However, at the request of product committees, TC 77 may also prepare such standards under the co-ordination of ACEC.

Horizontal Safety Function: Electromagnetic compatibility in so far as safety aspects are involved

The membership of the current TC77 is 35 P-members and 18 O-members of IEC members

3. Establishment of TC77 and its progression afterward

TC77 was established in June 1973 to study electromagnetic compatibility of electric equipment/facilities and power networks. Its first meeting was held in Bucharest, Romania. Secretariat is Germany and the first chairman was Mr. Autesserre of France. The following five working groups were organized under TC77. WG1: Terminology, WG2: System and Artificial Mains Network impedance, WG3: Mains Port Harmonics (excluding harmonics generated by TV receivers), WG4: Voltage fluctuation, WG5 Mains Port Harmonics caused by TV receivers.

In March 1981 SC77A (Equipment for connection to the public low-voltage supply systems) and SC77B (Industrial and non-public network and equipment connected thereto) were organized under TC77. Directly under TC77 3 WGs were established. They are WG1 (Terminology), WG6 (EMI other than power supply frequencies) and WG8 (power supply frequency related EMI). Power supply harmonics and voltage fluctuations came under SC77A. Figure 1 indicates organization chart of TC77 when organized.

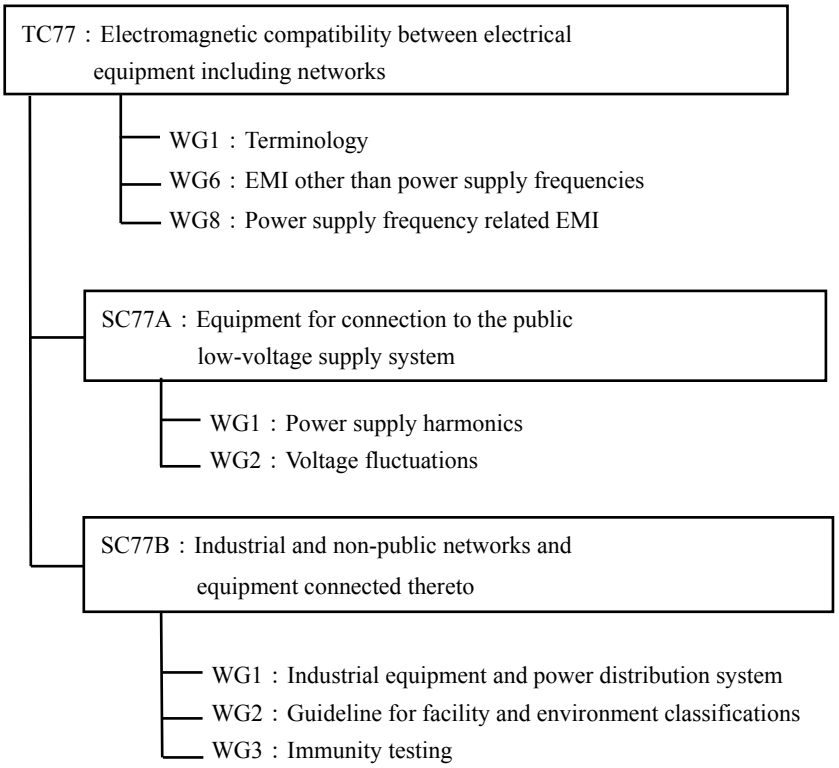


Figure 1 Organization of TC77 in around 1981

References: (omitted as they are Japanese papers and IEC/TC77 website of today but not of around 1981)

Masamitsu Tokuda

1967 Graduated from Electronics Engineering Department of Hokkaido University
1969 Joined NTT, assigned to the Electrical Communications Laboratories
1987 Leader of EMC study group
1996 Professor of Electric Engineering Department , Kyushu Institute of Technology
2001 Professor of Electronic communication department, Musashi Engineering University
2010 Professor emeritus of Tokyo City University, Visiting co-researcher of the department of new region creation science of the graduate school of Tokyo University

Major prize received
1986 Merit award – IEICE (on the design theory and evaluation method for optical fiber cables)
1997 Information communication merit award by MPT (on EMC technology development)
2003 Industrial standard merit award by the minister of METI
2004 IEICE fellow
2007 Promoted to IEEE fellow

Report on the Attendance to the 31st Meeting of R&TTE CA/REDCA

By Steering Committee & International Relations Subcommittee

Date and time: November 3, 2015 9:00 – 17:00hr.
Place: Boscolo Plaza Hotel, Nice France
Participants: Approximately 60
Chair: Mr. Nick Hooper
Secretary: Mr. Jan Coenraad
VCCI attendants: Mr. Mine, Chair, Steering Committee (NEC Platforms)
Mr. Uchida, Chair, International Relations Subcommittee (Panasonic)
Mr. Oda, Senior Managing Director, VCCI
Mr. Tsurumi, Manager of General Affairs, VCCI
REDCA member organizations (as of November 3, 2015): 163 groups
Regular members: 138 groups (of which 11 groups are of Japan)
Members newly admitted this time: 15 groups (no Japanese groups)
Observers: 10 groups (of which 2 were of Japan – MIC related groups)

1. Introductory note

Previous R&TTECA (Compliance Association) was changed to R&TTE CA/REDCA (The Radio Equipment Directive Compliance Association) as R&TTE Directives was changed to RE Directives. R&TTE CA/REDCA is an organization comprised of certification bodies and manufactures (mainly conformity certification bodies) of Europe and other countries interested in the conformity of radio equipment with the EU Directives. They share information on conformance schemes, technology for radio communications and measurement techniques. For this purpose they regularly meet two times a year. This time the focus of discussion was status update on readiness of each country regarding new Directives, harmonization with local rules and development of guidelines to deal with the Directives.

The purpose or our participation in the meeting was to update VCCI member companies on the move in Europe while deepening our relationship with European EMC related organizations and engineers.

2. Proceedings

(1) Following the greeting of the chair the agenda was confirmed, action items from the previous meeting were reviewed and discussions proceeded theme by theme.

(2) Then followed was the report on R&TTECA/REDCA operations, admission of new members and report by secretariat. Report on accounting of the organization was made and approved.

3. Outline of the meeting

(1) Direction on the RE Directives

Harmonized standard of 2014/53/EU will be released by March 15, 2016 at latest. Notified Bodies will be reorganized under R&TTA Directives and notification will be done. It is expected that Q&A exchanged in the workshop held on November 13, 2014 will be circulated soon. Also the guideline prepared in the TCAM committee and working groups under it will be ready to be released in June next year.

(2) Guideline on the RE Directives

Guideline and quick guide book on the RE Directives are under preparation. It was noted that the guideline is not to be used alone. It is to be used together with the Blue Guide. The Blue guide (version 1.1.) was already released in July 2015. Also noted was criteria on the application of the old and new directives (EMC/LV or R&TTE/RE) depends on the type of product.

RE Directives guideline to be released by EU Committee is under preparation. This guideline will not duplicate with the content of Blue Guide. Timing of release of the first edition is under deliberation. It is likely that the release of TCAM draft will be in February – March 2016 time frame.

Enforcement of the RE Directives will start from June 13, 2016. Allowed transient time is one year until June 12, 2017. Three conformity verification schemes will be available. They are Module A (standard rule), Module H (for NB use) and new Module B+C (NB use). It is not possible to apply the RE Directives before June 12, 2016, which means that NB report and opinion paper on the certification cannot be issued.

About products newly subjected to RE Directives (EMC/LV Directives) and products to be exempted from application of the revised RE directives whose transient time is none or too short the following rules will be applied.

- Among products which are newly subjected to the RE Directives and will be subjected to the RE Directives after being subjected to new EMC/LV directives for 2 months shall not refer to the new and old Directives in the Declaration of Conformity.
- Products without transient time may be allowed to use the old Declaration of Conformity until the end of 2016 (still under discussion)

(3) ADCO (Administrative Co-operation Working Group) R&TTE report

The 7th market monitor campaign conducted last year focused on remote control aircraft (79 samples of which 19 were toys). Sampling was done from all price ranges and failure rate was summarized by the price range. The result was that failure rate exceeded 80%. It was even 100% on those in a certain price range. Remote control aircrafts of today utilize video signal simultaneously on top of operation control signals. If these signals do not satisfy basic requirements specified by the Radio Directives there is a possibility that those aircrafts may greatly impact the radio communications. Therefore the 2016 campaign will focus on radio controlled toys. The results of this study will be reported in ICSMS (Information Exchange System of Market Surveillance).

It was reported that other action items will include the following.

- Development of key indicators for market surveillance
- Cooperation for cross-border market monitoring
- Safeguard procedure meeting NLF
- Market surveillance scheme on E commerce
- Review of Blue-guide
- Study of worst scenario of body SAR
- March 2016 ADCO R&TTE meeting

(4) Development of database for Notified Body information exchange

Annex III and IV of Article 36, RE Directives, describe the rules on the responsibility of information provision to NB as follows.

Article 36-2:

NB must provide other NBs engaged in similar conformity assessment activities on radio equipment with information on negative problems regarding the results of conformity validation and, if asked, positive information as well.

Also the article 32-2 stipulates the following.

In the case of notification restricted, temporarily disabled or cancelled or NB's withdrawal of its activities, the notifying member country shall take appropriate actions so that all reports of the NB in default are accessible by the other NB taking over or made available to market surveillance authorities on their demand. To meet the above requirements the following database is being proposed. It is to facilitate the sharing of NB's evaluation data registered on the same product category. It is proposed that such database should be searchable with ① NB number, ② contact point, ③ manufacturer and ④ product category

(5) Problem of EN 50566

EU member presented a draft on a proposal to enhance the EU Decision on the problem of EN 50556-2013 on human body exposure in response to the French claim that the standard does not fully answer R&TTE Directives.

(6) The secretariat responded to questions on the following matters

① Release to the market, ② Street address of the manufacturer, ③ EU type approval, and ④ brand labelling

(7) Collaboration with other organizations

① Introduction of activities of ECC (Electric Communication Committee)

- Concept of "flexible harmonization" on radio frequency as opposed to broadband PPDR

② Report on TCB council (held from October 27 through 29)

- SAR IEC62209-3
- Inductive Wireless Power (Charging)
- Industry Canada
  FCC KDBs list accepted by IC
  RF exposure (limit : RSS-102 issue 5)
- Test lab and new FCC Rules
  Proposed revision of FCC rules (associated with 974614: Accredited Test Firm Rules)

(8) Next meeting:
Mid May 2016 in UK

Remarks

Deliberation contents are for the eyes of R&TTE CA/REDCA members only. They discussed implementation issues of RE directives and EMC directives to be effectuated next year. Directives implementation will be complimented by Blue guide (revised in July 2015) and individual guide for each directive. Expected release of individual guide will be February – March 2016 (draft). As to harmonized standards with the RE Directives they will be released March 15, 2016 at latest. However, it is said that preparations to ensure proper implementation is not necessarily going smoothly. It was a common view in the same meeting last year that home appliances with wireless feature will become subjected to RE Directives. This year it has turned out that it is now a reality. So directives to conform to will only be RE Directives from now on.

This year we were able to deepen intimate relationship with people involved with European R&TTE CA/REDCA and related officials. I renewed my take that the participation in this kind of meeting will help us serve VCCI members better.

A scene of the conference (1)

A scene of the conference (2)

Left: Secretary, Mr. Jan Coenraads
Right: Mr. Nick Hooper

Report on 2016 Meeting to Review the status on New VCCI Rules Development combined with Technical Symposium

Steering Committee & Technical Subcommittee

This meeting was to share information about the status on the development of the new VCCI rules based on CISPR 32 (part 1) and other technical studies to underpin rules making (part 2).

Date and time: January 15, 2016 13:00 – 17:00hr.
Place: B2F Large hall of Kikai Shinko Kaikan
Number of attendees: Approximately 140

Program:

Time		Topics	Speakers
13:10 13:15		Opening	Akira Oda Senior Managing Director, VCCI
13:15 13:30	Rules making update	Proposed structure of new Rules for Voluntary Control Measures based on MIC validated CISPR 32 **(Steering Committee)**	Shinji Mine, NEC Platforms Chair, VCCI Steering Committee
13:30 14:10		Structure of the Draft Technical Requirements based on CISPR 32 **(Technical Subcommittee)**	Ayataro Hoshi, Hitachi Information & Telecommunication Engineering Ltd. Chair, VCCI Technical Subcommittee
14:10 14:30		Qs and As	
14:30 14:35	Technical Symposium	Opening message for Technical Symposium **(Technical Subcommittee)**	Ayataro Hoshi, Hitachi Information & Telecommunication Engineering Ltd. Chair, VCCI Technical Subcommittee
14:35 14:50		Status on deliberation of CISPR 32 and MIC drafting - CISPR 16, 22/24 and 32/35 - CISPR SC-A, SC-I Stresa meeting summary **(CISPR 32WG)**	Motoharu Mizutani, Toshiba Convener, CISPR Project WG, VCCI Technical Subcommittee
14:50 15:05		- Result of required measurement in FAR - Site validation of FAR for 30 – 1000MHz - Effects of arrangement of mains cable observed with a real equipment **(Radiated EMI measurement WG)**	Naoki Hashimoto, TUVRheinland Japan Radiated EMI measurement WG, Technical Subcommittee
15:05 15:25		Break	
15:25 15:40		"Report on verification of conducted EMI from PoE Communication port" **(Conducted EMI measurement WG)**	Koichi Tsunoda NTT Advanced Technology Corporation Conducted EMI measurement WG, Technical Subcommittee
15:40 15:55		"Study of validity of NSA valuation with small Bicon" **(Antenna Calibration WG)**	Hironari Tanaka OHTAMA Calibration Service, Co.,Ltd. Antenna Calibration WG, Technical Subcommittee
15:55 16:10		"Status on VHF-LISN standardization in CISPR" **(VHF-LISN WG)**	Shinich Okuyama NEC Platforms Co. Ltd VHF-LISN WG, Technical Subcommittee
16:10 16:50		Commissioned study - "Study of measurement of disturbance by computer simulations"	Nobuo Kuwabara Professor, Electric Electronics Research, Graduate School – Engineering Kyushu Institute of Technology
16:50 17:00		Q & A all through the symposium	All speakers

Mr. Oda, Senior Managing Director of VCCI, started out the symposium with the following remark. He stressed the importance of the reliability of VCCI mark by referring to a recent incident caused by compliance neglected in the society at large. He also reviewed relations of VCCI with its stakeholders, significance of this symposium and new program to be started by the education subcommittee.

Next, Mr. Mine, Chair of the Steering Committee, talked about the concept of new Rules for Voluntary Control Measures to be effectuated in FY2016. Following that subcommittee chairs presented fruits of their studies in 2015 started out with Mr. Hoshi of the Technical Subcommittee on the draft technical requirements to be effectuated in 2016.

Q & A that followed was as follows

Q1: For the measurement of optical fiber port will I need the facility registration of clamps?

A1: It is necessary to register ISN and clamps per each port. We will notify you as soon as detailed requirements for facility registration are determined.

Q2: At the time of effectuation of new technical requirements based on CISPR 32, will you ask us to redo conformity verification measurement on already registered products?

A2: You will not need to do so because VCCI conformity verification filing is needed only for newly registered product.

Q3: You said that the release of the new technical requirements will be postponed to October or later. Do you intend to implement the revision of the current V-2/2015.04? If yes, when?

A3: Revision of the current rules will be implemented synchronized with the release of new technical requirements based on CISPR 32.

Q4: It is required to describe uncertainty of measuring instruments in the test report, but this rule is not followed in reality. Under the new rules based on CISPR 32 will this requirement enforced?

A4: Yes, it will be enforced.

Next, Technical Symposium was opened with the introductory presentation by Mr. Hoshi, Chairman of the Technical Subcommittee. He covered the track record of the subcommittee including activities of working groups.

As the last session, Professor Kuwabara of the Kyushu Institute of Technology presented “Study of measurement of disturbance by computer simulations.” He talked about the influence of EUT’s mains port terminating condition to radiated EMI and Evaluation of correlation values of SAC and FAR.

Questions and answer session followed this presentation.

There was a comment made on the project of VHF-LISN as follows.

In measuring disturbance a problem of underestimation was pointed out if CMAD is used. To overcome this problem Japan proposed the use of VHF-LISN devised by VCCI. Evaluation of the effects of VHF-LISN was better than alternatives including CMAD. Early standardization of VHF-LISN is expected now.

All materials shown today will be uploaded to the VCCI Website.

Symposium hall

Greeting by Mr. Oda

Briefing by Mr. Mine

Presentation by Mr. Hoshi

Presentation by Mr. Mizutami

Presentation by Mr. Hashimoto

Presentation by Mr. Tsunoda

Presentation by Mr. Tanaka

Presentation by Mr. Okuyama

Presentation by Prof. Kuwabara

All speakers

Opening by Mr. Hoshi of the sociable

Report on VCCI Seminar

By Steering Committee

Under the joint auspices of
the Saitama Industrial Technology Center

1. The gist of the seminar

Date/Time: December 11, 2015 13:30 – 17:00hr.

Venue: Saitama Industrial Technology Center

No. of Attendees: 16 persons

VCCI speakers**:** Mr. Oda, Senior Managing Director
Mr. Uchida, Chairman of International Relations Subcommittee (Panasonic)
Mr. Hoshi, Chairman of Technical Subcommittee
(Hitachi Information & Telecommunication Engineering, Ltd.)
Mr. Hirata, Chairman of Education Subcommittee (Hitachi)
Mr. Yamaguchi, Technical Subcommittee and Education Subcommittee
(Electromagnetic Education)

2. Program

Time	Subjects	Lecturers
13:30-13:55	(1) Activities of VCCI and regulations in the future • Activities of VCCI and their features • EMI regulations in the future (Den-an law, multimedia standards)	Mr. Oda
13:55-14:25	(2) Regulations in the world • Introduction of world standards on EMI	Mr. Uchida
14:25-15:10	(3) Points in EMI measurement to meet VCCI requirements and future challenges • Practical hints for actual measurement • VCCI's efforts to align with MIC validated CISPR 32	Mr. Hoshi
15:20-16:00	(4) Training on EMI and points in creating test reports • Summary of VCCI training endeavor - Conformity verification reporting - Guideline for test report creation	Mr. Hirata
16:00-16:50	(5) A simple way to determine bad EMI spots	Mr. Yamaguchi
16:50-17:00	Q & A	All speakers

3. Remarks

The Saitama Industrial Technology Center we had a seminar this time for is a public testing and research machinery for the prefectural industries with expertise to support R&D, technical training, commissioned analysis and tools/machines sharing for the local community. Responses from participants was generally positive in saying they learned a lot about regulations against disturbances and how to guard affected equipment from such disturbance.

VCCI initiated this kind of seminar circuit in 2006 to familiarize local industry personnel with EMC. It is our intention to continue this program for the future.

Lastly we would like to thank people of the Saitama Industry Technology Center for their support and cooperation.

Report on VCCI International Forum 2015 to commemorate the 30th Anniversary of VCCI

By International Relations Subcommittee

On December 19, 2015 VCCI attained its 30th anniversary. In order to commemorate this day we held the subject forum in the United Nations University in Jingu-mae, Shibuya-ku. In this special meeting we had honor of commemorative keynote speeches and presentations by related officials of Japanese government and direction in regulatory situation in the world by invited speakers from overseas. Day's program was as follows

VCCI 30th Anniversary International Forum Program

Time	Minutes	Item
10:30-10:40	**10 min**	**Opening remarks** **Mr. Keiichi Kawakami, President, VCCI Council**
10:40-11:10	**30 min**	***Key note speech-1*** **"Present status of a use of radio waves and it's further study items"- Wireless Power Transfer technology -** **Mr. Masahiko Sawabe, Deputy Director,** **Electromagnetic Environment Division,** **Radio Department, Telecommunication Bureau,** **Ministry of Internal Affairs and Communication**
11:10-11:40	**30 min**	***Key note speech-2*** **"Governmental Efforts on IoT Society"** **Ms. Yoshiko Tsuwaki, Deputy Director,** **Information and Communication Electronics Division,** **Commerce and Information Policy Bureau,** **Ministry of Economy, Trade and Industry**
13:00-13:15	**15 min**	**"VCCI Update"** **Mr. Akira Oda, Senior Managing Director, VCCI Council**
13:15-14:05	**50 min**	**"FCC Equipment Authorization. Procedure and Updates"** **Mr. Mike Violette, Director, American Certification Body**
14:05-14:55	**50 min**	**"Latest EMC information and Market Surveillance from EU"** **Mr. Stephan Winkelmann** **BNetzA**
15:10-16:00	**50 min**	**"Outline of CISPR 32 Ed.2.0 and items for further study,"** **Fujio Amemiya, Dr. Eng. The Chief of Working Group I, Subcommittee on Electromagnetic Environment for Radio-Wave Utilization**
16:00-16:50	**50 min**	**Q&A moderated by Mr. Yukio Uchida (Chairman of VCCI IRSC)**
16:50-17:00	**10 min**	**Appreciation to the guests and wrap up**

Mr. Masahiko Watanabe

Ms. Atsuko Tsuwaki

Mr. Keiichi Kawakami, VCCI President

Mr. Oda, VCCI Senior Managing Director

In the session on regulatory situation in each country/region speakers fully used given times for forum participants to return home with useful information. We also kept practice of having Q & A sessions like in usual VCCI International Forum. The Q & A session was arranged in such a way that both on-the-spot questions and pre-corrected questions were mixed together.

The number of forum participants reached approximately 170, which made the forum very lively.

Qs & As recorded here are provided only for reference by VCCI members. Judgement as to their usability/authenticity is up to members.

■ To Mr. Mike Violette on the certification procedure and direction on regulatory reform in the US

Q1: Up to when the test at “Facility filing laboratory” will be valid?

A1: There are the following two limits.

(1) FCC equipment certification testing cannot be performed at the labs listed in FCC Rule 2.948 on and after July 16, 2016

(2) DoC (Declaration of Conformity) based on test data issued by labs listed in FCC rule 2.948 cannot be issued on and after October 16, 2016

Q2: I like to know in detail the difference in certification method for Class A and Class B equipment.

A2: Of Class A and Class B equipment non-computing equipment used in home are subject to “Verification.” Computing equipment and their peripheral equipment of Class B equipment are subject to DoC.

Q3: ET Docket 15-170 says that if DoC is replaced with sDOoC the certification at measurement site is exempted. Is this understanding correct? If it is correct then how do you insure the authenticity of measurement data to be used for sDoC?

A3: FCC is investigating the problem, as they are also concerned with the authenticity of sDoC measurement data.

Q4: It is said that US is investigating the possibility of accepting test data produced by accredited labs of non-MRA countries with the US (China, India, Brazil etc.). What is the current situation?

A4: For the accreditation of transmitters FCC will ask for test data of accredited labs of the country with which the US signed MRA. There are talks going on with China on this issue.

Q5: You explained the text of declaration for DoC. Is there template like the one used for DoC in Europe?

A5: As to DoC what is prescribed in FCC rules must be followed. The template is included in the FCC rules. You can use it. Page 25 of presentation material describes the matter.

Q6: There was an incident reported in Europe that people received an electric shock in using USB charge. Do you have a system in FCC and the like to check or monitor imported products to avoid that kind of incidents?

A6: FCC is asking TCB to allocate resources to market monitoring, but the reality is action is not taken without complaints coming up from the market. Before that FCC cannot respond to that kind of request squarely because the primary responsibility of FCC is to guard frequency spectrums. Maybe other department in the US government such as the one on the safety of home appliances and recall of products may take the responsibility.

■ Q & A session with Mr. Stephan Winkelmann on the new EMC, RE Directives and market surveillance.

Q7: When do you expect EN 60601-1-2:2014 on EMC standards will be published in the list of harmonized standards?

A7: I cannot answer your question because I do not belong to Standards department.

Mr. Mike Violette

Mr. Stephan Winkelmann

Q8: Suppose a product passed certification test at a FAR was judged NG in purchase based market sampling test by BNetaA (tested in SAC of OATS) what action will you take as BNetaA?

A8: First of all we do hearing from the manufacture. If they say they applied other testing method in the group of harmonized standards we will evaluate the difference and we will apply safeguard rules to the case if necessary.

Q9: I like to know EU action on CISPR 32 and its timing.

A9: Please refer to the presentation by Dr. Amemiya.

Q10: You said you had performed 1,012 cases of conformity verification tests in 2014. Can you tell us about the contents of the tests?

A10: We determined grouping of products as listed below. This grouping is subject to revision every year by referring to the results of previous year. If we found that failure slanted towards specific product category, then we will pay special attention to that product category.

- R&TTE: wireless equipment, communication terminal equipment and combination of the both.
- EMC: home use equipment, powered tools, lighting equipment, ITE (if not included in R&TTE), consumer electronics, ISM equipment and others

Talking about the number of samples in one category of product type, we sample 5 units from each type in principle. For expensive products, large size products or special purpose products we may just pick one sample.

Q11: Please tell us about judgement criteria for EMC testing conformity.

A11: We market survey authority evaluate the EU declaration of conformity by manufactures. Usually manufacturers use the harmonized standards for their conformity assessment, so we take this fact into consideration. For more details please refer to Q9/A9 in the session of Mr. Amemiya.

Q12: I like to know the status on the development of harmonized standard on receivers based on the RE Directives.

A12: The current status is not known.

Q13: I like to know points in execution of market surveillance under the new Directives.

A13: Each member country must nationalize the EU Directives for their nation to stay in EU. With the newly adopted requirements for market surveillance the process of the determination of “non-conformity” will be harmonized.

Q14: Due to only small time margin will be left for switching to the new EMC Directives/New LV Directives it is expected that difficulties will be encountered in actual handling of products. Under such circumstances

with what policy actual market surveillance will be performed?

A14: Although the time margin is small we do not see it as a problem because there is no change in mandatory requirements. However, there might be some changes in administrative requirements. If DoC on products is requested by the authorities of member countries the current DoC will be accepted until April 19, 2016 on the condition that it is replaced with the new DoC after April 20.

Q15: Will there be gaps on strictness in market surveillance between member countries?

A15: It is possible that different priority is set among member nations. Take BNetzA for instance. It has the right to ask license holders to protect frequency because BNetzA is responsible for the allocation of the frequency, awarding a license for use and collection of the fees. For this reason BNetzA weighs the mandatory requirements met more than other member countries. European Commission is studying the method for enforcement of mandatory requirement. Procedures for following up non-conformity cases may be changed.

Q16: It is said that the release date for the new EMC Directives is April 2016 and that for the RE Directives is June 2016. I would like to know concrete contents covered in those directives together with their differences from the Guideline for the old directives.

A16: It is difficult to answer your question in detail. While the composition of EMC guide itself will not be changed its scope will be modified. In the case of the EMC guide it will reflect the definition of the Blue guide and the definitions of DECISION No. 768/2008/EC and the flow chart will be modified little bit.

Q17: Each member country is bound to legalize EMCD and LVD by April 20, 2016. Do you expect all member countries to fulfill that duty by this date?

A17: I do not know, but public hearing on implementation of the EMC directives has already started in Germany, so the adaptation of the new EMC law in that country will be completed by the due date.

Q18: Please tell us about concrete penalty imposed to EU signatories other than Germany.

A18: I don’t know in detail.

Q19: This question is about indication of street address on the equipment required in the new directives. Is there any condition on the size and shape of equipment for the address indication?

A19: Contact address must be indicated onto the products because package and operation manual etc. may be lost so they are no good for a required indication base. If there is enough space on the surface of the product the address indication is required directly on the equipment. If the product is too small to secure address indication space, then operation manual or package can be an alternative place for indication.

Q20: The new directives say risk assessment must be prepared. Do you have any concrete example?

A20: There is no clear indication in the Directives as to what risk assessment must be prepared. In developing a new product you should consider what directives will be applied to it, understand its implication and study harmonized standard. Either that or you should ask a notified body to do the testing. In addition it is recommended that you as a manufacturer do risk assessment in terms of serviceability, deterioration by age, misuse of the product etc. Also it is wise to assess if conformity is satisfied in any situation and technical solution is available.

Q21: In what principle the target product is determined for market sampling test?

A21: Into EU market many thousand cheap products of manufactures without any knowledge about Directives are flowing in. 80% of them is from China. Test failure rate of their products is high. We assess many thousand products each year so we have general as to the information what countries and regions and product groups should be paid special attention to. Our recent focus is on Bluetooth products, drones, headsets etc. because their radio frequency conformance with the EU market is suspicious.

■ Questions and answers on the presentation by Dr. Fujio Amemiya on "Release of CISPR 32 Ed.2.0 and remaining problems"

Q22: In page 13 of your presentation material you wrote that a display of copying machine is with the highest complexity that EUT can produce. By this statement do you mean that you are required to create this situation by means of change of firmware if it is beyond the specification?

A22: I do not mean to that extent. I think it is up to manufactures to determine the degree of the complexity at the time of product shipment.

Dr. Fujio Amemiya

Questions and Answer session

The scene of the forum

Report on VCCI 30th Anniversary Reception

VCCI Secretariat

Date/Time : November 20, 2015 18:00 – 20:00hr.
Venue : Hananoma, Hotel Grand Ark

Moderator: Mr. Tsurumi, Secretariat general, VCCI

Opening : Keiichi Kawakami, VCCI President

Complimentary address by:

Mr. Masahiko Sawabe, Electromagnetic Environment Division, Ministry of Internal Affairs and Communications

Mr. Ohki Masafumi, Chief of Information home appliances strategy office, Ministry of Economy, Trade and Industry

Presentation of Testimonial of gratitude by VCCI President to -

- R&TTE CA
(Radio and Telecommunication Terminal Equipment Compliance Association)
- Chinese Taipei BSMI
(Bureau of Standards, Metrology and Inspection MINISTRY OF ECONOMIC AFFAIRS)

Breaking open a ceremonial sake barrel:

Mr. Ohki (METI), Mr.Jan Coenraads (R&TTE CA)

Mr. Chan (Taipei Economic and Cultural Representative Office)

Mr. Shoda (Chair of VCCI Council), Mr. Kawakami (VCCI President), and

Mr. Oda (VCCI Senior Manageing Director)

Proposing a toast:

Mr. Shoda (Chair of VCCI Council)

Familier talk

Speeches:

Mr.Jan Coenraads (R&TTE CA)

Mr.Mike Violette (American Certification Body)

Mr. Stephan Winkelmann (BNetzA)

Mr. Fujio Amemiya (Radio wave utilization environment committee)

Mr. Masamitsu Tokuda (Professor emeritus, Tokyo City University)

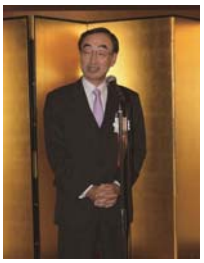
Familier talk

Greeting before Closing: Akira Oda, VCCI Senior Managing Director

Closing: Mr. Tsurumi, Secretariat general, VCCI

The number of participants: Apoproximately 150

In the opening speech Mr. Kawakami said the following in front of approximately 150 party participants.


Mr. Kawakami

"VCCI started with membership of 100+ companies is now crowded with 1,200 companies in the past 30 years. VCCI's roles will become more and more important in the society of tomorrow where new technologies such as IoT and CPS are utilized as bridges between the real world and ciber world. So we commit that we will keep VCCI in the front of such environment."

Guest of honor Mr. Masahiko Sawabe of MIC said the following in his speech.

"The release of CISPR 32 based Japanese standard is expected soon from the Information and Communications Council. We appreciate the fact that it is promoted by the cooperation of VCCI. It is our commitment to maintain good radio wave environment from now on too as before. I understand that VCCI will take the role of the secretariat of the CISPR subcommittee under the electric appliances survey committee to be kicked off this year. This fact implies that the coverage of VCCI will be extended from ITE to electric appliances in general. We are looking forward to the world where the utilization of radio wave will be enhanced and enlarged in this endeavor."

Next, Mr. Ohki Masafumi, Chief of Information home appliances strategy office, METI made a speech as follows in essence.

"We very much appreciate the fact that VCCI has been tackling with the problem of disturbances emitted by ITE all the way back from 30 years ago. This is the reason why we can enjoy the use of various services made available today without being disturbed by electromagnetic noises. From this year Japanese government intends to map out growth strategy in which IoT, Big Data and AI among others will play important roles to such a degree that it will serve the new industrial revolution. We expect the self control scheme of VCCI will keep playing an important role in such an environment."

Mr. Sawabe of Ministry of Internal Affairs and Communications

Mr. Ohki, Ministry of Economy, Trade and Industry

Next, special appreciation awards were presented to the two organizations overseas which have been highly cooperative with VCCI. One went to R&TTE CA (via Mr. Jan Coenraads) and the other to Taiwan BSMI (via Mr. Kohjun Chan).

R＆TTE CA　Mr. Jan Coenraads

Taiwan BSMI Mr. Kohjun Chan

Following breaking open a ceremonial sake barrel

Mr. Eisuke Shoda, VCCI Council chairman, made a speech summarized as follows before proposed toast. “From now on information society will accelerate its dependency on the utilization of radio waves. There is no such country in the world in which suppliers of ITE get together and try to keep radio environment clean. I am confident that this scheme of us will greatly contribute to the advancement of the society.”

Lastly M. Oda, Senior Managing Director of VCCI, made a short closing remark thanking all attendees for their continued support to VCCI.

Status on FY2015 Market Sampling Test Operations

Market Sampling Test Subcommittee

As of January 31, 2016

Planned number of market sampling tests	Loan-based	50	110
	Purchase-based	60	

Sampling test Grand total	Selected	Cancelled (unrealized shipment, etc.)	Owner's consent pending	Testable samples	Test completed	Judgment awaited	Judgment			
							Passed	Failed - tentative		
								Finally passed	Finally failed	Pending
Grand total	115	3	2	110	108	10	93	1	2	2
Previous month grand total	113	3	9	101	79	16	58	1	1	3
Loan-based testing total	53	3	1	49	48	4	42	0	1	1
1st Quarter	14	2	0	12	12	0	12	0	0	0
2nd Quarter	24	0	0	24	24	1	21	0	1	1
3rd Quarter	14	1	1	12	11	2	9	0	0	0
4th Quarter	1	0	0	1	1	1	0	0	0	0
Purchase-based testing total	62	0	1	61	60	6	51	1	1	1
1st Quarter	20	0	1	19	19	0	17	1	0	1
2nd Quarter	10	0	0	10	10	0	9	0	1	0
3rd Quarter	20	0	0	20	20	1	19	0	0	0
4th Quarter	12	0	0	12	11	5	6	0	0	0

Final Result

Passed	Failed	Pending
94	2	2

* One sample in Loan-based testing was realloted to document inspection.

Document inspection	Selected	Cancelled (withdrawal, etc.)	Owner's consent pending	Inspectable samples	Inspection Completed	Judgment awaited	Judgment	
							Cleared	Problems identified
	42	1	1	40	36	0	33	3

Failed Market Sampling Test - FY2015

As of January, 2016

Company name	Delta Electronics, Inc.
Model/Type	Remote controller　PPM R2J-0xx (no shipment in Japan)
Measurement results	Radiated EMI measurement Vertical 10.4dB excess at 72.0MHz Horizontal 5.3dB excess at 995.9MHz
Cause, measures (to be) taken and actions for the prevention of the recurrence	Cause: The first conformity verification test failed, but problems corrected on the spot and passed. But skipped reconfirmation after additional layout changes of PWB Measures (to be) taken on the stock : The product is in the phase of development, so no stock and no delivery yet in the field. Actions for the prevention of the recurrence: Changed PWB layout and added core on AC/DC adapter. Will make sure the effects of engineering changes works.

Company name	MadCatz, Inc.
Model/Type	89480/Mad Catz Arcade FightStick TE2
Measurement results	Radiated EMI measurement Horizontal 9.2dB excess at 210.0MHz Vertical 8.1dB excess at 210.0MHz
Cause, measures (to be) taken and actions for the prevention of the recurrence	Cause: Test passed in 2014 with game machine console but the test was not sufficient with the console of the new game machine (conformity testing omitted) Measures (to be) taken on the stock : Stopped shipment of TE2 to Japan. All to be replaced with New TE2 Measures (to be) taken on shipped products: Inform in the Website. Repair the product if asked by the users Actions for the prevention of the recurrence: Revisit the EMC design process to improve the conformity. Pay special attention to cables. Make internal test rigorous.

Report from the Secretariat

● List of Members (November 2015 ～ January 2016)

New Members

Membership	Member No.	Company Name	Country
Regular	3709	ADVANCED-CONNECTEK INC. (ACON)	CHINESE TAIPEI
Regular	3708	BARUN ELECTRONICS	KOREA
Regular	3688	Bizright technology Inc	JAPAN
Regular	3693	Darfon Electronics Corp.	CHINESE TAIPEI
Regular	3704	Data Ltd Inc	CHINESE TAIPEI
Regular	3696	FUJITSU SOCIAL LIFE SYSTEM LIMITED	JAPAN
Regular	3691	Guangdong Hybroad Vision Electronics Technology Company Ltd	CHINA
Regular	3694	Kimura Electric Co., Ltd.	JAPAN
Regular	3706	LIXIL Housing Exterior Division	JAPAN
Regular	3690	LVHM Watch & Jewelry Japan K.K.	JAPAN
Supporting	3702	Nebraska Center for Excellence in Electronics (NCEE Labs)	USA
Regular	3701	Net One Systems Co., Ltd.	JAPAN
Regular	3703	Nextbit Systems Inc.	USA
Regular	3700	OCZ Storage Solutions	USA
Regular	3692	RION CO., LTD.	JAPAN
Regular	3695	Trenton Systems	USA
Regular	3697	TYCO ELECTRONICS CORPORATION	USA
Regular	3698	Virtium LLC	USA
Regular	3699	Waterfall Security Solutions LTD	ISRAEL

Change of Company Name

Membership	Member No.	Company Name	Country	Former Company Name
Regular	3443	Global Scanning UK Ltd.	CHINA	Colortrac Ltd
Regular	2504	Hitachi Chemical Co., Ltd.	JAPAN	Shin-kobe Electric Machinery Co., Ltd.

Withdrawal Members

Membership	Member No.	Company Name	Country
Regular	1795	Athena Smartcard Solutions, INC.	JAPAN
Regular	3319	EHT Inc.	JAPAN
Regular	3572	Hitachi High-Tech Fine Systems Corporation	JAPAN
Regular	3348	NISSIN SYSTEMS Co., LTD.	JAPAN
Regular	3055	Samsung SDS CO., LTD.	KOREA
Regular	3624	TOHOKU TKR corporation	JAPAN
Regular	3563	Tripwire Inc.	USA

Request : In case of any change in your company name, please kindly advise VCCI.
Use the “Notice of Change” at VCCI Website.

● VCCI Events Calendar

FY2015

April • VCCI Basic Course for Measurement Engineers	**May** • VCCI Course for Measurement Engineers • Exhibition at TECHNO FRONTIER	**June** • VCCI Cource Telecommunication Ports Conducted EMI Measurement • VCCI Business Reporting Meeting • Release VCCI Dayori No.117
July • VCCI Course of Rules for Voluntary Control Measures (tentative) • VCCI Course on Radiated EMI Measurement Above 1GHz • Release Annual Report	**August**	**September** • VCCI Basic Course for Measurement Engineers • VCCI Course for Measurement Engineers • Release VCCI Dayori No.118
October • VCCI Course for Measurement Engineers • VCCI Cource on Antenna Calibration and NSA Measurement	**November** • VCCI Course on Radiated EMI Measurement Above 1GHz	**December** • VCCI Course of Rules for Voluntary Control Measures (tentative) • Release VCCI Dayori No.119
January • VCCI Rules Explanatory Meeting Combined with Technical Symposium	**February**	**March** • Release VCCI Dayori No.120

FY2016

April • VCCI Basic Course for Measurement Engineers • Exhibition at TECHNO FRONTIER	**May** • VCCI Course for Measurement Engineers • Computex Taipei	**June** • VCCI Course on Radiated EMI Measurement Above 1GHz • Release VCCI Dayori No.121
July • VCCI Business Reporting Meeting • VCCI Course of Rules for Voluntary Control Measures (tentative) • Release Annual Report	**August**	**September** • VCCI Basic Course for Measurement Engineers • Release VCCI Dayori No.122
October • VCCI Course for Measurement Engineers • Exhibition at CEATEC JAPAN	**November** • VCCI Course on Radiated EMI Measurement Above 1GHz • VCCI Cource on Antenna Calibration and NSA Measurement	**December** • VCCI Seminar on Automated and Manual Measurement • Release VCCI Dayori No.123
January • VCCI Technical Symposium	**February**	**March** • VCCI International Forum • Release VCCI Dayori No.124

● State of Conformance Report Submitted

November 2015 ～ January 2016

Classification \ Corresponding Month / Class		November 2015			December 2015			January 2016		
		A	B	Total	A	B	Total	A	B	Total
Mainframe Computer (Super Computer, Server, etc)		29	2	31	25	1	26	15	4	19
Personal Computer	Desk-top type, etc.	1	14	15	4	19	23	2	12	14
	Note type, etc.	0	38	38	1	29	30	0	24	24
	Palm top type, etc.	0	3	3	0	0	0	0	1	1
Office Computer, Mini-Computer, Workstation, etc.		8	2	10	4	3	7	2	4	6
Peripherals/Terminals Equipment	Auxiliary Memory (Storage Device)	11	29	40	11	26	37	2	22	24
	Printer	3	15	18	1	4	5	6	16	22
	Display (LCD, CRT Display, etc.)	11	37	48	6	56	62	8	74	82
	Input/Output Device (excluding Auxiliary Memory, Printer, and Display)	6	20	26	6	28	34	6	23	29
	General Purpose Terminal (Display, Typewriter Terminal, etc.)	0	3	3	0	2	2	3	0	3
	Exclusive Terminal (POS, Terminal for Medical, Financial, and Insurance use, etc.)	7	5	12	4	1	5	9	2	11
	Others Peripherals	10	17	27	14	22	36	8	34	42
Copying Machine		2	0	2	2	1	3	2	2	4
Communications Equipment	Telephone Equipment (Fax, PBX, Telephone, Key Telephone System, etc.)	6	0	6	1	2	3	1	3	4
	Network Channel Terminating Equipment (Modem, Digital Transmission Equipment, DSU, Terminal Adapter, etc.)	0	1	1	3	7	10	1	8	9
	LAN Equipment (HUB, Repeater, Switching-node, Rooter, etc.)	59	20	79	47	17	64	46	20	66
	Other Communications Equipment (Switching Equipment in a Telecom Center, etc.)	29	4	33	20	6	26	17	8	25
Others (Digital-camera, Navigator, toy, MP3 Player, etc.)		15	28	43	12	21	33	6	14	20
Total		197	238	435	161	245	406	134	271	405

● State of Registration of Measurement Facilities (Newly registered or renewed)

The following table indicates the status on registration of measuring facilities in the most recent three months.

Facilities listed here are only those made open by registering members in principle. Members with those facilities whose valid period expired are kindly advised to contact VCCI to inform of the status they are in. Status to choose from are, renewal application being filed, new application being filed, waiting for the next issue to carry, or terminating the registration (all facilities are posted in the Web site).

Facilities in Japan are listed in Japanese.

List of newly registered or renewed facilities (November 2015 – January 2016)

R: Field strength measuring facility C: Mains Port Conducted interference measuring facility T: Communication Port Conducted interference measuring facility G: Radiated EMI measurement facilities above 1GHz

No	Company Name	Facility Name	3 m	10 m	30 m	Chamber 3m	Chamber 10m	Reg. No	Validity	Location	Phone
11144	LTA Co., Ltd.	LTA No.1 Semi-Anechoic Chamber	-	-	-	-	-	G-847	2018/12/13	243, Jubug-ri, Yangji-Myeon, Yongin-Si, Kyunggi-Do, Korea	82-31-323-6008 (Dir)
11376	HCL TECHNOLOGIES LTD.	EMC & Durability Lab, HCLT	-	-	-	○	○	R-4300	2018/11/15	73-74 SOUTH PHASE ROAD, AMBATTUR INDUSTRIAL ESTATE, AMBATTUR, CHENNAI, TAMIL NADU, INDIA	91-44-43935208
11377	HCL TECHNOLOGIES LTD.	EMC & Durability Lab, HCLT	-	-	-	-	-	C-4789	2018/11/15	73-74 SOUTH PHASE ROAD, AMBATTUR INDUSTRIAL ESTATE, AMBATTUR, CHENNAI, TAMIL NADU, INDIA	91-44-43935208
11378	World Standardization Certification & Testing (Shenzhen) CO., LTD.	Site 843	-	-	-	-	-	C-4790	2018/10/18	Building A, Baoshi Road, Baoshi Science & Technology Park, Baoan District, Shenzhen, Guangdong, China	86-755-26996143-8141
11410	Nemko Canada Inc.	Montreal Radiated	-	-	-	○	-	R-4305	2018/12/13	292 Labrosse Avenue, Pointe-Claire, Quebec, H9R 5L8, Canada	1-613-737-9680
11412	日本無線株式会社	日本無線株式会社 長野事業所 電波暗室 B	-	-	-	○	-	R-4307	2019/1/17	長野県長野市稲里町下氷鉋 834 J30 号棟　電波暗室 B	026-214-7126
11413	日本無線株式会社	日本無線株式会社 長野事業所 電波暗室 B	-	-	-	-	-	C-4797	2019/1/17	長野県長野市稲里町下氷鉋 834 J30 号棟　電波暗室 B	026-214-7126
11414	日本無線株式会社	日本無線株式会社 長野事業所 電波暗室 B	-	-	-	-	-	T-2310	2019/1/17	長野県長野市稲里町下氷鉋 834 J30 号棟　電波暗室 B	026-214-7126
11415	日本無線株式会社	日本無線株式会社 長野事業所 電波暗室 B	-	-	-	-	-	G-913	2019/1/17	長野県長野市稲里町下氷鉋 834 J30 号棟　電波暗室 B	026-214-7126
11416	KES Co., Ltd.	KES Co., Ltd., Yeoju site	-	○	-	-	-	R-4308	2018/12/13	473-29, Gayeo-ro, Yeoju-si, Gyeonggi-do, South Korea	82-70-4910-6200
11417	KES Co., Ltd.	Shield Room	-	-	-	-	-	C-4798	2018/12/13	473-29, Gayeo-ro, Yeoju-si, Gyeonggi-do, South Korea	82-70-4910-6200

No	Company Name	Facility Name	3 m	10 m	30 m	Chamber 3m	Chamber 10m	Reg. No	Validity	Location	Phone
11418	KES Co., Ltd.	Shield Room	-	-	-	-	-	T-2311	2018/12/13	473-29, Gayeo-ro, Yeoju-si, Gyeonggi-do, South Korea	82-70-4910-6200
11452	ソニーモバイルコミュニケーションズ株式会社	Sony Mobile Communications (China) Co., Ltd. Test Laboratory (CE1)	-	-	-	-	-	C-4812	2018/12/13	NO.15 Tianzhu Road, A Area Tianzhu Airport Industrial Zone, Shun Yi District, Beijing, China	86-80481188-68114
11453	ソニーモバイルコミュニケーションズ株式会社	Sony Mobile Communications (China) Co., Ltd. Test Laboratory (CE2)	-	-	-	-	-	C-4813	2018/12/13	NO.15 Tianzhu Road, A Area Tianzhu Airport Industrial Zone, Shun Yi District, Beijing, China	86-80481188-68114
11454	Gumi University EMC Center	Gumi University EMC Center	-	-	-	-	○	R-4318	2018/12/13	37, Yaeun-ro, Gumi-si, Gyeongsangbuk-do, Korea	82-54-440-1194
11455	Gumi University EMC Center	Gumi University EMC Center	-	-	-	-	-	G-921	2018/12/13	37, Yaeun-ro, Gumi-si, Gyeongsangbuk-do, Korea	82-54-440-1194
11456	Guangzhou Quality Supervision And Testing Institute (GQT)	10m Chamber	-	-	-	-	○	R-4319	2019/1/17	Zhijianbiaozhun building, NO.1-2 Zhujiang Road, Chaotian Industrial Area, Shilou, Panyu District, Guangzhou, Guangdong, China	86-18680342425
11457	Guangzhou Quality Supervision And Testing Institute (GQT)	CE Test Site	-	-	-	-	-	C-4814	2019/1/17	Zhijianbiaozhun building, NO.1-2 Zhujiang Road, Chaotian Industrial Area, Shilou, Panyu District, Guangzhou, Guangdong, China	86-18680342425
11458	Guangzhou Quality Supervision And Testing Institute (GQT)	CE Test Site	-	-	-	-	-	T-2316	2019/1/17	Zhijianbiaozhun building, NO.1-2 Zhujiang Road, Chaotian Industrial Area, Shilou, Panyu District, Guangzhou, Guangdong, China	86-18680342425
11459	Guangzhou Quality Supervision And Testing Institute (GQT)	10m Chamber	-	-	-	-	-	G-922	2019/1/17	Zhijianbiaozhun building, NO.1-2 Zhujiang Road, Chaotian Industrial Area, Shilou, Panyu District, Guangzhou, Guangdong, China	86-18680342425
11460	Compliance Certification Services (Shenzhen) Inc.	10m Semi-anechoic chamber	-	-	-	-	○	R-4320	2019/1/17	No.10-1 Mingkeda Logistics park, No.18 Huanguan South Road. Guan Lan Town, Longhua New District, Shenzhen, China	86-755-28055000-8602
11461	Compliance Certification Services (Shenzhen) Inc.	Conducted disturbance shieleded room	-	-	-	-	-	C-4815	2019/1/17	No.10-1 Mingkeda Logistics park, No.18 Huanguan South Road. Guan Lan Town, Longhua New District, Shenzhen, China	86-755-28055000-8602
11462	Compliance Certification Services (Shenzhen) Inc.	Conducted disturbance shieleded room	-	-	-	-	-	T-2317	2019/1/17	No.10-1 Mingkeda Logistics park, No.18 Huanguan South Road. Guan Lan Town, Longhua New District, Shenzhen, China	86-755-28055000-8602

Before putting down a pen

PHOSPHORUS (Element of life)

From September to December last year I participated in an educational tie-up program of a university. This program is opened on the afternoon of every Saturday to students and members of society for studying together with invited lecturers. I was excited but nervous at the same time with situation that I am among young students to communicate with and study together. There was a theme in the program that drew my special attention.

Nitrogen, phosphoric acid and potash are the three ingredients of fertilizer, among which phosphorus is an element whose importance is not understood. It is said that this matter is vitally important for Japan which depends all amount of it on the import. The reason why phosphorus, whose atomic number is 15 and element number is P, was given that name (something to carry the light) in the first place is as follows. In an experiment carried out in 1669 by alchemist Brunt to turn the silver to the gold, he discovered gleaming phosphorus in the dark.

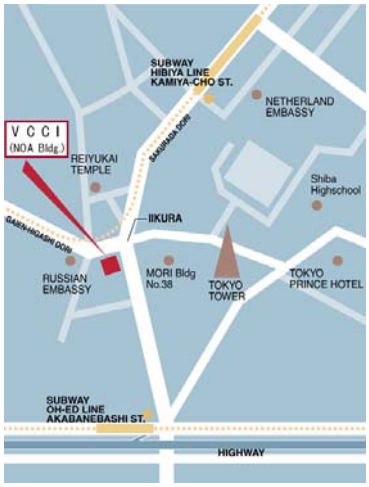
Phosphorus contained in the human body for 1% of one's weight is one of the most vital chemical elements for our life. Calcium phosphate helps create bones and DNA and RNA to transfer genes with. It also serves the preservation and utilization of energies. Therefore, the life can neither exist nor keep going without phosphorus, so I was told.

Also phosphorus is used in many of food we consume as emulsifying agent, anti-discoloration agent, foaming agent, acidifying agent, expansion agent, and Ph-adjustment agent to name just a few.

If you turn your eyes to industrial materials/products, phosphorus is used in lithium ion batteries, seats, dashboard and painting and other things. So phosphorus is indispensable for variety of materiality. Not to mention, phosphorus is mixed in fertilizers for agricultural produce and feed for stockbreeding. Speaking about our food, phosphorus contained in curry and rice for one person (weighing 450g) is 0.42g, but the amount of phosphorus needed for the production of foodstuff for one person is said to be 8g, 20 times as much. However, there is no ore of phosphorus in Japan, so Japan relies almost all necessary phosphorus on importation. As to the form of importation almost all of it is in the form of manufactured final products such as fertilizers, phosphoric acid and yellow phosphorus.

On the other hand, good quality ore of phosphorus is going into the depth of global scale exhaustion. Furthermore, massive consumption of electric power is needed for the manufacturing of phosphorus of high purity which is beyond today's power generation situation in Japan. Importation source countries for phosphorus today are China, the US, India and Brazil and others, but the prices are inflated due to high demand in their own counties to fulfill ever increasing need, so importation from those countries are getting difficult year by year.

What will be the solution to this difficult problem? It is said that the answer is to create a recycle system for the phosphorus resources. How? It could be the creation of a system of collection and recycling of phosphorus resources. Collect phosphorus as secondly resources from the sewage sludge, waste from stockbreeding and slag from steel manufacturing etc. and manufacture thickened phosphoric acid from it to reuse. Japan may be able to contribute to the world with this recycling technology. (R. Y.)



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