

VCCI DAYORI

No.118 2015.10

Contents

Greetings	President of VCCI Council	Keiichi Kawakami	1
The first step		Hiroaki Ohmatsu	2
Committee Activities			4
● Board of Directors			4
● Council			4
● Steering Committee			5
● Technical Subcommittee			5
● International Relations Subcommittee			6
● Market Sampling Test Subcommittee			6
● Education Subcommittee			7
● Communication Subcommittee			8
● Measurement Facility Registration Committee			9
● LIST OF ABBREVIATIONS used in Committee Activities section			10
Serial Article – 2			
The history of CISPR –Part 1		Masamitsu Tokuda	12
Report on VCCI Seminar for the Info-Communications Promotion Month			16
Report on participation in APEMC 2015 Taipei			19
Report on FY2014 VCCI Business Briefing Meeting			22
Invitation to the events on the 30 th Anniversary of VCCI			27
Result on FY2014 Market Sampling Test Operations			28
Status on FY2015 Market Sampling Test Operations			29
Report from the Secretariat			30
● List of Members (May 2015 ~ July 2015)			30
● VCCI Events Calendar			32
● State of Conformance Report Submitted			33
● State of Registration of Measurement Facilities (Newly registered or renewed)			34

Greetings

President of VCCI Council

Keiichi Kawakami



I was elected President of VCCI Council on June 22 this year.

I will do my best to fulfill my duty as the successor of Mr. Hidekazu Hasegawa with the kind support of you all.

In December this year we are going to celebrate the 30th anniversary of VCCI, which started out as the Voluntary Control Council for Interference by Information Technology Equipment to protect the right of consumers of electric and electronics equipment in Japan. We are most grateful to the guidance of related authorities concerned and support of VCCI members now amounting to 1,163 companies.

In recent years opportunities are rapidly increasing for individuals to utilize variety of information obtained with smartphones, tablet terminals and even wearable terminals via wireless communications. Furthermore, the time is just before us when everything in the society is wirelessly interconnected with sensors over the Internet to create innovative convenience and values. New terms such as IoT (Internet of Things) and CPS (Cyber Physical System) represent enablers of technologies to realize such things as above.

One of the keys to promote such technological advancement is the control of disturbing radio waves, which is the very mission of VCCI. We are committed to pursue our mission.

In January last year Technical Requirements under the Electrical Appliances and Materials Safety Act was revised by the METI. What will follow may most likely be the grand summarization of electrical appliances which may lead to the scope enlargement of regulated appliances and materials. Consequently it is likely that this movement affects EMC of ITE. Incidentally, it was so decided that VCCI assumes Secretariat office of the working group from July 2015 in charge of Japan adaptation of CISPR international standards. We are fully committed to this responsibility.

We would appreciate the continued support to VCCI by related government offices, VCCI members and general consumers of electric and electronic equipment.

The first step

Hiroaki Ohmatsu

Do you know what the word CCRC means? It is a community in the US in which elderly people settle and make a living from healthy time to the time nursing care is needed while enjoying life time learning and social activities. It started in 1970 and is now participated by 750,000 people at 2,000 locations. In June this year the Japan Policy Council which is sort of Japanese version of CCRC made a proposal that they positively promote the migration of elderly people to regions in 41 candidate locations in Japan to be announced.

I moved from Sakura city, Chiba where I lived for almost 35 years to Karuizawa, Nagano prefecture in May last year, not necessarily inspired by the aforementioned migration idea. What kicked this movement is as follows. Farelly long time ago when my retirement age seemed still a long time away I was chatting with a friend of mine in a bar. He said he would live his senior years in Yatsugatake mountain. He said he was already well prepared for the migration. After this talk with him, I seriously started to imagine my life in the rich nature without being pressed by the time in my elderly stage, not just as a vague hope that it will be nice to live there. However, in our observation trip to Yatsugatake, we realized that living there, not just for camping, will be very difficult for us elderly couple as no city facilities are available which are needed for our normal life. Karuizawa at which we stopped on our way back seemed alright to live in as it seemed there will be no insecurity. Karuizawa is a summer-resort with a strong city flavor to such an extent that the town is bantered as the 24th ward of Tokyo. For us with no experience in living a country the town seemed to give us a feeling of security. Karuizawa located 150km away from Tokyo can be reached in 2 hours drive on the Kan-etsu do highway and it is just over a 1 hour ride in the train if you use the Hokuriku Shinkansen. For us with almost all of our friends are in Tokyo area this convenience of short travel time is the most appealing to us. In no time after my retirement in early spring last year we, with our three old dogs, moved into the house we built on the real estate we bought 8 year before.

Four seasons of Karuizawa are really beautiful. Spring – trees shooting out buds under the remaining snow to tell that the spring is near, summer – cool enough without air conditioners due to cooling wind blowing gently from deep woods and down the Asama-yama mountain, fall – a deep calmness descended upon coloured mountains and woods recovering from summer robustiousness, and winter – powder snow falling from the cold sky and illuminations warmly welcoming people..... the seasonal changes in the scenery in a single year were simply and freshly amazing. Especially the winter is attractive as clear sky is high with good probability for fine weather without precipitation although it is very cold to such an extent you will see your breath. In early morning the sky is colored crimson with the reflection of morning sun, which is breathtakingly beautiful. In a clear night of the young moon the astronomical show with bright Venus begins. It was a wonderful experience to see so many stars to such an extent to make the identification of the milky way and constellations difficult.

My house, just an ordinary house to live for lifetime, not as a villa with elaborate design, is located in the north

side of Mikasa district of Karuizawa. In this district there is the late Swiss legation (now it is called Shinzan-so, a town designated cultural asset) from which a telegram was sent out on the acceptance of the Potsdam Declaration by the Japanese government. In building my house we installed external heat insulation system from the standpoint of heat insulation efficiency, which helped make us enjoy our life in sever winter climate of Karuizawa. Residual heat of a wood burning space heater and floor heating kept the house temperature at 15 degrees until the morning.

As to workout, most important to keep us healthy and off dementia, there is a wide choices of sports starting out with skiing, skating and, curling for the winter and end up with tennis and golf (not expensive if avoiding busy summer season) for year around. Karuizawa is sports facility rich for a town with only 20,000 population. On top of that the Karuizawa summer time university (the 67th this summer) is held for three days under the auspice of the town. This is the seminar with a glorious history. It was started in 1918 by Inazo Nitobe, the founder of the Tokyo Woman's Chrstian University and Shimpei Goto, the then Minister for Home Affairs. The theme of last year and this year is "Inquiring the Edo era" by interesting lecturers.

Disappointingly, cropping the fields in my own garden is forbidden because it will allure wild animals in the villa eara. Even if there is no regulation, cropping may still be difficult because the soil is thin with volcanic ash. We have not yet encountered bears yet, but it is pleasant for us city people to see wild animals such as Japanese serows, wild boars, raccoon dogs, squirrels and monckees, etc. These days my wife, a flower lover, spends almost whole day in the garden seemingly expecting roses to bloom after the cold winter weather.

Now we have been through the first year of migration. Not all things are rosy in reality. Sometimes we feel uneasy. Mt. Asama erupted recently although in a small scale. How long can I retain my driver's license? For the life in a country driver's license is vitally needed because the availability of public transportation system still leaves much to be desired although house delivery services are getting enriched. As I am getting older I may regret our migration to the country side. In such a pang of regret I will remember the word in a speech of Mr. Jeff Bezos (the founder of Amazon) made at the commencement day of Prinston (my alma mater) in 2010 which goes "In the end, we are our choices."

Hiroaki Ohmatsu



Born in 1948

March 1972 Graduated from the department of economics, Yokohama University

April 1972 Joined The Industrial Bank of Japan, Limited

March 1996 Dupity Director Electro Banking Promotion

June 1997 Chief of the general affairs department and management planning office

March 2011 Director of realestate business department and planning department, JST

June 2013 Retired from director's position

Committee Activities

● Board of Directors

Date	June 8, 2015
Agenda items	<ul style="list-style-type: none"> ● 1. (draft) FY2014 Business report ● 2. (draft) FY2014 Settlement of account ● 3. Call for FY2015 regular councilors meeting
Decisions made and reports given	<ul style="list-style-type: none"> ● Agenda item 1. Approved as proposed ● Agenda item 2. Approved as proposed ● Agenda item 3. Approved as proposed ● Reporting item. 1. Appointment of directors and the auditor
Date	June 22, 2015
Agenda items	<ul style="list-style-type: none"> ● 1. Election of VCCI officials
Decisions made and reports given	<ul style="list-style-type: none"> ● Agenda item 1. Approved Mr. Keiichi Kawakami as the representative of a board of directors and Mr. Akira Oda as a managing director

● Council

Date	June 22, 2015
Agenda items	<ul style="list-style-type: none"> ● 1. (draft) FY2014 Business report ● 2. (draft) FY2014 Settlement of account ● 3. Election of VCCI officials
Decisions made and reports given	<ul style="list-style-type: none"> ● Agenda item 1. Approved as proposed ● Agenda item 2. Approved as proposed ● Agenda item 3. Approved as proposed

● Steering Committee

Dates	May 20, June 17 and July 15, 2015
Agenda items	<ul style="list-style-type: none"> ● 1. Draft business report for FY2014 ● 2. Draft statement of account for FY2014 ● 3. New members application in April – June ● 4. Problem driven taskforce
Pending business	<ul style="list-style-type: none"> ● Agenda item 4 – Development of policy on the treatment of multimedia equipment by the Problem driven taskforce
Decisions made or report given	<ul style="list-style-type: none"> ● Agenda item 1. Approved ● Agenda item 2. Approved ● Agenda item 3. All applied new members were admitted ● Agenda item 4. Decided on the changes of equipment classification codes for conformity verification report ● Reporting item 1. Report for the months of April through June by subcommittees (Technical Subcommittee, International Relations Subcommittee, Market Sampling Test Subcommittee, Communication Subcommittee and Education Subcommittee) ● Reporting item 2. Secretariat report on membership changes and the number of conformity verification reports filed for the April – June period ● Reporting item 3. Budgetary execution status (on membership fees and each project) for the April – June period ● Reporting item 4. Report on the summary of Board of Directors and Board of Trustees held in June ● Reporting item 5. Summary on the business report meeting for FY2014 held in July.

● Technical Subcommittee

Dates	May 8 and July 10, 2015
Agenda items	<ul style="list-style-type: none"> ● 1. Activity plan of each working group for FY2015 ● 2. Site evaluation method suitable with CISPR32 ● 3. CISPR/A/1116/DC “Proposal on the size specification for EUT for radiated EMI measurement” ● 4. Measurement method using FAR which was added to CISPR32 Ed.2 ● 5. Proposal on CISPR draft standard for VHF-LISN
Pending business	<ul style="list-style-type: none"> ● Agenda items 2 through 5
Decisions made or report given	<ul style="list-style-type: none"> ● Agenda item 1. Approved as presented ● Reporting item 1. VCCI presented two papers in APEC 2015 Taipei held for May 25 through 29, 2015 ● Reporting item 2. Held information exchange meeting with Taiwan BSMI on May 27 which resulted in the decision on the theme for the second technical exchange meeting

● International Relations Subcommittee

Dates	April 10, May 19 and June 12, 2015
Agenda items	<ul style="list-style-type: none"> ● 1. Preparatory work for VCCI International Forum 2015 in celebration of VCCI's 30th Anniversary ● 2. Update of the table on World ITE standards ● 3. Study on the development of information sharing database for international regulations on EMC
Pending business	<ul style="list-style-type: none"> ● Agenda item 1 ● Agenda item 3
Decisions made or report given	<ul style="list-style-type: none"> ● Agenda item 2. Updated the table in the web site

● Market Sampling Test Subcommittee

Dates	May 13, June 19 and July 4, 2015
Agenda items	<ul style="list-style-type: none"> ● 1. Summary of FY2014 Market Sampling Test operation ● 2. Cases of failed tentative in FY2014 ● 3. Market Sampling Test in FY2015 ● 4. Document inspection ● 5. Joint meetings ● 6. Naming of the Market Sampling Test ● 7. Materials for the business report meeting
Pending business	<ul style="list-style-type: none"> ● Agenda item 6. Renaming of “market sampling test” was proposed (for Japanese naming only as the change does not affect the English translation)
Decisions made or report given	<ul style="list-style-type: none"> ● Agenda item 1. Findings in market sampling test operations on 110 samples are as follows <ol style="list-style-type: none"> 1. Purchase based testing: 60 units and loan based testing: 50 units 2. Six units judged “Failed tentative” were all finalized as “Passed” in investigations and treatment afterward 3. 30 comments on testing conditions and marking qualities etc. pointed out at the initial judgement were all cleared after all 4. Average time between the issuance of sample selection notice and “passed” notice was 57 days on purchase based testing and 72 days on loan based testing (against the target 2 months) 5. Performed 40 cases of document inspections, two of which were requested for re-inspection 6. Two member companies judged “failed” in the market sampling test in 2013 announced the reasons for fail in their respective website ● Agenda item 2. Responses of members whose products were judged failed were as follows <p><u>Company A</u>: Cleared by following corrected instructions on work procedure provided by USB cable supplier</p> <p><u>Company B</u>: Built-in HDD was suspected as the culprit for “Failed.” It was replaced with three other HDD models which all resulted in Passed level with fair margins. So the judgement was finalized as “Passed.”</p>

	<p><u>Company C</u>: Recorded “Passed” in the company’s own measurements (although peripheral equipment were different). Based on this fact and the fact that they perform evaluation test on mass produced products periodically the final judgement was “Passed”</p> <ul style="list-style-type: none"> ● Agenda item 3. Proposal on the addition of stick type PC recently getting popular was approved as the focused target sample in this fiscal year. ● Agenda item 4. One company whom VCCI advised for retesting as inadequate measurement conditions was observed in document inspection notified VCCI that they quit VCCI membership. It was decided to investigate the reason for withdrawal, business showings and other facts ● Agenda item 5. Had a joint meeting with commissioned testing labs to communicate on the matters to be cared at the time of testing. ● Agenda item 7. Materials for the business report meeting were shared. A graph was shown on the interrelationship between membership numbers and the number of “failed” in testing. It was suggested that preferential treatment should be considered for companies with good EMI quality management practice.
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● Education Subcommittee

Dates	May 14, June 16 and July 14, 2015
Agenda items	<ul style="list-style-type: none"> ● 1. Responses to questionnaire on the 32nd Measurement engineers basic course, the 41st Measurement engineers course and the 10th 1GHz+ radiated EMI measurement course ● 2. Introduction of new materials and equipment for education and training ● 3. Starting automated/manual measurement course
Pending business	<ul style="list-style-type: none"> ● Agenda item 3. Decided on responsible lecturers. Started the development of texts. Will continue discussions for the successful opening of the course
Decisions made or report given	<ul style="list-style-type: none"> ● Agenda item 1: Questionnaire responses were all positive ● Agenda item 2: Introduced new educational materials and equipment including new peripherals for use at courses ● Enrollment in training and education courses in FY2015 <ul style="list-style-type: none"> ● 12 trainees in the 41st course on measurement engineers held on June 4 – 5 and 11 – 12 ● 13 trainees in the 11th course on telecommunication port conducted EMI measurement held on June 26. From this time on, the statistics are combined with general measurement course which results in 137 enrollees in total ● 8 trainees in the 10th course on radiated EMI measurement above 1GHz held on July 9 – 10 ● 14 trainees in the 2nd course on operations held on July 24

● Communication Subcommittee

Dates	June 15 and July 10, 2015
Agenda items	<ul style="list-style-type: none"> ● 1. Report on the participation in Techno frontier held in May 20 – 22. ● 2. Renewal of the web site ● 3. Questionnaire addressed to VCCI committee members
Pending business	<ul style="list-style-type: none"> ● Agenda item 2. Proposal on the renovation of the VCCI website made by a designing company stressed the following points. Pages with high access rate should be relocated in the place with many accesses for new comers and repeaters in friendly design, among others.
Decisions made or report given	<ul style="list-style-type: none"> ● Agenda item 1. 260 responses were gathered to the questionnaire distributed in the exhibition site. Respondents who know the name of VCCI and its activities amounted to 88% indicating that VCCI is fairly well known among people attending professionally oriented exhibitions. ● Agenda item 3. Decided to distribute questionnaire to VCCI committee members like in the previous year with response due July 31. Analysis of gathered responses is expected to serve the improvement of VCCI outreach activities.

● Measurement Facility Registration Committee

Date	May 18, 2015
Agenda items	Reviewed the result of deliberations by the Measurement Facility Examination WG and concluded as follows
Decisions made and items completed	<p>Conformity certified (including cases certified with qualification comments after extra paper checking); 12 companies</p> <ul style="list-style-type: none"> • Radiated EMI measuring facilities; 7 • Mains ports conducted EMI measuring facilities; 5 • Telecommunication ports conducted EMI measuring facilities; 2 • Radiated EMI measurement facilities above 1GHz: 7 <p>Applications returned with comments; none Applications carried over to the next meeting; 1</p>
Date	June 29, 2015
Agenda items	Reviewed the result of deliberations by the Measurement Facility Examination WG and concluded as follows
Decisions made and items completed	<p>Conformity certified (including cases certified with qualification comments after extra paper checking); 28 companies</p> <ul style="list-style-type: none"> • Radiated EMI measuring facilities; 13 • Mains ports conducted EMI measuring facilities; 17 • Telecommunication ports conducted EMI measuring facilities; 10 • Radiated EMI measurement facilities above 1GHz: 17 <p>Applications returned with comments; none Applications carried over to the next meeting; none</p>
Date	July 27, 2015
Agenda items	Reviewed the result of deliberations by the Measurement Facility Examination WG and concluded as follows
Decisions made and items completed	<p>Conformity certified (including cases certified with qualification comments after extra paper checking); 24 companies</p> <ul style="list-style-type: none"> • Radiated EMI measuring facilities; 15 • Mains ports conducted EMI measuring facilities; 10 • Telecommunication ports conducted EMI measuring facilities; 7 • Radiated EMI measurement facilities above 1GHz: 18 <p>Applications returned with comments; none Applications carried over to the next meeting; none</p>

● 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

The history of CISPR – Part 1

By Masamitsu Tokuda

1. Foreword

History of CISPR (Comité International Spécial des Perturbations Radioélectriques in French), (International Special Committee on Radio Interference in English) is available in 5.1 of CISPR/TR 16-3¹⁾. Also Mr. Heirman, the incumbent chair of CISPR, discusses history of CISPR in a more minute fashion (partially though) than the TR²⁾. In Japan professor emeritus Akira Sugiura of Tohoku University discusses the history of CISPR and the corresponding movement in Japan in the referenced materials to the EMC Handbook. Furthermore, Mr. Masaaki Ooizumi of MIC gave detailed information on the subject in the “Knowledge base” of IEICE.

In this paper I will discuss the subject mainly based on professor emeritus Sugiura’s work.

2. Scope of CISPR and its organization

The scope of CISPR as of June 2015 is the standardization of all fields of EMC including the following³⁾. Please refer to the CISPR Guide for more information.

- 1) Protection of radio reception in the range 9 kHz to 400 GHz against electromagnetic interference caused by operation of electrical or electronic appliances and systems.
- 2) Measurement instrumentation, facilities, methods and statistical analysis for the measurement of disturbance.
- 3) Limits for radio disturbances caused by electrical or electronic appliances and systems.
- 4) Requirements for the immunity of electrical appliances, multimedia equipment, information technology equipment, radio and television broadcast receiving installations from interference.
- 5) Liaison with IEC’s Technical Committees that maintain basic standards on immunity testing. Test levels for such immunity testing will be set by CISPR.
- 6) In case requirements for emission and immunity of IEC and ISO device standard are not harmonized with CISPR standards, product TCs and CISPR are to jointly tackle the problem
- 7) Taking into account the impact to safety issues in standardizing immunity

CISPR is made of 26 P-members and 15 O-members of IEC and the following international organizations

- ① CIGRE (Conseil International des Grands Réseaux Électriques [in French]
International Council on Large Electric Systems [in English])
- ② EBU (European Broadcasting Union)
- ③ ETSI (European Telecommunications Standards Institute)
- ④ IARU (International Amateur Radio Union)
- ⑤ ITU-R (International Telecommunications Union – Radio-communications Sector)
- ⑥ ITU-T (International Telecommunications Union – Telecommunication Standardization Sector)

3. Establishment of CISPR and its development afterward

In early 1930 when radio broadcasting became popular and wireless communication advanced further the radio disturbance became a larger problem. In order to discuss this problem, related international organizations got together in Paris in 1933. Participated organizations included IEC (International Electrotechnical Commission), UIR (Union Internationale de Radiotéléphonie (French) and International Sound Broadcasting Union (English). As a result CISPR was established to standardize measurement method and allowed limits of disturbing waves so international trade on goods and business are promoted. While Technical Committees of IEC were normally participated only by the representatives of member countries, CISPR is participated by international organizations including UIR, UNIPEDE (Union internationale des producteurs et distributeurs d'énergie électrique [in French]), International Union of Producers and Distributors of Electrical Energy [in English], CIGRE, UIC (Union Internationale des Chemins de fer [in French]), International Union of Railways [in English] on top of member countries – Belgium, Netherland, Luxembourg, France, Germany and UK. Under the circumstances CISPR was initially independent of IEC and so their standards were released as CISPR Publications. However, CISPR came under IEC as IEC served as the secretariat of CISPR.

The first Plenary Assembly of CISPR was held in Paris in June 1934, which is regarded as the date of establishment of CISPR. The initial chair of CISPR was Sir C. C. Patterson of the UK. The organization at that time was structured simply with SC-A responsible for emission limits and SC-B responsible for measurement method. In 1953 London meeting Steering Committee to advise the chair and in 1958 Hague meeting SC-C in charge of the safety was added. These organizations were drastically changed in the 1973 West Long Branch meeting into the structure segmentalized into SC-A to SC-F as shown in Figure 1. In 1975 a working group, which later was promoted to SC-B, was formed under the steering committee to cope with the interference problems to radio reception by the interference from digital equipment such as microprocessors and other digital equipment. SC-B was reorganized as SC-G in the 1985 Sydney meeting with the mission to standardize the limits and measuring method on electromagnetic interference from ITE.

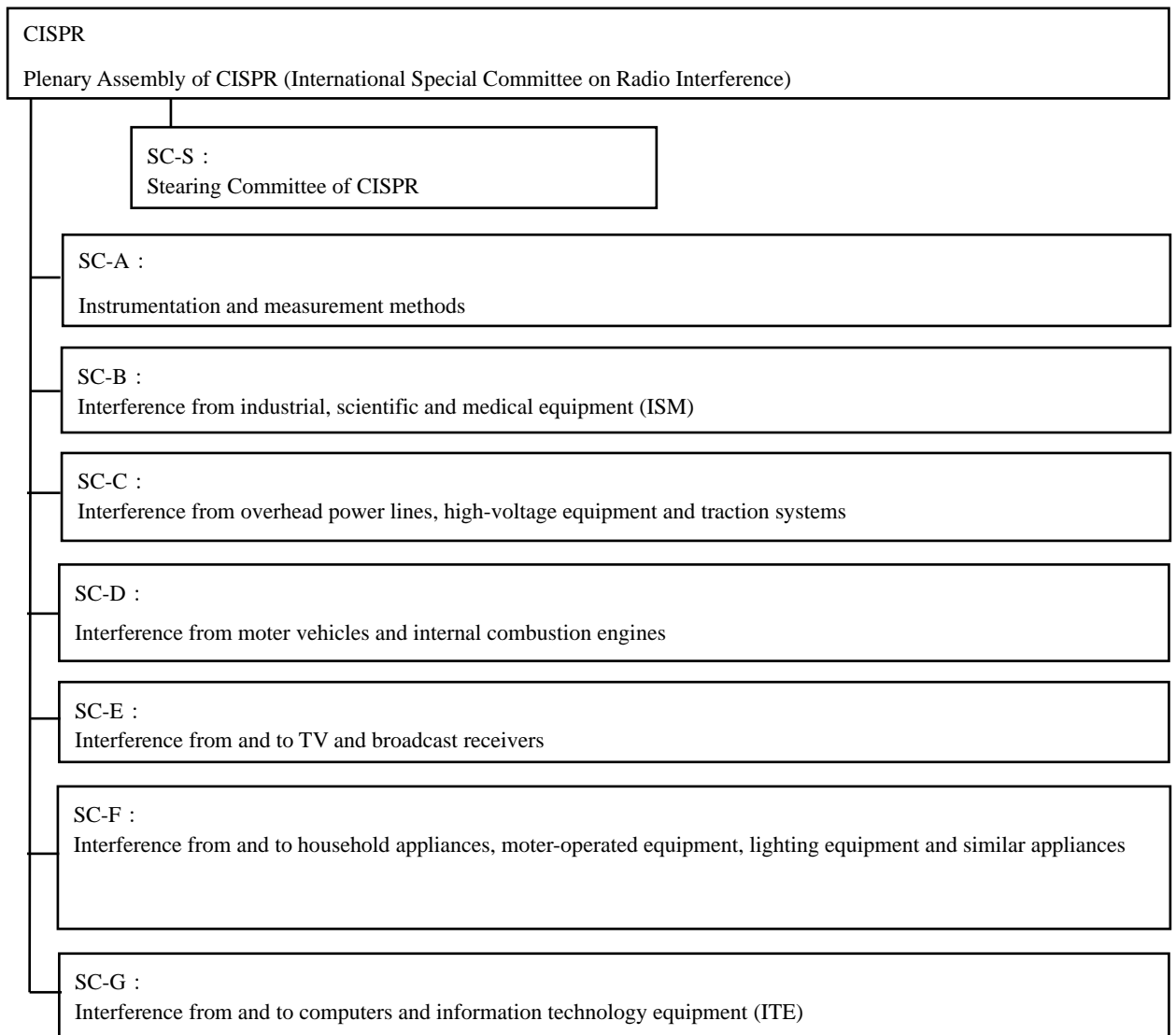


Figure 1 CISPR organization in 1985 after the drastic reorganization of 1973

In 1992 WG1 was established under the steering committee with the mission to develop common standards on emission. This WG1 evolved into SC-H in 1998 with the scope to develop common standards on emission and to study the rationale for setting limits to disturbance emission. Scope of SC-B, on the other hand, was changed to “Interference from ISM equipment” as SC-C responsible for the disturbance emission from high voltage equipment and electric railways was converged with SC-B in 2001. The work in the scope of SC-C was transferred to SC-B/WG2. SC-I “information technology equipment, multimedia equipment and receivers” was established in June 2001 as responsible for “Multimedia equipment” by merging SC-E “Voice/TV broadcasting transmitters and receivers and related equipment” with SC-G “Information Technology Equipment” and additionally added (multimedia equipment).

References: (Only those in English in the list of the original Japanese paper)

- 1) CISPR/TR 16-3: Specification for radio disturbance and immunity measuring apparatus and methods — Part 3: CISPR Technical reports, Edition 3, 5. 1 The history of CISPR, pp.228-231, 2010.8
- 2) D. Heirman and M. Stecher: History of CISPR, In Compliance News on June 1, 2010 In Standards Articles.
<http://incompliancemag.com/article/history-of-cispr/>
- 3) CISPR Scope
http://www.iec.ch/dyn/www/f?p=103:7:0:::FSP_ORG_ID,FSP_LANG_ID:1298,25



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 VCCI Seminar for the Info-Communications Promotion Month

By Steering Committee

Since April 1985 Info-Communications Promotion Month has been yearly held by the Council for Info-Communications Promotion Month with a purpose to diffuse information communication in Japan. In this fiscal year VCCI participated in the program for the third time by conducting VCCI seminar.

1. Date and place

Date/Time: May 15, 2015 13:00 – 17:00hr

Venue: VCCI meeting room, 5th floor NOA building

2. Program

Time	Content	Speakers
13:00-13:30	(1) Introduction of VCCI and direction in EMC regulation in Japan <ul style="list-style-type: none"> • Membership system and self-control, activities of VCCI • Future direction in EMI regulations (Den-an act, multimedia standard etc.) 	Shozo Satake, Senior Managing Director, VCCI
13:30-14:00	(2) Introduction of world EMC regulations	Shozo Satake, Senior Managing Director, VCCI
14:00-15:00	(3) Overview of CISPR32 Ed.2 released on 2015.03.31 in comparison with CISPR22	Ryotaro Hoshi, Chair, VCCI Technical Subcommittee
15:10-15:50	(4) EMI education/training and tips on EMI measurement <ul style="list-style-type: none"> • Overview of VCCI training program - Conformity verification reporting - Guideline on test report creation 	Minoru Hirata, Chair, VCCI Education Subcommittee
15:50-16:50	(5) Tips on easy way to identify bad EMI spot (streaminglining counter EMI measures) <ul style="list-style-type: none"> • Nearfield and farfield • Probe to detect electromagnetic field • Steps to identify problematic spots 	Masanori Yamaguchi, Education and training subcommittee
16:50-17:00	Q & A	All speakers

Number of participants: 39

3. Q & A

On Program 3

Q1: General in item 6.1 refers to a statement “a port connectable both a screened cable and an unshielded cable.”

Is this statement based on the current practice?

A1: Yes. This is to remind that the test procedure is determined by the specification of the cable used as before.

Q2: Item 6.2 says that the module shall be “at least one representative system” in the measurement of host system and modular EUT. What shall I do if I have multiple systems?

A2: There is “2dB rule.” Please do the measurement as before.

Q3: On the applicability of measurement in Item 8 it is said “if it is judged that multiple measurement is not required...” Can I interpret this statement that I pick the worst operational condition in preparing a test report?

A3: Please conduct the test in the operational condition which results in the maximum reading in the test result and clearly state the validity of the test in the test report.

Q4: There is a description about the voltage in measurement condition in Normative Annex A. If I use a universal power source applicable to wide range of voltage, which voltage should I select for testing?

A4: Select the voltage to be actually used in real operations.

Q5: Requirement in Normative Annex A has a description about tuner port. Does this mean that VCCI requires testing needed for CISPR13?

A5: Some ITE have tuner port which will have to be tested as well, so we will continue studying the scope of testing.

Q6: The distance from vertical reference plane is said to be “general distance” in Figure D.7, Normative Annex D. It was 80cm in the past. Did you change it?

A6: Let us confirm the contents. We will make a proposal on the modification to MEC Ad Hoc if necessary

On Program 4

Q1: How is acknowledgement to conformity verification report related to “certificate”?

A1: Only the acknowledgement is applied in the revision of April 2015. We will correct today’s text. Thank you for your comment.

Q2: Will you accept a test report made based on CISPR22 as a test report on CISPR32?

A2: We think we can accept it if we will be able to justify it in writing.

On Program 5

Q1: You said spectrum is different between minute loop and minute mono-pole. Did you do the example measurement for minute loop with the loop plane changed?

A1: Our chart is made based on the spectrum getting maximum by changing the face of the minute loop. Incidentally the wave spectrum will not become the same as the spectrum gets different between the near field magnetic field and the near field electric field.

4. Closing remark

This was the third VCCI participation in the Info-Communications event. Of 39 participants 90% were VCCI members. That may have been the reason for many questions asked on CISPR32. Questions and answers continued with speakers in break time and after the closure of the meeting.

Questionnaires afterward were responded with such comments as “the similar seminar should be held in west Japan too” and “I learned a lot from Steps to identify problematic spots.” We think this seminar went successfully as 75% of the participants marked “satisfactory.” One thing to improve for the future in the collected comments was to increase Q & A time which is understandable as the lecture contents were a bit too wide and deep. We would like to improve the quality of seminars of this kind in the future.



Seminar scene



Q and A scene

Report on participation in APEMC 2015 Taipei

By Technical Subcommittee

We as members of VCCI Technical Subcommittee participated in APEMC 2015 to present technical papers.

Dates: May 25 – 29, 2015

Venue: The Grand Hotel, Taipei, Taiwan

Participants: Mr. Hoshi, Chair, Technical subcommittee (Hitachi Information Communication Engineering)
Mr. Okuyama, Technical subcommittee (NEC Platforms)
Mr. Makino, Technical subcommittee (EMC Laboratory, Fujitsu General)
Mr. Shimano, Technical subcommittee (STech)
Mr. Satake, Senior managing director, VCCI
Mr. Oda, Senior staff, VCCI
Mr. Muramatsu, VCCI technical director

1. Overview of the symposium

200 papers on EMC design and EMC/RFI measurement were presented in 50 workshops and tutorial sessions. Themes included System Integrity/Power Integrity, integrated circuits/packaging, wireless communications and smart grid, etc.

Announced inspection statistics covers 256 paper submissions, of which accepted were 198 papers (77%) made of 166 presentations and 32 poster sessions.

Keynote 1 dealt with applications for smartphones with such keyword as Smarter New World, Connect and Immersive, etc.

Keynote 2 dealt with Taiwanese endeavor in semiconductor business under such keyword as Strong experience, Capturing, Connecting and Touching.

(1) Workshops and tutorials

Conducted everyday in May 26 – 29 period with 46 presentations under 15 sessions.

It was worthy of noting that WG07 covered EMC testing affected by the revision of ANSI C63.4-2014.

(2) Sessions

Technical program was arranged under the following topics

Topics	No. of Papers	Topics	No. of Papers
Aerospace EMC	6	Integrated Circuit EMC	18
Antenna and Wave Propagation	22	Power System EMC and Smart Grid	1
Biomedical Electromagnetics	11	Signal Integrity and Power Integrity	38
Computational Electromagnetics	12	System Level EMC and Protection	7
Electromagnetic Environment	2	Transient EMC	20
Electronic Packaging EMC	6	Transportation EMC	12
EMC in Nanotechnology and Advanced Materials	1	Wireless Communication EMC	5
EMC Measurement and Instrumentation	21	Wireless Power Transfer	2
EMC Standard and Management	2	Others	12

(3) Paper presentations by VCCI participants on May 29

- ①Mr. Okuyama presented “Improvement of Radiated Emission Measurement Reproducibility with VHF-LISN Obtained from Final Results of International Inter-laboratory Comparison on Termination Control of Power Line”

What follows is major Q & A on the presentation

Q1 : What is difference in actual emission level between the measurement with and without VHF-LISN? If there is difference I like to know what impact will the allowance level suffer.

A1 : The gist of the paper is that it is considered a big problem that measurement readings vary from one test site to the next due to the impedance of power supply for EUT is not specified. Our proposal is to normalize power supply impedance to avoid this problem.

Comment : I understand the significance of the proposal. I hope you continue pursuance of this solution by all means as it is also being studied in CISPR1/WG2.

- ②Mr. Makino presented “Comparison Experiments on Hybrid and Biconical / LPD Antennas in Radiated Emission Measurement Below 1GHz”

What follows is major Q & A on the presentation.

Q1 : I understand that VCCI does not recommend the use of hybrid antenna for 3m measurement at the time of measuring facility registration. How will you apply the result of your experiment to this problem?

A1 : We already accept the use of hybrid antenna (except some antennas) based on the result of this experiment. However, we do not approve the use of hybrid antenna with element length longer than 1.5m as before.

Q2 : In your experiments you used 6 antennas. How did you calibrate each of them?

A2 : We calibrated all of them under the same condition in the same site.

Q3 : Please explain why the result of measurement with hybrid antenna gets higher at 200~300MHz.

A3 : We consider that this is because the biconical element of a hybrid antenna picks vertical element when the antenna is horizontally polarized and conversely it picks horizontal element when the antenna is vertically polarized. However, in actual testing of EUT horizontal and vertical polarization occur simultaneously, so we think the experiment this time nearly simulated the real measurement.

(4) Exhibition

The exhibition was held in Grand Hotel by 17 exhibitors with measurement apparatus, antennas, simulators and the like. It should be noted that VHF-LISN was exhibited by FCCcompany. The total number of exhibitors seemed to have been smaller than the previous year.

2. Observations

Presentations by Mr. Okuyama and Mr. Makino were made in the EMC Management session which was attended by approximately 40 people making the presentation room full. Mr. Okuyama talked about the current problems and the solution by VHF-LISN proven in the international RRT. Positively encouraged by the reaction the responsible WG of VCCI will continue its effort to get it adopted as CISPR standard.

Presentation by Mr. Makino on the use of hybrid antenna for measurement distance 3m was made based on experiments on the comparison of results of measurement with bicon/logperiodic antenna. This comparison resulted in the denial of the previous VCCI position that “the use of hybrid antenna for measurement distance 3m was not recommendable.” The reason for the self denaial was the difference in measurement result was proven negligibly small in the experiment. Also nullified was the rule that registration of hybrid antenna as measurement facility shall go with comments except for some antennas. Those changes are welcomed in terms of international harmonization.

As to other sessions, comparatively many sessions were on antenna analysis associated with product evaluation based on actual measurement and numerical analysis.

APEMC 2016 will be held for May 18 – 21, 2016 in Shenzhen, China

Report on FY2014 VCCI Business Briefing Meeting

VCCI Secretariat Office

Date: July 3, 2015 13:30 – 17:30hr

Place: Conference room 6-D of Kikai Shinko Kaikan

The number of attendees: approximately 70

Program

Subjects	Speakers
Greeting	Keiichi Kawakami, VCCI President
Overall business	Akira Oda, Senior managing director
Activities of Steering Committee	Shinji Mine, Chairman, Steering Committee NEC Platforms Ltd.
Subcommittees' activities	
• Technical Subcommittee	Ryotaro Hoshi, Chairman, Hitachi Information and Telecommunication Engineering, Ltd.
• International Relations Subcommittee	Yukio Uchida, Chairman, Panasonic
• Market Sampling Test Subcommittee	Shin Kanno, Chairman NTT Advanced Technology. Ltd.
Break	
• Communication Subcommittee	Shinji Kuroda, Chairman Hitachi Information & Telecommunication Engineering, Ltd.
• Education Subcommittee	Minoru Hirata, Chairman Hitachi
Q & A	
Break	
Special lecture: "The 4 th Industrial Revolution on Japanese "Mono zukuri," IoT to save Japan Lecturer : Ryoza Yoshikawa, Project researcher, Monozukuri management research center, Economics Research Center, Tokyo University Graduate School	

■ Greeting by Mr. Kawakami

- Took office as President of VCCI on June 22, 2015 after Mr. Hasegawa
- The number of VCCI members is 1,163 at the end of the last fiscal year. Will celebrate the 30th anniversary in December this year thanks to support of related government offices and members.
- Use of radio wave is increased due to the diffusion of smart phones, tablet terminals and wearable

terminals etc. Under the circumstance to control disturbance emission is getting more and more important for efficient utilization of radio wave. VCCI is committed to support this move.

- With the firm support of members as before we would like to do our best to contribute to the improvement of the radio wave environment in Japan

■ Business report for FY2014 and business plan for FY2015 by Mr. Oda

Business report for FY2014

- The status on VCCI, organization, councilors and board of directors
- Change in membership, overseas members, the number of conformity verification reports, mutual acceptance of test report and site registration status between Japan and the US.
- Net assets variation statement covering business revenue changes and operational expenses
- Audited financial statement for FY2014
- Major activities in FY2014
Refresh attractive VCCI operations, run the secretariat office in CISPR WG, promote computerization of administrative work, effectively maintain interrelationship with overseas peers, etc.

Operating plan for FY2015

- Communicate on the councilors and board of directors
- Briefing on the strategic operating plan and focused direction
Refresh attractive VCCI operations, go into CISPR32 centric operations, celebration program for VCCI 30th anniversary and enhance cooperation with overseas counterparts, etc.
- Budget for FY2015 – business income vs. operational expenditures

■ Report on Steering Committee by Chairman Mr. Mine

- Structure of VCCI committees in FY2014, roles and operations of subcommittees and members of Steering committee
- Highlight of FY2014 activities
 - Submitted DC document on VHF-LISN CISPR Frankfurt meeting
 - Made presentations on the following papers at EMC '14 Tokyo and EMC Euro (Göteborgs)
 - * Deviation in the measurement of disturbance by the difference in the height of AMN and its placing conditions
 - * Reduction of uncertainty of measurement by applying VHF-LISN
 - * Influence of terminating impedance on the radiated disturbance in the case of CMAD inserted in mains cable
 - * In EMC'14 Tokyo VCCI steered an organized session
 - Information exchange meetings with overseas related organizations
 - Ran EMC seminars in the following occasions
 - * Info-Communications Promotion Month of Ministry of Internal Affairs and Communications

*EMC seminars in prefectural level industry technology centers at:

Fukui prefecture, Miyagi prefecture and Shizuoka prefecture

- Report on the continuation of mutual acceptance of laboratory test data
- Report on activities of the VCCI problem driven taskforce covering missions/roles of VCCI, the Den-an act, readiness for CISPR32, VCCI marking, and others
- Reported on highlight of operating plan for FY 2015 covering study and promotion of attractive activities by the taskforce, promotion of international standardization of VHF-LISN, dense information exchange with related organizations, running EMC seminars and launching of commemorative event for VCCI 30th anniversary

■ Report on Technical Subcommittee by Chairman Mr. Hoshi

- Basic activity plan and organization of Technical Subcommittee for FY2014 followed by track record on subcommittee activities
- Highlight of activities in FY2014 of each working group – CISPR project, CISPR32, radiated EMI, conducted EMI, antenna calibration and rules revision
- CISPR project WG, Radiated EMI WG and Conducted EMI WG teamed up for the CISPR32 based revision of VCCI technical requirements
- Gave a report on FY2015 organization, activity plan and members of the Technical Subcommittee
- Reviewed activity plan of each WG under the Technical Subcommittee

■ Report on International Relations Subcommittee by Chairman Mr. Uchida

- Responsibilities and roles of the subcommittee and activities in FY2014
- Direction in EMC related regulations in FY2014 in major overseas countries including North America, EU and Australia.
- Database of ITE conforming with latest EMC standard
- International Forum 2015 convened with invited speakers from CISPR secretariat, EU and US. The theme was “Updates on CISPR32 and regulatory directions in the US and EU.”
- Introduced new members of International Relations Subcommittee together with activity plan for FY2015

■ Report on Market Sampling Test Subcommittee by Chairman Mr. Kanno

- Gave a briefing on the VCCI scheme based on self control and market sampling test
- Activities in FY2014
 - Sampling test on 110 samples: Failed: 1 and Passed 109
 - Document inspection on 40 cases: Requested 2 cases to be retested
 - Fact-finding survey on VCCI mark display: 1600 units checked and issued correction recommendations for inappropriate markings

- Statistics on market sampling tests:
 - Trends in the result of sampling tests: by class, by type (purchase and lease), by country
 - Distributions of selected member numbers and failed rate. Analysis of the cause of “Failed” and trends in failed causes
- Report on document inspection in FY2014
 - Performed 40 cases, retest requested 2 cases. 39 cases with erroneous or missed recording were finalized as passed after the correction confirmed
 - By country: 22 Japan, 10 US, 4 Taiwan, 1 China, 1 Korea, 1 Canada and 1 Israel
- Explanation of fact-finding on VCCI marking
 - Examples of deformity of the mark design, examples of display on the outer carton versus the proper display of VCCI mark
- Activity plan for FY2015 and introduction of members of the Market Sampling Test Subcommittee

■ Report on Communication Subcommittee by Chairman Mr. Kuroda

- Briefed on activities in FY2014
- Publications – VCCI Dayori 113 – 116 and 2013 edition of Annual Report (in Japanese and English)
- Activities to increase the rate of brand name recognition - Posted an illuminated signboard on VCCI at JR Osaka and Akihabara stations and adhesive ad on the door windows of Subway Hibiya line
- Activities to increase the rate of brand name recognition among students
Developed a brochure (both in Japanese and English) on the invitation to VCCI membership addressing students, distributed free notebook “O-en notebook” to 22 universities, ran VCCI ad on technical magazines (Monthly Sindenki, Monthly EMC and Journal of IEICE) and Sankei Shimbun newspaper and distributed free 2015 calendars to VCCI members in Japan.
- Reported the result of name recognition survey on VCCI public relations activities
- Participation in exhibitions - COMPUTEX TAIPEI 2014 and TECHNO FRONTIER 2014
- Activity plan for FY2015 and introduction of members of the subcommittee

■ Report on Education Subcommittee by Chairman Mr. Hirata

- FY2014 track record on education course implementation – Basic course for measurement engineers, Training course for measurement engineers, Antenna calibration/NSA measurement course, Telecommunication port conducted EMI measurement course, Radiated EMI above 1GHz measurement course and Operations course (new)
- FY2014 questionnaires to trainees – Over 95% of respondents responded as almost satisfactory
- New course “Use of automatic and manual measurement” to be started in FY2015
- FY2015 activity plan and introduction of the cooperative organizations for education endeavor and members of Education Subcommittee

Lastly Professor Yoshikawa made a special speech under the title “The 4th Industrial revolution of Japanese style manufacturing – IoT to save Japan”

First of all the professor raised a question, “Was Japanese industrial competitive power simply lost in the six handicaps?” In looking back over the past history, innovative inventions and discoveries appeared in the downward period in the long range wave which give birth to innovative discoveries and inventions. This ups and downs is called Kondratieff cycles. IoT is one of such innovative inventions born in this cycle.

Introduced next was the 4 great changes in manufacturing world. They are “globalization of market,” “globalization of procurement,” “globalization of R&D” and “globalization of competition” in the environment changed from “analogue based manufacturing” to “digital based manufacturing.” Under the circumstances it is important to separate [things] from [manufacturing] in dealing with new Monozukuri (manufacturing). Key words here are speedy changes in manufacturing strategy from consensus based manufacturing to modular based manufacturing utilizing IT to win global competition. One of exemplified trends in manufacturing is German “Industry 4.0” driven only by machines without workers. In the US GE is tackling with “Industrial Network” to link up industrial machines. In Japan new business is being created based on IoT system called “Medical, job and people” as a vehicle to create new business as “The 4th Monozukuri Industrial Revolution,”

In closing Professor Yoshikawa stressed that the new 6CON is very important as the core of IoT. The new 6CON is a coined word created with acronym from “Contact and Cognition,” “Conduit Container,” “Contents Context” and “Control.”



A scene of the business report meeting



Guest speaker Professor Yoshikawa

Invitation to the events on the 30th Anniversary of VCCI

VCCI Secretariat Office

VCCI will observe its 30th anniversary on December 19, 2015. We will conduct the following events in celebration of the occasion. Please mark the day and join us.

1. Celebratory VCCI International Forum

Date: November 20, 2015 10:30 – 17:00hr

Place: The United Nations University, in Aoyama Tokyo

Program (tentative) :

- Special speeches by MEC and METI officials
- Presentations by invited speakers
 - (1) Gulf information
 - (2) EU Commission information
 - (3) US FCC information

2. Celebratory party

Date: November 20, 2015 18:00 – 20:00hr

Venue: The Hotel Grand Arc Hanzomon

Program:

- Congratulatory addresses
- Presentation of testimonial of gratitude
- Social gathering

3. Commemorative publication of VCCI 30th anniversary

Will be released in February 2016 (tentative) covering the history and way forward of VCCI

Result on FY2014 Market Sampling Test Operations

Market Sampling Test Subcommittee

As of July 31, 2015

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	120	10	0	110	110	0	103	7	0	0

Loan-based testing total	59	9	0	50	50	0	46	4	0	0
1 st Quarter	14	3	0	11	11	0	10	1	0	0
2 nd Quarter	26	4	0	22	22	0	20	2	0	0
3 rd Quarter	17	1	0	16	16	0	16	0	0	0
4 th Quarter	2	1	0	1	1	0		1	0	0

Purchase-based testing total	61	1	0	60	60	0	57	3	0	0
1 st Quarter	20	0	0	20	20	0	20	0	0	0
2 nd Quarter	24	1	0	23	23	0	21	2	0	0
3 rd Quarter	16	0	0	16	16	0	15	1	0	
4 th Quarter	1	0	0	1	1	0	1	0	0	0

Final Result

Passed	Failed	Pending
110	0	0

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

Document inspection	Selected	Cancelled (withdrawal, etc.)	Owner's consent pending	Inspectable samples	Inspection Completed	Judgment awaited	Judgment	
							Cleared	Problems identified
	41	1	0	40	40	0	38	2

Status on FY2015 Market Sampling Test Operations

Market Sampling Test Subcommittee

As of July 31, 2015

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	46	1	5	40	15	6	9	0	0	0
Previous month grand total	0	0	0	0	0	0	0	0	0	0

Loan-based testing total	26	1	3	22	9	1	8	0	0	0
1 st Quarter	14	1	1	12	9	1	8	0	0	0
2 nd Quarter	12	0	2	10	0	0	0	0	0	0
3 rd Quarter	0	0	0	0	0	0	0	0	0	0
4 th Quarter	0	0	0	0	0	0	0	0	0	0

Purchase-based testing total	20	0	2	18	6	5	1	0	0	0
1 st Quarter	20	0	2	18	6	5	1	0	0	0
2 nd Quarter	0	0	0	0	0	0	0	0	0	0
3 rd Quarter	0	0	0	0	0	0	0	0	0	0
4 th Quarter	0	0	0	0	0	0	0	0	0	0

Final Result

Passed	Failed	Pending
9	0	0

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

Document inspection	Selected	Cancelled (withdrawal, etc.)	Owner's consent pending	Inspectable samples	Inspection Completed	Judgment awaited	Judgment	
							Cleared	Problems identified
	20	1	5	14	9	2	7	2

Report from the Secretariat

● List of Members (May 2015 ~ July 2015)

New Members

Membership	Member No.	Company Name	Country
Regular	3640	Alcatel-Lucent IP R&T	USA
Regular	3655	Allot Communications	JAPAN
Regular	3644	Beseye Cloud Security Co., Ltd.	CHINESE TAIPEI
Regular	3659	COLEBROOK BOSSON SAUNDERS LTD	U.K.
Supporting	3647	Compliance Certification Services (Shenzhen) Inc.	CHINA
Regular	3638	HP Japan Inc.	JAPAN
Supporting	3649	Iwate Industrial Research Institute	JAPAN
Regular	3664	KAMETSU CORP.	JAPAN
Supporting	3669	KES Co., Ltd.	KOREA
Supporting	3656	Lab-T, Inc.	KOREA
Regular	3660	Lorom Industrial Co., Ltd.	CHINESE TAIPEI
Regular	3643	NTT DATA INTELLILINK CORPORATION	JAPAN
Regular	3657	OXTI CORPORATION	CHINESE TAIPEI
Regular	3642	PNY TECHNOLOGIES, INC. -Storage Solutions & NewProducts Division	USA
Regular	3651	Skyport Systems, Inc.	USA
Regular	3653	Spacelink Corporation	KOREA
Regular	3650	Spectra Logic Corporation	USA
Regular	3652	TP-LINK Technologies Co., Ltd.	CHINA
Supporting	3648	UniLab (Shanghai) Co., Ltd.	CHINA
Regular	3637	Y's corporation	JAPAN
Regular	3665	zSpace, Inc.	USA
Regular	3646	ZUNIDATA SYSTEMS INC.	CHINESE TAIPEI

Withdrawal Members

Membership	Member No.	Company Name	Country
Regular	1176	CrossRoads Systems, Inc.	USA
Regular	3375	Gemtek Technology Co., Ltd.	CHINESE TAIPEI
Regular	3616	Lynx Innovation Ltd	CHINA
Regular	2892	Oracle/Acme Packet	USA
Regular	3480	POINT MOBILE CO., LTD	KOREA
Regular	3123	WORLDVIEW TECHNOLOGY CORP.	CHINESE TAIPEI
Regular	1198	ONKYO CORPORATION	JAPAN

Change of Company Name

Membership	Member No.	Company Name	Country	Former Company Name
Regular	2276	Artesyn Product Testing Services	USA	Artesyn Embedded Computing Product Testing Services
Regular	2856	Burroughs, Inc.	USA	Burroughs Payment Systems Inc.
Supporting	3177	Centre Testing International Group Co., Ltd.	CHINA	Centre Testing International (Shenzhen) Corporation
Regular	2033	DASAN Network Solutions, Inc.	KOREA	DASAN Networks, Inc.
Supporting	243	International Standards Laboratory Corp.	CHINESE TAIPEI	International Standards Laboratory
Regular	2152	Lantronix Inc.	USA	Lantronix
Regular	3214	Lite-On Technology Corporation	CHINESE TAIPEI	LITE-ON IT Corporation
Regular	1750	LIWANLI Innovation Co., Ltd.	CHINESE TAIPEI	Carry Technology Co., Ltd.
Regular	3398	Lookingglass Cyber Solutions	USA	CloudShield Technologies, Inc. an SAIC company
Regular	3362	Newline Interactive Inc.	CHINESE TAIPEI	Newline Interactive
Regular	825	NEC Network and sensor Systems, Ltd	JAPAN	NetComSec Co., Ltd.
Regular	3247	SoftBank Corp.	JAPAN	SOFTBANK MOBILE Corp.
Regular	312	MINATO HOLDINGS. INC	JAPAN	MINATO ELECTRONICS INC.
Supporting	1370	Labotech International Co., Ltd.	JAPAN	Furuno Labotech International Co., Ltd.

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

<p>April</p> <ul style="list-style-type: none"> • VCCI Basic Course for Measurement Engineers 	<p>May</p> <ul style="list-style-type: none"> • VCCI Course for Measurement Engineers • Exhibition at TECHNO FRONTIER 	<p>June</p> <ul style="list-style-type: none"> • VCCI Course Telecommunication Ports Conducted EMI Measurement • VCCI Business Reporting Meeting • Release VCCI Dayori No.117
<p>July</p> <ul style="list-style-type: none"> • VCCI Course of Rules for Voluntary Control Measures (tentative) • VCCI Course on Radiated EMI Measurement Above 1GHz • Release Annual Report 	<p>August</p>	<p>September</p> <ul style="list-style-type: none"> • VCCI Basic Course for Measurement Engineers • VCCI Course for Measurement Engineers • Release VCCI Dayori No.118
<p>October</p> <ul style="list-style-type: none"> • VCCI Course for Measurement Engineers • VCCI Course on Antenna Calibration and NSA Measurement 	<p>November</p> <ul style="list-style-type: none"> • VCCI Course on Radiated EMI Measurement Above 1GHz 	<p>December</p> <ul style="list-style-type: none"> • VCCI Course of Rules for Voluntary Control Measures (tentative) • Release VCCI Dayori No.119
<p>January</p> <ul style="list-style-type: none"> • VCCI Rules Explanatory Meeting Combined with Technical Symposium 	<p>February</p>	<p>March</p> <ul style="list-style-type: none"> • Release VCCI Dayori No.120

● State of Conformance Report Submitted

May 2015 ~ July 2015

Classification		Corresponding	May 2015			June 2015			July 2015		
		M o n t h	A	B	Total	A	B	Total	A	B	Total
Mainframe Computer (Super Computer, Server, etc)		C l a s s	35	2	37	24	1	25	38	3	41
Personal Computer	Desk-top type, etc		0	11	11	0	20	20	1	26	27
	Note type, etc		0	23	23	0	28	28	2	59	61
	Palm top type, etc		0	1	1	0	3	3	0	4	4
Office Computer, Mini-Computer, Workstation, etc			3	3	6	1	0	1	7	4	11
Peripherals/Terminals Equipment	Auxiliary Memory (Storage Device)		18	24	42	13	26	39	10	14	24
	Printer		3	8	11	4	16	20	2	7	9
	Display (LCD, CRT Display, etc.)		10	57	67	20	78	98	20	42	62
	Input/Output Device (excluding Auxiliary Memory, Printer, and Display)		4	26	30	1	21	22	1	34	35
	General Purpose Terminal (Display, Typewriter Terminal, etc.)		1	0	1	0	1	1	0	3	3
	Exclusive Terminal (POS, Terminal for Medical, Financial, and Insurance use, etc.)		25	5	30	14	4	18	3	1	4
	Others Peripherals		3	33	36	5	23	28	10	32	42
Copying Machine			1	0	1	1	3	4	2	2	4
Communications Equipment	Telephone Equipment (Fax, PBX, Telephone, Key Telephone System, etc)		4	0	4	2	5	7	1	3	4
	Network Channel Terminating Equipment (Modem, Digital Transmission Equipment, DSU, Terminal Adapter, etc)		1	8	9	1	2	3	1	8	9
	LAN Equipment (HUB, Repeater, Switching-node, Router, etc)		51	26	77	68	8	76	42	24	66
	Other Communications Equipment (Switching Equipment in a Telecom Center, etc)		9	17	26	24	7	31	13	9	22
Others (Digital-camera, Navigator, toy, MP3 Player, etc)			3	12	15	16	12	28	12	25	37
Total			171	256	427	194	258	452	165	300	465

● 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 (May 2015 – July 2015)

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	会社名	設備名	3 m	10 m	30 m	暗 3m	暗 10m	登録番号	有効期限	設備所在地	問い合わせ先 TEL
11023	KOSTEC Co., Ltd.	Semi-Anechoic Chamber	-	-	-	-	○	R-4202	2018/5/17	28 406-gil sejaro, Hwaseong-si Gyeonggi-do, Korea	82-31-222-4251
11070	The First Research Institute of Telecom. Tech. TFTX Laboratory	The First Research Institute of Telecom. Tech. TFTX Laboratory	-	-	-	○	-	R-4219	2018/4/26	Pingjiang Road No.8, Shanghai, China	86-13671966320
11073	The First Research Institute of Telecom. Tech. TFTX Laboratory	The First Research Institute of Telecom. Tech. TFTX Laboratory	-	-	-	-	-	G-838	2018/4/26	Pingjiang Road No.8, Shanghai, China	86-13671966320
11104	SP Technical Research Institute of Sweden	SP Denmark A/S-G	-	-	-	-	-	G-842	2018/4/26	A.C.Meyervaenge 15, Copenhagen SV, Denmark	45-27833428
11139	Intertek Testing Services Ltd., Shanghai	EMC Lab	-	-	-	○	-	R-4243	2018/4/26	B1. No.86, 1198 Qinzhou Road (North), Shanghai, China	86-21-61278269
11140	Intertek Testing Services Ltd., Shanghai	EMC Lab	-	-	-	-	-	C-4723	2018/3/15	B1. No.86, 1198 Qinzhou Road (North), Shanghai, China	86-21-61278269
11141	Intertek Testing Services Ltd., Shanghai	EMC Lab	-	-	-	-	-	T-2252	2018/4/26	B1. No.86, 1198 Qinzhou Road (North), Shanghai, China	86-21-61278269
11142	Intertek Testing Services Ltd., Shanghai	EMC Lab	-	-	-	-	-	G-845	2018/3/15	B1. No.86, 1198 Qinzhou Road (North), Shanghai, China	86-21-61278269
11143	UL International Singapore Pte Ltd	Radiated Emission 10m Chamber	-	-	-	-	-	G-846	2018/5/17	20 Kian Teck Lane Singapore 627854	65-68764625
11179	TUV Rheinland (Guangdong) Ltd.	TUV Rheinland (Guangdong) Ltd. EMC laboratory	-	-	-	-	-	C-4735	2018/4/26	No,102, 1F of Southwest and No.205, 2F of West Warehouse Building, No.767 Tianyuan Road, Tianhe District, Guangzhou, Guangdong, China	8620-28391179
11203	三菱電機株式会社	長崎電波暗室	-	-	-	-	-	G-865	2018/5/17	長崎県西彼杵郡時津町 浜田郷 517-7	095-881-0070
11205	York EMC Services, Grangemouth	York EMC Services, Grangemouth	-	-	-	○	-	R-4258	2018/5/17	York EMC Services, Unit 1, Grangemouth Technology Park, Earls Road, Grangemouth, FK3 8UZ, Scotland, UK	44-1324-469000

No	会社名	設備名	3 m	10 m	30 m	暗 3m	暗 10m	登録番号	有効期限	設備所在地	問い合わせ先 TEL
11206	York EMC Services, Grangemouth	LAB 2	-	-	-	-	-	C-4741	2018/5/17	York EMC Services, Unit 1, Grangemouth Technology Park, Earls Road, Grangemouth, FK3 8UZ, Scotland, UK	44-1324-469000
11207	York EMC Services, Grangemouth	LAB 2	-	-	-	-	-	T-2264	2018/5/17	York EMC Services, Unit 1, Grangemouth Technology Park, Earls Road, Grangemouth, FK3 8UZ, Scotland, UK	44-1324-469000
11208	York EMC Services, Grangemouth	LAB 1	-	-	-	-	-	G-866	2018/5/17	York EMC Services, Unit 1, Grangemouth Technology Park, Earls Road, Grangemouth, FK3 8UZ, Scotland, UK	44-1324-469000
11209	BTL Inc.	CB08	-	-	-	○	○	R-4259	2018/6/28	No.68-1, Ln. 169, Sec. 2, datong Rd., Xizhi dist., New Taipei City 221 Taiwan	886-2-26573299
11210	BTL Inc.	CB11	-	-	-	○	-	R-4260	2018/6/28	No.68-1, Ln. 169, Sec. 2, datong Rd., Xizhi dist., New Taipei City 221 Taiwan	886-2-26573299
11211	BTL Inc.	C05	-	-	-	-	-	C-4742	2018/6/28	No.68-1, Ln. 169, Sec. 2, datong Rd., Xizhi dist., New Taipei City 221 Taiwan	886-2-26573299
11212	BTL Inc.	C05	-	-	-	-	-	T-2265	2018/6/28	No.68-1, Ln. 169, Sec. 2, datong Rd., Xizhi dist., New Taipei City 221 Taiwan	886-2-26573299
11213	BTL Inc.	CB08	-	-	-	-	-	G-867	2018/6/28	No.68-1, Ln. 169, Sec. 2, datong Rd., Xizhi dist., New Taipei City 221 Taiwan	886-2-26573299
11214	BTL Inc.	CB11	-	-	-	-	-	G-868	2018/6/28	No.68-1, Ln. 169, Sec. 2, datong Rd., Xizhi dist., New Taipei City 221 Taiwan	886-2-26573299

Before putting down a pen

Walk in downtown Tokyo

Recently town walk is a boom. Middle aged people enjoy walking in vicinities saying they are doing mini excursion. They may be influenced by TV programs such as mini walk and walk in my own pace. Frankly I am one of them. However, the time I started this pastime was far before the boom created by the TV program. In my student days I walked around the town alone with curious eyes wondering if there is any spot interesting.

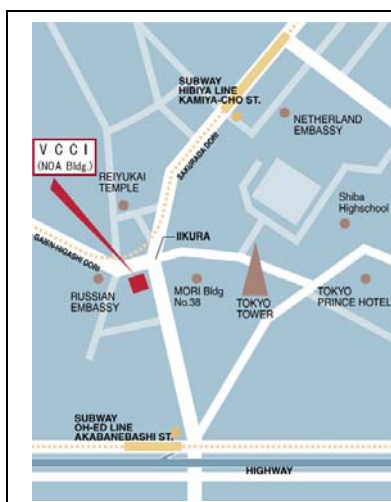
My recent favorite area for walking is the downtown Tokyo. The other day we seven elder buddies enjoyed walking in Fukagawa and Tsukishima areas. Starting from Kiyoshumi Shirakawa station where we got together we walked around the Reiganji temple where there are the tombs of Sadanobu Matsudaira who was the feudal lord of the Shirakawa clan and is known as the lord who led the reform of Kansei. Another temple we visited was Johtoin temple where there is the tomb of Bunzaemon Kinokuniya. In front of those tombs we felt we were taken back to those eras. This Kiyosumi Shirakawa area is known as many talk-of-the-town new wave cafés. We rested in Blue Bottle Coffee, one of the representative cafés of such kind, to get exposed to such new wave trend. For lunch we ate Fukagawa meshi to enjoy the local flavor. After that we walked to Tomioka Hachiman shrine, famous for funds soliciting sumo wrestling

show in the Edo era. There we observed tombstones of famous Raiden Tame-emon and other successive yokozunas. Palm stamps and foot stamps of huge sumo wrestlers exhibited there show how huge those sumo wrestlers were.

In the later part of our walk we went from Ecchujima to Tsukishima and visited the Paris plaza located in the corner of the site of high rise apartment houses in Ishikawajima. The Paris plaza was established for the reasons that the Seine in Paris and the Sumidagawa river are in friendly relations in the situation in which Tokyo and Paris are in friendly relations. Here three horse chestnut trees are growing which were presented by Mr. Jacques Chirac, the former president of France. Looking at the Sumida river from this plaza I felt as if I were standing in Île de la Cité in the Seine. Lastly we dropped in a monja yaki restaurant in the Monja street of Tsukishima to mark the end of the pleasant day's trip.

In downtown Tokyo, which is not so far from where we live and work, there are many notable places remaining unvisited by us, which keep nostalgic atmosphere as well as historically notable things of Edo, Meiji, Taisho and Showa eras. I like to continue this pastime of downtown walking to enjoy food of the place, feel the wind of the eras and think deeply about the history. (N.T.)

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