APL 2013 Seoul

8 th 2013 Asia-Pacific International Conference on Lightning

第 8 回　アジア - 太平洋沿岸諸国　国際雷関連会議

参加概要報告書

韓国 Seoul で開催された APL2013 Seoul 会議に参加しました。その概要について以下に報告します。

JLPA 専務理事　三木常一

1. **開催国**　：Korea　韓国
2. **開催場所**：The - K Seoul Hotel、Seoul
3. **開催期間**：June 26 －28, 2013
4. **参加国**　：　16 カ国　＊下表参照　　第 7 回成都会議 November, 2011　30 カ国　主催者発表
5. **参加人員**：183 名　　〃　　〃　〃　〃　,2011　250 名　〃　〃

APL 2013 Seoul　：　**Participant List**

	Participating nation	the number of Participants	備　考
1	Belgium　：ベルギー	1	
2	Brazil　：ブラジル	1	
3	**China　：中国**	**39**	
4	France　：フランス	2	
5	Germany　：ドイツ	3	
6	Hong Kong　：香港	2	
7	India　：インド	1	
8	**Japan　：日本**	**55**	
9	**Korea　：韓国**	**57**	主催国
10	Malaysia　：マレーシア	7	
11	Philippines：フイリピン	1	
12	Russia　：ロシア	1	
13	Singapore：シンガポール	3	
14	Thailand　：タイ	4	
15	United Kingdom：英国	2	
16	ＵＳＡ　：アメリカ	4	
	Total	**183 名（参加者数）**	

6. **論文発表**：Oral presenntation　86 (147) 件　　Poster presentation 26(57) 件
   内、日本人の論文数　33 (20) 件
   注（　）＝2011, 成都会議の実績

論文発表一覧表

	the Subject of the Paper 論文主題	Speaker 発表者	
	＊Keynote Speech		
1	Electromagnetic Methods of Lightning Detection	Prof. Vladimir A Rakov Florida University (USA)	
2	Lightning Protection for Power System in KEPCO	Vice President : Eung-Bo Shim KEPRI (韓国)	
3	Impulse Characteristics of Soil and Ground Devices	Prof. Jinliang He, 清華大学（中国）	
4	Future Technology Development Direction for Lightning Protection System with Global Warming	Dr. Young-Ki Chung : OMNI LPS Co. Ltd., (韓国)	
5	Lightning Protection Design of Wind Turbine	Prof. Shozo 関岡 : 湘南工大 (日本)	
6	The Impact of the Frequency Dependence of Soil Resistivity and Permittivity on the Lightning Performance of Transmission Lines.	Dr. Silverio Visacro Federal University of Minas Gerais. (Brazil)	
	＊Oral & Poster Presentation	発表論文総数	内：日本人論文
	the subject of the paper : 論文主題	( ) =Poster	
1	LPDE (Lightning Protection Devices)	6 + (3)	3
2	LEMP (Lightning Electromagnetic Impulse(LEMP) and Lightning-induced Effects)	8 + (3)	5
3	LDCE (Lightning Down-Conductors and Earthing 1)	7 + (5)	3
4	LDCE (〃 〃 〃 2)	7	3
5	LDAD (Lightning Discharge and Detection)	5 + (5)	1
6	LDIA (Lightning Detection and Its Application)	7	1
7	LPES (Lightning Protection of Electronic Systems) LPRS of Railway Systems LWSS(Lightning Warning System and Safety)	8 (1) (1)	6
8	LPPS (Lightning Protection of Power System 1)	5 + (4)	2
9	LPTS(Lightning Protection and Lightning Testing Standards or Guideline)	7 +(3)	1
10	LPPS(Lightning Protection of Power Systems 2)	8	4
11	PSLP(Practical and Specific Lightning Protection Problems 1)	4	
12	PSLP(as above Problems 2)	5	
13	LPRE(Lightning Protection of Renewble Energy Systems and Smart (Grids)	4 + (1)	3
14	LIAT(Lightning Attachment)	5	1
	合計	86 件＋(26 件)	33 件

（　日本人が発表した論文　）

論文主題	発表論文のテーマ	発表者（大学・企業名等）
LPDE	Development of a High Withstand Voltage Isolator for LAN	Sankosha Corporation
	Preventing Lightning Strikes to the Protected Objects	Hitachi Critical F, P,
	Effect of Design and Manufacturing Process of Metal Oxide Varistors for AC and DC Ageing Performance	Ceraon Co., Ltd.
LEMP	Insulator Voltage on Distribution Line due to Lightning-Induced Voltage and Ground Potential Rise	Shonan Institute of Technology
	CIP-based Study of the Influence of a Tall Structure on LEMPs with a New Engineering Model of the Lightning Return Stroke	同志社大学
	Development of Lightning Electromagnetic Barrier Technology	大成 Corporation
	Influence of Corona on Lightning-Induced Voltages：FDTD Calculations	同志社大学
	Investigation of Lightning Damage on Houses and Historical Buildings due to Winter Lightning	Sankosha Corporation
LDCE	A Study on Lightning Impulse Withstand Curent Characteristics of House Foundation Concrete	Kawamura Electric Inc.,
	Test Results of Lightning Impulse Current Applied to Threaded-rebar joints and Mortar-groutedjoints	SHODEN Corporation
	Study on Transient Grounding Resistance with Rod-plane Electrode in Soil by Lightning Impulse	工学院大学
LDCE	Effective Installation of Bonding Wires for Rubber Insulators of a Seismic Isolated Building Taking into Account Lightning Distribution	Kinden Corporation
〃	Performance of Reinforcing-steel with Threaded-reber joints and Mortar-grouted joints used as Down conductors for Lightning Protection	Obayashi Corporasion
〃	The Investigation of the Typical Grounding System of Wind Turbines and Transient grounding Characteristics in Japan	Shoden Corporation
LDAD	Return-stroke Current Parameters Dependent on Season and Region observed by JLDN	静岡大学：Franklin Japan
LDIA	A Study on the Location Accuracy of Winter Lightning Located by JLDN in the Coastal Area of Tohoku Region	Franklin Japan
JPES	Investigation Result of Damages covering a Wide Area caused by Einter Lightning	Shoden Corporation
〃	Lightning Damage Investigation of Automabiles and Necessity of Lightning Protection	Shoden Corporation
〃	Development and Implementation of the Smart SPD System	Sankosha Corporation
〃	Measurement of Lightning Current and Partial Current on a Radio Broadcasting Satellite in Hokuriku	Kaela R&D Inc.,
LPRS	Methodology to Estimate the Possibility of Lightning Hazard on Railway Signaling Systems	Railway Technical Research Institute
LWSS	Model Experiments of Lightning Strikes to Human Bodies	CRIEPI

（ 日本人が発表した論文 ）

論文主題	発表論文のテーマ	発表者（大学・企業名等）
LPPS	Surge Protective Device Fuse Disconnectors and thier Application Principles	NTT Facilities
〃	Study on Fault Ratio of 6.6 kv Overhead Power Distribution Lines Considering Insulation Sparkovers as Well as Surge Arrester Damages	静岡大学
LPTS	Fundamental Study of Lightning Impulse Examination and Evaluation to LED Lightning Fittings	Polyechnic University
LPPS	Characteristics of Lightning Outages of Power Distribution Lines in the Kyushu Region of Japan	CRIEPI
〃	Sparkover Rate of Horizontally and Vertically Configured Overhaed Distribution Lines due to Direct Lightning Strokes	静岡大学
〃	Simulation of Lightning Current on Power Distribution Line due to Ground Potential Rise	静岡大学
〃	Researches Using Simple Topology for Thunderbolt-struck Alternating Power Line Voltage	Aichi Institute of Technology
LPRE	Measurement of Transient Grounding Characteristics of a Wind Turbine Generator System in Mountainous Area	中部大学
〃	Lightning Accidents at a Wind Firm and Operated Protection Methods	中部大学
〃	the Effect of Overhead Ground Wiews of a Lightning Protection System for a Wind Turbine Generator	Onuma Design Co.,
UIAT	A Development of a Rogowski Coil to Observe Shunt Lightning Current	Shoden Co., 中部大学
	注： 日本人が発表した論文は以上のとおり**「33 件」**である。	
	論文発表者は、Presentation List に記載されている 一番目の企業名又は大学名を掲載した。	

7. 次回第９回 APL2015 開催予定：下記のとおり決定しました。

主催国：日本

開催日：2015 年 6 月 23 日～26 日予定

開催地：名古屋市

８.現況写真

会議場等の現況写真を以下に示す。　2013 年 6 月 26 日

写真１　会議場：The-K Seoul Hotel の全景

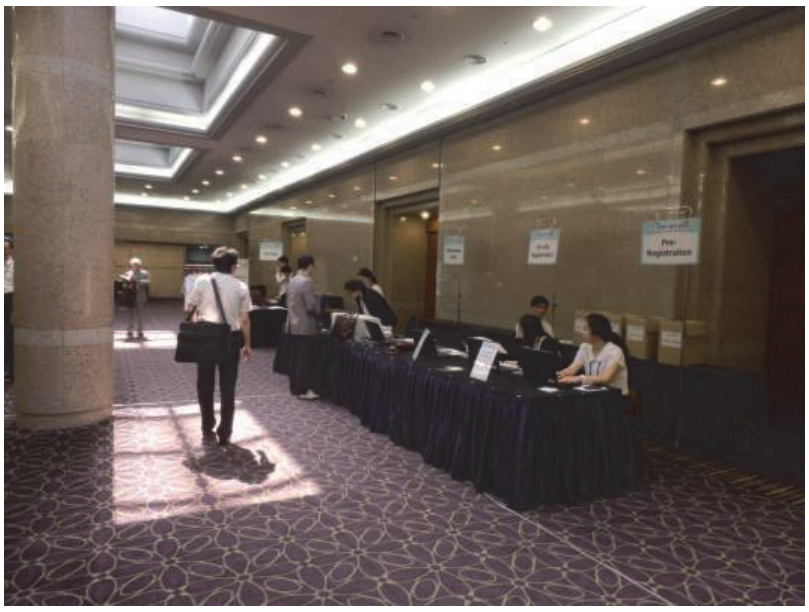

写真２　Registration desk（受付）

写真 3
APL SC Chair person
Prof. Shigeru Yokoyama（Japan）

写真 4
APL2013 Seoul
Conference Chair person
Dr. Kihong Lee

写真 5
論文発表会場