

★機構デバイス研究会 (EMD)

専門委員長 関川純哉 副委員長 久我宣裕

幹事 服部康弘・阿部宜輝 幹事補佐 和田真一

日時 11月29日(土) 9:50~18:00

30日(日) 9:30~16:20

会場 千歳市民文化センター(千歳市北栄2-2-11. JR千歳駅から徒歩5分, ANAクラウンプラザホテル千歳の隣.)

<http://www.chitosebunka.jp/center/map/index.html> TEL [0123] 27-6059 長谷川誠(千歳科技大)

議題 国際セッション IS-EMD2014

29日午前

1. [招待講演] Electric contact phenomena in Medium High Voltage DC Circuit Breakers
○Mingzhe Rong・Yi Wu・Fei Yang (Xi'an Jiaotong Univ.)
2. Restriction on moving of break arcs magnetically blown-out by surrounding walls
○Keisuke Kato・Junya Sekikawa (Shizuoka Univ.)
3. Moving characteristics of cathode bright spots of break arcs occurring between electrical contacts
○Shingo Suzuki・Junya Sekikawa (Shizuoka Univ.)
4. Experimental study on the behaviors of arc-root by using separate mesh electrodes
○Liu Hongwu・Yin Nairui・Xie Xinyi・Zhu Tiansheng・Guan Ruiliang (Changshu Switchgear Mfg.)

29日午後

5. [招待講演] Welding in separation of electrical contacts
Yang Xiaocheng・Liu Jinyou・Wang Qian・○Li Zhenbiao・Cai Bingbing・Wang Danjiang (Huazhong Univ. of Science and Tech.)
6. Experimental Study on Feature of Molten Bridge of Silver Based Contacts under Slow Separation
○Xinyun Zhang・Xue Zhou・Mo Chen・Rui Li・Guofu Zhai (Harbin Inst. of Tech.)・Xinwen Huang (GLESI)
7. Formation Process of Intermittent Molten Bridge between Au-plated Contacts at Super Slow Breaking Velocity
Wanbin Ren・○Yu Chen・Cheng Chang (Harbin Inst. of Tech.)・Guenther Horn (ElConMat Consulting Associates)
8. Enhance Electromechanical Properties of Compliant Electrode by Adding Ionic Electrolyte in Natural Rubber Latex
○Nuchnapa Tangboriboon・Surarit Samattai・Rujika Takkire (Kasetsart Univ.)・Anuvat Sirivat (Chulalongkorn Univ.)
9. [招待講演] Study of nanosecond laser produced plasmas in atmospheric air
○Xingwen Li・Jian Wu・Wenfu Wei (Xi'an Jiaotong Univ.)・Qian Wang (Xi'an Univ. of Tech.)
10. Characteristics of break arcs between contacts with arc runner
○Haruki Miyagawa・Kojun Konishi・Junya Sekikawa (Shizuoka Univ.)
11. Occurrence of Reignition of Break Arcs when Moving Range of Arc Spots are Restricted within the Contact Surfaces
○Kojun Konishi・Junya Sekikawa (Shizuoka Univ.)
12. Comparisons on Arc Behavior and Contact Performance between Cu and Cu-Mo Alloys in a Bridge-type Contact System
○Mo Chen・Xue Zhou・Guofu Zhai (Harbin Inst. of Tech.)
13. 過渡電流スイッチ回路を適用したアークフリー直流ヒューズの設計法に関する基礎検討
○原 大介・若月 昇(石巻専修大)
14. 開閉するクロスロッド電極における物理現象の有限要素法解析—機械的接触, ジュール熱, ロレンツ力の静的解析—
○石垣雅輝・若月 昇・高津宣夫(石巻専修大)
15. Effect of Silver Content of Ag/C Brush on Contact Resistance under Sliding Contacts With Silver Coated Slip Ring and Ag/C Brush
○Mifuyu Fuchimoto・Koichiro Sawa・Takahiro Ueno (Nippon Inst. of Tech.)
16. Influence of the lubricant on the Sliding Contacts of Au Brush and Au Coating Slip Ring for Current Power Supply
○Yutaka Takemasa・Koichiro Sawa・Takahiro Ueno (Nippon Inst. of Tech.)

30日午前

1. [招待講演] Correlation between load current mode and contact resistance of a closed pair of contacts
○Wanbin Ren・Hai Wang・Chenghuan Liu・Yu Chen (Harbin Inst. of Tech.)・Jian Song (OWL Univ. of Applied Sciences)
2. The influence of temperature and pressure on the contact resistance and its application in thermal analysis of low voltage circuit breaker
○Chunping Niu・Hui Chen・Yi Wu・Junxingxu Chen・Juwen Ding (Xi'an Jiaotong Univ.)
3. decreases with lapse of time of electrical contact resistance of silver contacts

○Keita Miyashige・Junya Sekikawa (Shizuoka Univ.)

4. Distribution of composition on Ag anode surfaces heated after occurrence of break arcs

○Tomoyuki Atsumi・Junya Sekikawa (Shizuoka Univ.)

5. Observation and Analysis of Cathode Surfaces Being Affected by a Break Arcs

○Masato Nakamura・Junya Sekikawa (Shizuoka Univ.)

30 日午後

6. Study of the electrode erosion characteristics in low voltage circuit breaker

Shuai Yuan・○Xingwen Li・Jianyue Qu・Gang Wu (Xi'an Jiaotong Univ.)

7. A comparison of three radiation models in the modeling of fault arc

○Mei Li・Mingzhe Rong・Yi Wu・Yifei Wu・Junpeng Zhang・Yang Hu・Yang Li (Xi'an Jiaotong Univ.)

8. Combined flow field calculation for the simulation of Thomson-type high-speed actuator

○Yifei Wu・Mingzhe Rong・Yi Wu・Fei Yang・Mei Li・Yang Hu (Xi'an Jiaotong Univ.)

9. コネクタ接触不良によるインダクタンス増大のメカニズムに関する基礎検討

○佐藤友哉・林 優一・水木敬明・曾根秀昭 (東北大)

10. Investigation of the current on the wear area of Au-Au/MWCNT contact pair

○Hong Liu・John W. McBride (Univ. of Southampton Malaysia Campus)・Chamaporn Chianrabutra (Univ. of Southampton)

11. An Evaluating Method for Fundamental Dynamical Parameters of Objects on a Printed Circuit Board (PCB) (7)

—The effect by application time of external force—

○Shin-ichi Wada・Keiji Koshida・Hiroaki Kubota (TMC System)・Koichiro Sawa (Nippon Inst. of Tech.)

12. An Evaluating Method for Fundamental Dynamical Parameters of Objects on a Printed Circuit Board (PCB) (8)

—An evaluation of dynamical parameters—

○Shin-ichi Wada・Keiji Koshida・Hiroaki Kubota (TMC System)・Koichiro Sawa (Nippon Inst. of Tech.)

13. Influences of contact opening speeds on break arc behaviors of Ag and AgSnO₂ contact pairs in DC load conditions

○Nanami Ohkawa・Hiroya Sonobe・Makoto Hasegawa (Chitose Inst. of Science and Tech.)

14. OPC server for DOMIQ building automation system

○Arkadiusz Ambroziak・Piotr Borkowski・Adrian Sienicki (LUT KAE)

◆継電器コンタクト・テクノロジー研究会共催

☆EMD 研究会今後の予定 [] 内発表申込締切日

12月19日(金) 機械振興会館〔締切済〕テーマ：一般

1月23日(金) 富士通アドバンステクノロジー〔未定〕テーマ：一般

【発表申込先】 下記研究会発表申込システムからお申込み下さい。

<http://www.ieice.org/jpn/ken/kenmoushikomi.html>

【問合先】

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◎EMD 研究会に関する最新の情報は、<http://www.ieice.org/es/emd/jpn/>を御参照下さい。