

Thermal Management Materials, Devices, Processing Technologies and Packages (TM)

Oral Presentation

Nov. 7, 2011 (Mon.)

TM (Thermal Management Materials, Devices, Packages, and Processing Technologies)

Udo

Chair: Dr. Hyo-Tae Kim (Korea Institute of Ceramic Engineering and Technology, Korea) 15:00-16:30

- TMIS** **Morphological Control of High Thermal Conductive Ceramic Materials**
 15:00-15:30 Chang-Yeol Kim¹, Kwang-Yeoun Cho¹, Dang Thi My Linh^{1,2}, Hyo-Tae Kim¹, Jong-Hee Kim¹, Dae-Ho Yoon², Huh Seun-Hun¹, Kim Ji-Hoon¹, Yoon Young-Jun¹
 Invited Speech ¹Korea Institute of Ceramic Engineering and Technology, Korea, ²Sungkyunkwan University, Korea
- TM785** **Thermal Transient Measurement of LED Heat Sinks of Different Surface Coatings and Materials**
 15:30-15:50 Hyun Min Cho, Min-Sun Kim
 Korea Electronics Technology Institute, Korea
- TM1644** **Die-Pasting Material Dependence on the LED-Performance Characteristics**
 15:50-16:10 Hyun-Ki Lee, Jong-Won Park, Jin-Chul Kim, Min-Jung Park, Seon-Ho Jang, Ja-Soon Jang
 Yeungnam University, Korea
- TM216** **High Power LED Packages with Ceramic Thick Film Process**
 16:10-16:30 Yu Jin Heo^{1,2}, Kyung Jun Kim¹, Young Joon Yoon¹, Jihoon Kim¹, Sahn Nahm², Hyo Tae Kim¹
¹Korea Institute of Ceramic Engineering and Technology, Korea, ²Korea University, Korea

Poster Presentation

Nov. 7, 2011 (Mon.)

TMP (Thermal Management Materials, Devices, Packages, and Processing Technologies) Poster Presentation

Lobby 8F

Chairs: Dr. Hyo-Tae Kim (Korea Institute of Ceramic Engineering and Technology, Korea) 13:30-15:00
 Dr. Chang-Yeoul Kim (Korea Institute of Ceramic Engineering and Technology, Korea)

- TM1689** **A Study for Reducing Power Consumption on Si Crystal Growth for Solar Cell, using Czochralski Method**
 Unnoh Lee, Wonshoup So, Jae Hak Jung
 Yeungnam University, Korea

Thermal Management Materials, Devices, Processing Technologies and Packages

TM1466 Numerical Simulations for Interfacial Property Optimization in Multilayered Barrier Films

Soojung Kim, Lan Hee Yang, Sangil Hyun, Eunhae Koo, Youngsoo Lim, Seung-Hun Huh
Korea Inst. of Ceramic Eng. & Tech. (KICET), Korea

TM1281 Aerosol Deposition of AlN Thick Films for LED Package

Kyung Jun Kim^{1,2}, Yu Jin Heo^{1,3}, Chang Yeol Kim¹, Young Joon Yoon¹, Jihoon Kim¹, Sahn Nahm³, Hyo Tae Kim¹
¹*Korea Institute of Ceramic Engineering and Technology, Korea*, ²*Suwon University, Korea*, ³*Korea University, Korea*

TM1241 Microwave Sintering of Dy₂O₃-doped Aluminum Nitride

Sung-Kyoung Hong¹, Jeong-Ho Cho¹, Myoung-Pyo Chun¹, Tae-Gyung Ko²
¹*Korea Institute of Ceramic Engineering and Technology, Korea*, ²*Inha Univ., Korea*

TM1182 Sintering Behavior of Mullite Ceramic by Additives for Low Sintering Temperature

Chang-Bin Lim¹, Dong-Hun Yeo², Hyo-Soon Shin², Yong-Soo Cho¹
¹*Yonsei University, Korea*, ²*Korea Institute of Ceramic Engineering and Technology, Korea*

TM1166 Temperature Dependent Static and Transient Characteristics of 4H-SiC DMOSFETs

Min-Seok Kang¹, Byung-Hoon Oh¹, Ik-Ju Kim¹, Wook Bahng², Sang-Chul Kim², Nam-Kyun Kim², Sang-Mo Koo¹
¹*Kwangwoon Univ., Korea*, ²*Korea Electrotechnology Research Institute, Korea*

TM1164 Thermal Conductivity of Al₂O₃ / Polyvinyl Butyral Composites

Han Sae Ju¹, Dong Hyeok Im¹, Seong Dae Park², Hyeung Gyu Lee², Eung Soo Kim¹
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TM1157 Effects of Rheological Behavior of Slurries on the Characteristics of Multilayer LED Packages

Gui Nam Sun, Eung Soo Kim
Kyonggi University, Korea

TM1134 Effects of Oriented Ceramic Fillers on Thermal Conductivity of Polymer - Matrix Composites

Han-Sae Ju¹, Myong-Jae Yoo², Woo-Sung Lee², Ji-Hoon Jung¹, Eung-Soo Kim¹
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TM1116 Crystallization Behavior of Diopside/Cordierite Glass-ceramics By 2-stages Sintering Method

Yongsung Kim, Seunggu Kang
Kyonggi University, Korea

TM975 Determination of Thermoelectric Properties in Filled-skutterudite Systems by Controlling Process Variables

Jae-ki Lee¹, Soon-mok Choi¹, Won-seon Seo¹, Il-ho Kim²
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- TM883** **Effect of $\text{Al}_2\text{O}_3/\text{MgO}$ Ratio on the Thermal Properties of Cordierite-based Glass-ceramics for LED Packaging Materials**
Si-Nae Jo, Seung-Gu Kang
Kyonggi University, Korea
- TM880** **Fabrication of $\text{Al}_2\text{O}_3/\text{ZnAl}_2\text{O}_4$ Composites using 2-step Heat Treatment Processes**
Mina Kang, Seunggu Kang
Kyonggi University, Korea
- TM876** **Characterization of AlN Thin Films Grown on c-plane Sapphire by Pulsed Laser Deposition**
Jun-Ki Chung¹, Won-Jeong Kim², Sang-Yeup Park¹
¹*Gangneung-Wonju National University, Korea*, ²*Changwon National University, Korea*
- TM805** **Preparation of Alumina Nanotube Filler by Anodizing Process**
Youngrok Lee¹, Yongho Yoon¹, Jinho Choi¹, Youngjin Kim¹, Eungsoo Kim¹, Woosung Lee², Seongdae Park², Jihoon Jung¹
¹*Kyonggi University, Korea*, ²*Korea Electronics Technology Institute, Korea*
- TM801** **Electrical and Thermal Properties of Epoxy/Silicone Hybrids Filled with Silver Nanoparticle and Graphene Oxide**
Gwang-Seok Song, Dai-Soo Lee
Chonbuk National University, Korea
- TM647** **Liquid Crystalline Thermosets with High Thermal Conductivity by Anisotropic Alignment of Network Structures**
Ho Sun Lim, So Yeon Kim, Jin Woo Oh, Dong-Seok Seo, Myong Jae Yoo, Woo Sung Lee, Seong Dae Park
Korea Electronic Technology Institute, Korea
- TM462** **Experimental Investigation on Thermal and Mechanical Properties of Aluminum Nitride Thick Film**
Min-Sun Kim, Hyun Min Cho
Korea Electronics Technology Institute, Korea
- TM177** **Optimization Design of Motor Block Resistor for High Speed Train Through Component Analysis**
Dae-Dong Lee¹, Jae-Myung Shim², Dong-Seok Hyun¹
¹*Hanyang University, Korea*, ²*Hanbat National University, Korea*
- TM175** **Surface and Component Analysis of ACSR Deteriorated by High Temperature**
Dae-Dong Lee¹, Jae-Myung Shim², Young-Dal Kim²
¹*Hanyang University, Korea*, ²*Hanbat National University, Korea*
- TM58** **Optimal Design of GaN Power MOSFET using Al_2O_3 Gate Oxide**
Ey Goo Kang, Tae Jin Nam, Hun-suk Chung
Far East University, Korea

ICAE 2011

Informational Announcement:

ICAE2011 Green Energy Forum

November 8

Rm. #1, Ramada Plaza Jeju Hotel, Jeju, Republic of Korea

(Official Language: Korean)

Objectives

The aim of the ICAE2011 Green Energy Forum is to provide opportunity for share recent information on green energy field including policy, technology, trend and current state of industry. The forum also wants to provide a method of linking student employment with corporations. And then, the perspectives of the green energy industry and effective student employment linkage will be discussed by the panels. Moreover, this forum will try to provide the participants from public organizations, universities, research institutes or related corporations with possibilities for understanding to overcome the present situation that we meet across the economic regions domestically and beyond the country to the world.

Forum Agenda

The theme of the forum is the perspectives of the green energy industry and effective student employment linkage. Presentations will be provided by two professionals for each topic closely related to the theme. One is the perspectives of the green energy industry, the other is effective student employment related to the corporations of corresponding industry. The panels including speakers, directors of GEERC and GEC, professionals will conclude through discussion.

Program

16:45-17:00 Registration

17:00-17:05 Opening Statement and Welcoming Address

17:05-17:55 Presentations

I: Perspectives of the Green Energy Industry

II: Effective Linkage of Student Employment with Corporations

17:55-18:40 Panel Discussion

Theme: Green Energy Industry Perspectives & Effective Student Employment Linkage

18:40-19:00 Q&A

19:00 Closing Statement

※ Only for the person invited, dinner meeting is provided, if available.

DIRECTORY OF EXHIBITORS

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Since the company's inception in 2000, we are supplying test systems internationally to the high tech industries accommodating their specific requirements from design through various functional needs. Now, we provide the test instruments for research scale instrument and of the quality control of manufacturing plants in the area of Solar Cell, LED and OLED.

Our professional R/D teams constantly develop new technology and simultaneously communicate with customers helping them to insure that our custom designed testing system would work flawlessly at any moment. Our testing systems are the premier instrument in terms of reliability, accuracy, user friendly software and industrial design.

We promise to keep continuous innovation and challenge to new technology with a spirit of young venture enterprise. We also pursue to be a good neighbor and well as want to contribute to well being of society.

We are humble to listen your suggestion.

Thanks.

KEPCO KDN

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KEPCO KDN offers the best value and opportunity to all interested parties, including our clients, shareholders, subcontractors, and employees, with our vast experience and by creating enterprise value with the best technology.

Our goal is to ensure the success of our customers and to provide creative services that present new opportunities for customers' success

Description of our Exhibits

Intelligent systems technology, integrated sensor and converts converged devices, and

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diagnostic and control technologies and advanced devices based on domestic power generation power grid By providing key element for building and domestic power equipment industry's export-led industrialization.

• For research and development

- GIS IBU (Intelligent Bay Unit, Intelligent Field Operation Unit) Development
- GIS integrated sensors(Pressure, Pressure Wave, Temp, CNT) and sensors for the compact Micro-net for communication development
- GIS developed for the intelligent modules (protection, control, power quality, monitoring, diagnostic module)
- Intelligent GIS and facility management and maintenance support system design
- Performance verification and certification exam

• Benefits

- To develop intelligent power devices Smart-grid can be implemented early
- High Voltage GIS market share of international competitiveness in the world can be improved
- High-pressure operation and maintenance of GIS equipment cost
- Green Power IT unit led to the development

HANAUTECH . Co, Ltd.

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HANAUTECH Co., Ltd is a company specialized in developing and manufacturing piezoelectric ceramic based ultrasonic motors and produces electro-ceramics and electronic components. With its own technology, this company has successfully developed piezoelectric ceramic ultrasonic motors that are installed in the interchangeable lenses of DSLR cameras and, currently, is producing motors used for 60 mm and 85 mm interchangeable lenses, which are supplied to Samsung electronics. This was the result of the company's development capacity and manufacturing system that have been verified and the installation of very strict and rigorous test processes. Further advancement in technical skills in the area of piezoelectric ceramic ultrasonic motors is expected. HANAUTECH is committed to the continuous development of piezoelectric ceramic ultrasonic motor related technologies and the production of the best products that

meet customer requirements.

What is a piezoelectric ceramic ultrasonic motor?

It is considered as a next generation motor that is driven by converting the vibrational energy generated by applying electric field to piezoelectric ceramic into rotational or linear movement and is drawing attention as a low-power consuming driving source in electric, electronic and mechanical areas.

- Ultrasonic Motor special
 1. low-speed and high torque
 2. not affected by magnetic field and high frequency
 3. not necessary reduction gear and possibility weight lightening
 4. possible rotating and linear movement
 5. detail positioning control (< 1um)
 6. quickly response time (0.5ms)
 7. not back lash



AT Frontier Co., Ltd.

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Leading the way in electromaterial research instrumentation, AT Frontier has been at the forefront of providing laboratories with the best possible instrument solutions. Focusing on innovation, performance, and price, we work hard to provide the widest variety of products to fit every need.

“AT Frontier Co. Ltd” is an affiliated company of Youngin Scientific Co. Ltd. and started the business from February 2008 with the purpose. We play the role of “Solution Provider” to provide “MAXIMIZE THE **BENEFIT OF THE CUSTOMER**” through “BUSINESS STRUCTURE CENTERING THE **CUSTOMERS**”.

We, **AT Frontier**, do our best as follows to achieve our objects..

- The Development of the **Solution** in the customer’s views

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- The Development of innovative products and service for the creating customer's value and benefit
- The Maximization of our organization for the customer's benefit from our products and service
- The Continuous Supplement of products and service with sustained management

We, **AT Frontier**, will maintain the "Innovation" to be "Your Partner" with not only providing the newest and highest products but also the solution met customer's needs.

Green Energy Education & Research Center, Yeungnam University

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Green Energy Education and Research Center(GEERC) at Yeungnam University was established in 2009 with a goal to train and supply high quality human resources for green energy industry, in accordance with the Korean government's plan to develop new leading industries. The center has received 17,756 million KRW for 3 years from June of 2009 to February of 2012 from the government organization(Ministry of Education, Science and Technology, MEST), the municipal governments(Gyeongsan city and Gyeongbuk province), the regional corporations related to green energy industry and matching fund from Yeungnam University. Moreover, the GEERC showed dominant outcomes for last 2 years. After completing projects of 2009 and 2010, the center was rated "Outstanding" among 21 centers for leading industry development, by the evaluation committee of National Science Foundation. As a result, the center received additional fund of 958 million KRW as incentives in two consecutive years.

In the meantime of progressing the third but last year of the first stage of the human resource development project for the leading industry of the expanded economic regions, we would like to show and share the programs and the outcomes of the center with related organizations, professionals and participants of ICAE2011 from domestic and overseas.

Dae-Gyeong Leading Industry Office

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The Dae-Gyeong Leading Industry Office was recently established in July 2009, after long terms of planning and discussion between MKE (Ministry of Knowledge Economy) and regional economic districts, in order to find out new industries of high value for new growth engine industries and to intensively promote them, which are appropriate for Dae-Gyeong economic region which will lead Korea in the future.

We have selected Green Energy industry and IT-compounded industry as leading industries of Dae-Gyeong economic region, because they are effective industries for the local property and nowadays tendency that environmental and intelligency-based industries are being spot-lighted. Thus, we have designated our projects as the national project to construct global hub of hydrogen fuel cell and the national project to strengthen the global competitiveness of PV parts & materials as green energy industries, and global competitive power strengthening project of IT convergence medical devices and foundation strengthening project for commercialization of IT convergence pragmatic applied robots as IT convergence industries.

We promise you that we will be the DAE-GYEONG LEADING INDUSTRY OFFICE which can accomplish the activation of economy of Dae-Gyeong economic region and the development of industrial structure.

Solar Cell Materials and Process R&D Workforce Cultivation Program

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The SCMP (Solar Cell Materials and Process R&D Workforce Cultivation) Program at Yeungnam University is established in November, 2010 as a participating organization of Energy Workforce

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Development Project by Korean Ministry of Knowledge Economy, and funded by KETEP for the next 5 years. The goal of SCMP is to cultivate R&D workforce in the field of photovoltaics for the development of materials and processes related with solar cell. SCMP will perform creative and innovative research and technology development which will lead to the creation of new growth engines in renewable energy area for regional and national economy development.

The photovoltaic (PV) industry is an environment-friendly and sustainable energy resource, and it is expected to become a new growth engine of Korean economy with its high value-addedness when properly combined with the existing world-leading semiconductor and display technologies in Korea. However, PV industry in Korea lacks in skilled workforce to pursue this mission of developing core technologies in the PV area, and urgently need the workforce. Therefore, SCMP is performing a variety of R&D activities in PV area by the expert group of professors specializing in solar cells. The SCMP will deliver world-class R&D workforce suited for PV industries in Korea for developing core materials and process technologies.

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Kumoh National Institute of Technology had the good opportunity to achieve our dream of the visions to be the preeminent Korean science-technology university for a new leap forward, for training and producing excellent creative graduates, and for working together with its local community. Our university joined Green Energy Part on June, 2009 in the Ministry of Education, Science and Technology project, which is named as "6 Economic Regions 12 Leading Industries". The period of this project is from 2009 to 2011, and the center spends \5 billion per year. This project consist of leading industries on a solar and hydrogen fuel cell, 2 involved departments and 5 majors in the university, 145 organizations and businesses. Our university is contributing its best to create the global competitive economic region by training and producing excellent talents for the development of the leading industries, connected with the government project of Economic Region New Growth Leading Industries Development Plan.

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Samwha Capacitor is leading the digital revolution in the energy storage, electronics and telecommunication industry. Our lines of products include high value capacitors such as Power Capacitor, MLCC, EMI Filter, Chip Inductor, MLV, Ultra High Voltage MLCC, Supercapacitor.

In order to address the challenges of the New Millennium, we have aggressively pursued a global network strategy, have implemented ERP system as a means to streamline domestic and international business, and are currently in the process of making Six Sigma values our corporate value.

Samwha Capacitor is doing its utmost to become the world's industry leader as we grew into the 21st century.

Nextron Co.

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LABSYS RTP-1200 is a RTP system that is produced for researchers who want reliable operation with a compact size at economic prices. It can rapidly achieve a maximum temperature of 1200°C by using 4 tungsten halogen lamps and can be used in a wide range of research purposes. In addition, various ambient gases are diffused easily.

LABSYS LIT-2000 can ensure uniform contact of photo-mask during the photolithographic process and can achieve a resolution of 1µm. In addition, the system is easily accessible for changing photo-masks and substrates. It's compact size and economic prices are ideal for smaller research group.

LABSYS MWB-6000 is a precise Ohmic contact device that easily cures and wires to micro electrode patterns with a conductive epoxy. It consists of a microscope, micropositioner, needle, needle holder, ceramic heater and controller. A well noted feature of the LABSYS MWB-6000 is the precise position control and precise Ohmic contact without moving a sample in a very short time in the same place.

CONTRIBUTORS TO ICAE2011

The ICAE2011 Organizing Committee wishes to express heartfelt thanks to the following corporations and research institutes for their support and contribution.

The Korean Federation of Science and Technology Societies

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Solar Cell Materials and Process R&D Workforce Cultivation Program

Green Energy System Education Center, Kumoh National Institute of Technology



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