IMID 2007
7th International Meeting on Information Display

August 27-31, 2007
Daegu Exhibition & Convention Center (EXCO), Daegu, Korea

Abstract Submission Due Date: March 15, 2007
Digest Paper Submission Due Date: June 30, 2007

Co-organized by
The Korean Information Display Society (KIDS)
Society for Information Display (SID)
Electronic Display Industrial Research Association of Korea (EDIRAK)
The Electronic Times
DisplaySearch
United States Display Consortium (USDC)
Korean Agency for Technology and Standards (KATS)
International Meeting on Information Display (IMID 2007) will be devoted to the researches and developments on information display devices along with business issues of information display industries. This IMID 2007 conference is the 7th meeting and has been successfully bringing together researchers, engineers and business men involved in the information displays. The IMID 2007 is co-organized by Korean Information Display Society (KIDS), Society of Information Display (SID), Electronic Display Industrial Research Association of Korea (EDIRAK), The Electronic Times, DisplaySearch, United States Display Consortium (USDC) and Korean Agency for Technology and Standards (KATS). The conference will be held in Daegu, Korea, on August 27-31, 2007.

Recently, information display industry is undergoing tremendous changes owing to innovations and advances in technologies as well as business environments. The main aim of IMID 2007 is to provide a forum for discussing the latest researches and developments and to allow researchers and developers working on different aspects to get together and interact each other. This should eventually lead to effective advancements in research and development, business understanding of information display.

We invite academic as well as industrial participation in the technical sessions of IMID 2007. Contributions are solicited on all aspects of sciences and technologies of information display and neighboring fields. Contributions on recent advances in device technologies and related display electronics, manufacturing, materials and components, and applications of major displays including LCD, PDP, OLED, Slim CRT and FED, Flexible Displays and E-paper, 3D and large area displays are particularly welcome. For a detailed list of potential topic areas visit our conference web page at http://imid2007.k-ids.or.kr.

IMID 2007 will also include workshops (August 31) and tutorials (August 27), and a business forum (August 27). The business forum will be co-organized with DisplaySearch and will provide accurate market analyses as well as dependable predictions for future trends of information display. In addition, IMID 2007 Exhibition in concert with EDIRAK will provide the best opportunity for exhibitors to reach a large and diverse audience of information displays.

We will strive to prepare IMID 2007 more stimulating and meaningful conference, workshop, business forum and exhibition. I wish your participation to this important event and look forward to seeing you and your work at IMID 2007 in Daegu, Korea.

Ki-Woong Whang
IMID 2007 Conference Chair
Seoul Nat’tl Univ. (Korea)
Hee-Gook Lee (LG Electronics, Inc., President and Chief Technology Officer, Korea)

Dr. Hee-Gook Lee has been President of LG Electronics (LGE) since 2003, and is currently the Chief Technology Officer (CTO). As a CTO, he is responsible for the company’s R&D activities of over 12,000 engineers, and is involved with decisions made with all key technology, product developments of the Corporation. He serves as a member of the Board of LG.Philips LCD Corporation. Before joining LG Electronics, he was an engineering supervisor at Hewlett-Packard Company, USA.

He received his B.S. degree in Electronics Engineering from Seoul National University, Korea and M.S. and Ph.D. degrees in Electrical Engineering from Stanford University, U. S. A., respectively. He has been an active contributor in planning, budgeting and reviewing of Korean National R&D programs. He also served as a member of National Science and Technology Council which is chaired by the President of Republic of Korea.
Final Call for Papers

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optical enhancement techniques, full color techniques, OLEDs for lighting, characterization of the device performances and analysis of interface etc.

OLED Devices; Organic Materials (small molecules, dendrimers, and polymers) and Processes; OLED Display Manufacturing; Encapsulation Technologies; Characterization; Driving methods; Solution Processible Materials, OLEDs for Lighting

Chair
Lee-Mi Do (ETRI, Korea)
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Secretary
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Julie Brown (Universal Display Corporation, USA)
Jermy Burroughes (CDT, UK)
Chin H. (Fred) Chen (Nat'l Chiao Tung Univ., Taiwan)
Antoine Kahn (Princeton Univ., USA)
Woo Young Kim (Hoseo Univ., Korea)
Jang Hyuk Kwon (Kyung Hee Univ., Korea)
Yongsup Park (Kyung Hee Univ., Korea)
Yong Qiu (Tsinghua Univ., China)


Scopes
All aspects of flexible displays and plastic electronics, including advances in organic materials (both small molecules and polymers), phosphors, electrodes, device structures, fabrication processes, driving methods, characterization and analysis of the device performances, etc.

Flexible LCDs; Flexible OLEDs; E-Papers; Plastic Substrates; Thin-Film Encapsulation; Electrodes and Interconnection; Processes and Manufacturing

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MunPyo Hong (Korea Univ., Korea)
Ghasan E. Jabbour (Arizona State Univ., USA)
F. S. Juang (Nat’l Formosa Univ., Taiwan)
Jacob Kou-Chen Liu (Chang Gung Univ., Taiwan)
Yeong-Gon Mo (Samsung SDI, Korea)
Chung Kwon Song (Dong-A Univ., Korea)


Scopes
Recent developments in field emission displays including advances in emitter materials, phosphors, device structures, driving methods, characterization and analysis of the device:

FED Devices; Processing; Fabrication; Glass & Glass Coatings; Emitter Materials; Phosphors; Packaging & Vacuum Technology; Modeling and Simulation; Interconnection; Processes and Manufacturing; Film Encapsulation; Electrodes and Interconnection; Processes and Manufacturing

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Ji-Beom Yoo (Sungkyunkwan Univ., Korea)

Committee Members
Young-Rae Cho (Pusan Nat’l Univ., Korea)
Byeong-Kwon Ju (Korea Univ., Korea)
Masayuki Nakamoto (Shizuoka Univ., Japan)
Yoon-Ho Song (ETRI, Korea)

[7] Ultra Slim CRTs

Scopes
Recent developments in CRTs including advances in materials, device structure, characterization, and driving methods. Structures, components, materials, and performances of Ultra Slim CRTs including 17", 19", 23" CDT and 25", 29" and 32" CPT:

Ultra Slim CRTs; Processing; Fabrication; Glass & Glass Coatings; Emitter Materials; Phosphors; Packaging & Vacuum Technology; Optical Aspects; Simulation and Modelling; Emission Physics and Beam Characteristics; Novel Devices; Driving Methods.

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Byeong-Yong Lee (+HNT, Korea)
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Friedhelm Oestrich (Engineering Consult, Germany)
Secretary
Hyun Chul Ji (Samsung SDI, Korea)
Committee Members
Hee Jong Han (Kumoh Nat’l Inst. of Tech., Korea)
Sung Hwan Kim (Hankuk Electric Glass Co., Ltd., Korea)
Chung Moon Lee (Mindisplay, Korea)
Taeguen Lee (LG Philips Displays, Korea)
Sang Yeon Moon (DYMC, Korea)

Walter Zywottek (Merck KGaA, Vice-chair of Merck Group, Germany)

Current position : General Partner and Member of the Executive Board of Merck KGaA

Professional background : 04/2004-05/2005 President and CEO of VWR International Corporation, Westchester, PA, USA
2001-04/2004 Chairman of VWR International Corporation, company of the Merck Group
1999-2000 Managing Director of Merck Eurolab, Belgium, company of the Merck Group
1998 Head of European Laboratory Distribution, Merck KGaA, Darmstadt
1994-1998 Regional General Manager North America, President and CEO of EM Industries, Hawthorne, NY, USA, company of the Merck Group
1991-1994 Head of Pigments Division, E. Merck, Darmstadt
1967-1990 Leading positions in the laboratory and specialty chemicals business of the Merck Group in Brazil and in Darmstadt

August 28 (Tue.) Morning
Specific information of the keynote address will be announced in our web page.
[8] Projection Displays

Scopes
Projection-display systems, key components and materials for applications such as TV sets, game systems, electronic cinema, desktop monitors, business presentations and training, commercial and military simulations, and medical imaging:
- Projection Systems, Components Including Light Sources and Screens; Projections Using CRTs, LCDs, and Other Light Valves; Tiled Displays; Novel Large-Area Displays

Chair
Jun Ho Lee (Kongju Nat’l Univ., Korea)
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Jong-Tae Kim (Pukyong Nat’l Univ., Korea)
Seung-Gyu Lee (LG Electronics Co., Ltd., Korea)
Chang Sik Yoo (Hanyang Univ., Korea)

[9] Display Electronics, Systems and Applications

Scopes
Progress in driving methods, driving electronics, and system design technologies for display devices and new display applications:
- Driving Methods and Circuits for Display Devices; Column Driver; Image Signal Processor; System-on-Glass (SOG) and System-on-Panel (SOP) Technologies; Display Interface Technologies; And All Other Display Electronics Technologies and New Applications

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Matsumi Kiumra (Ryukoku Univ., Japan)
Stephen Lai (Solomon Systech, USA)
Seung-Woo Lee (Kyung Hee Univ., Korea)
Dong-Gyu Liu (Feng Chia Univ., Taiwan)
Chang Sik Yoo (Hanyang Univ., Korea)


Scopes
All aspects of vision, perception, and human factors in the design, image quality, and usability of all types of visual display systems:
- 3D Display and Imaging Processing; Novel Methods of Information Transfer; Impact of Ambient Lighting on Display Performance; Spatial-Temporal Interactions in Displays; Color and Gray Scale in Visual Displays; Display Metrology

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Namho Hur (ETRI, Korea)
Takashi Kawai (Waseda Univ., Japan)
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Byoungho Lee (Seoul Nat’l Univ., Korea)
Tae-Soo Park (LG Electronics Co., Ltd., Korea)
Yasuhiro Takaki (Tokyo Agri. Univ., Japan)
Adrian Travis (Cambridge Univ., UK)


Scopes
New development of materials and components for displays including new substrate materials, active/passive materials, their properties, and fabrication methods:
- LCD Backlight; LCD Color Filters; Polarizer; Optical Films; PDP Phosphors; PDP Materials and Components; Electrode Materials; Dielectric Materials and Process; Semiconductors; Color Filters; Glasses

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Committee Members
Jeong-In Han (KETI, Korea)
Jae Kyung Kim (KIST, Korea)
Kazuhiro Kudo (Chiba Univ., Japan)
Yutaka Majima (Tokyo Tech., Japan)


Scopes
Development and application of new designs of equipment for the manufacturing, testing and measuring, manufacturing issues on the breakthrough for the display performances, cost reduction, and throughput:
- New Process Technology; Thin-Film & Thick Film Deposition; Etching; Patterning; Robotic Handling; Final Assembly; Test and Repair; Measuring Equipment; etc.

Chair
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Sang Jik Kwon (Kyungwon Univ., Korea)
Ho Nyeon Lee (Soonchunhyang Univ., Korea)
James (Jueng-Gil) Lee (CDT, UK)
Arto Maaninen (VTT, Finland)


Scopes
Development of new and novel displays, new applications:
- Novel Active-Matrix Devices and Processes; Novel Devices and Image Processing; Novel Display Applications, etc.

Chair
Byeong-Kwon Ju (Korea Univ., Korea)
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Jae Sang Ro (Hongik Univ., Korea)
Someya Takao (Univ. of Tokyo, Japan)
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+ **IMID 2007 Features**

**WORKSHOPS**
The workshops will provide in-depth analysis on fundamental and recent advances in important display technologies. The prominent leaders will be invited as speakers for the workshops of following areas:

- **AMD**
  Printing Technologies and Printable Devices
- **PDP**
  Full-HD PDP Technical Issues
- **OLED**
  Breakthrough Technology for Successful AMOLED Business
- **Flexible Displays**
  Display Modes for Flexible Displays

**TUTORIALS**
The tutorials are aimed to provide introductory courses for the newcomers to the information display technologies of following areas:

- **AMD**
  Devices for Active Matrix Displays
- **PDP**
  PDP Discharge and Driving Waveform
- **OLED**
  Understanding OLED Fundamentals: From Basic Principles to Devices
- **Display Electronics, Systems and Applications**
  Electronics in Flat Panel Displays
- **Digital Color Science and Image Evaluation**

**SPECIAL SESSION**
5th FPD International Standardization Special Session

**BUSINESS FORUM**
The business forum co-organized with DisplaySearch will provide an opportunity to analyze display market issues and to explore the potential value creation opportunities. Tentative topics of the forum are as follows:

- 2006 FPD Market Overview and 2007 Forecast

**GENERAL INFORMATION**
Outstanding manuscripts among all the submitted papers to IMID 2007 will be selected for the awards of Minister of Science and Technology (Republic of Korea) and Merck. They will be selected by the award committee based upon their originality and the technical significance to information display industry. In addition, Conference Chairman Awards for excellent poster presentation will be presented.

**Conference Location**

**About EXCO**
New gateway to the world exhibition & convention business center, EXCO enjoys new fame as a Korean model of the exhibition & convention industry along the Asia-Pacific belt, drawing attention from the global exhibition and convention business community. Serving as a premier landmark in Daegu City and Gyeongbuk Province, the EXCO building disports the harmonious lines of tiled roofs and pillars, including a canopy-styled roof beautifully shaped as an inverse arch. This landmark architecture embodies a harmony that can only be achieved with a balance between traditional design and modern construction.

**About Daegu**
Daegu is Korea’s 3rd largest city. The views of Mt. Palgong to the north and Mt. Ap-san to the south are hidden by smog less often than the mountains encircling Seoul. The area is a major textile center for Korea, producing vast amounts of cloth and clothing. It also serves as a major hub for metal and machine industries, with several manufacturing plants from the nation’s largest conglomerates. Agriculturally, the area has much farmland and is especially known for its apples.

**Official Language**
The official language of the conference is English, and all printed materials will be published in English.

**Registration**
Registration fees for conference and short courses, a registration form, and technical and general information is available on the conference web site (http://imid2007.k-ids.or.kr). Current SID and KIDS members will receive discounted rates on the registration fee.

**Conference Proceedings**
Manuscripts will be reviewed by the technical program committee and selected experts. Conference proceedings will be published in English and available at the conference.

**Sightseeing**

**Bulguksa Temple, Kyeongju**
Bulguksa Temple, built with a combination of stylish architecture, Buddhist spirit and natural surroundings, symbolizes Buddha’s land on earth. The stone layers harmonize perfectly with the different structures, such as the several halls and the statues of Buddha within them. It was designated as the UNESCO Cultural Heritage on December 6, 1995.

(Above: Dabo Pagoda located in Bulguksa Temple)

The IMID 2007 Exhibition will be held from August 29th through 31st, 2007. We expect great support and much interest from the worldwide exhibitors. The IMID Exhibition has provided the best opportunity for exhibitors in the world to reach a large and diverse participants of the information displays. In the IMID’06 Exhibition, 406 booths were exhibited by 145 companies and over 10,000 people visited the booth to find the state-of-the-art information on the latest developments in the information displays such as LCD TVs, PDPs, OLEDs, and display processing equipments, materials and components.

We expect the IMID 2007 will attract more exhibitors and attendees and provide the exhibitors a successful business opportunity.
On-line Submission using the conference website (http://imid2007.k-ids.or.kr) is essential. Please prepare your abstract/summary in Adobe Acrobat (pdf) format or Microsoft Word (doc) format for the submission. The deadline for submission of the abstract/summary is March 15, 2007. Notification of acceptance of the abstract/summary will be sent via an e-mail to the corresponding author by May 15, 2007. Authors of accepted papers will receive an instruction for the preparation of the manuscript to be published in the Technical Digest/CD-ROM of IMID 2007. The paper shall consist of four pages including illustrations, and is due June 30, 2007.

FORMAT OF SUBMISSION

The format of abstract/summary is posted at the conference website (http://imid2007.k-ids.or.kr). The abstract/summary should give a concise summary of the work, including following information.

(1) Separate Cover Letter with Abstract
   - Title of Paper
   - Full name, complete mailing address, e-mail address, telephone and fax numbers of the principal author
   - Name, affiliation, city, state, country of additional authors,
   - An abstract of 30-50 words
   - Preferred topical session (listed in this call for papers)
   - Oral / Poster presentation preference

(2) Technical Summary (maximum : 2-pages and single -column A4 format including figures and tables)
   - Objective and Background: Briefly describe the goals and background information of your work.
   - Results : Describe the results with focus on the novelty of your work.
   - Impact : Discuss the significance of your work and compare your findings with previously published work.
   - References : List major references.

The submitted abstract / summary will either be accepted or rejected based on technical merits evaluated by program committee members. The accepted manuscript might be reassigned to an oral or poster presentations of appropriate topical session at the discretion of program committee.

(3) Full Paper (maximum 4 pages) should be submitted in Adobe Acrobat (pdf) format or Microsoft Word (doc) format to be published in the Conference Digest / CD-ROM by June 30, 2007 if your abstract/summary is accepted.

FORMAT OF PRESENTATIONS

Invited oral presentation to the conference will conform to a 25-minute format (20 minutes for presentation and 5 minutes for questions and answers) and contributed oral presentations to a 20-minute format (15 minutes for presentation and 5 minutes for questions and answers). The poster session will be held on Wednesday and Thursday afternoon, August 29-30.
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**Sponsored by**
- City of Daegu
- Ministry of Commerce, Industry and Energy (MOCIE)
- Korea Display Equipment Material Industry Association (KOMEDIA)
- Ministry of Science and Technology (MoST)
- Ministry of Information and Communication (MIC)
- Merck
- Gyeongsangbuk-do
- Institute for Information Technology Advancement (IITA)
- Korea Science and Engineering Foundation (KOSEF)
- Korea Research Foundation (KRF)
- Korean Federation of Science and Technology Societies (KOFST)
- Korea Tourism Organization (KTO)
- Daegu Convention & Visitors Bureau
- Daegu MBC
- Daegu Exhibition & Convention Center (EXCO)

**+ DEADLINES & KEY DATES**

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**IMID 2007 Secretariat**
The Korean Information Display Society (KIDS)
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Web Site: http://imid2007.k-ids.or.kr