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Qingyang Xu, Changqing Xu *McMaster University*

## Session 48: Novel 3D Displays

- 48.1: **Distinguished Student Paper: A Depth-Fused Multi-Focal-Plane Display Prototype Enabling Focus Cues in Stereoscopic Displays** (Page 691)  
Xinda Hu, Hong Hua *The University of Arizona*
- 48.2: **Invited Paper: A Stereoscopic Display System for Medical Microsurgery that Utilizes a Small-Sized High-Resolution Field Sequential Color LCD** (Page 695)  
Kazuhiro Wako, Kazuo Sekiya, Hiroshi Murai, Tadashi Kishimoto, Shigeru Nakano *Aomori Support Center for Industrial Promotion*  
Ryo Mochizuki *Mitaka Kohki Co., Ltd.*  
Takahiro Ishinabe, Tetsuya Miyashita, Yoshito Suzuki, Tatsuo Uchida *Tohoku University*
- 48.3: **A Novel Touchable Floating Color Omnidirectional-view Three Dimensional Display** (Page 699)  
Xinxing Xia, Caijie Yan, Zhenrong Zheng, Haifeng Li, Xu Liu *Zhejiang University*
- 48.4: **Beam Forming for a Laser Based Auto-stereoscopic Multi-Viewer Display** (Page 702)  
Hadi Baghsiahi, David R. Selviah, Eero Willman, Anibal Fernández, Sally E. Day *University College London*  
Kaan Akşit, Selim Ölçer, Aref Mostafazadeh, Eedem Erden, Velichappattu C. Kishore, Hakan Urey *Koç University*  
Phil A. Surman *De Montfort University*
- 48.5: **Illumination Sensitive Three-Dimensional Display** (Page 706)  
Jisoo Hong *Seoul National University*  
Keehoon Hong *Seoul National University*  
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- 49.1: **Invited Paper: Emergent Oxide TFT Technologies for Next-Generation AMOLED Displays** (Page 710)  
Toshiaki Arai, Tatsuya Sasaoka *Sony Corporation*
- 49.2: **Invited Paper: A Transparent AMOLED with On-Cell Touch Function Driven by IGZO Thin-Film Transistors** (Page 714)  
Hsing-Hung Hsieh, Tsung-Ting Tsai, Chen-Ming Hu, Chia-Ling Chou, Shih-Feng Hsu, Yuan-Chun Wu, Ching-Sang Chuang, Lee-Hsun Chang, Yusin Lin *AU Optonics Corporation*
- 49.3: **Oxide TFT Scan Driver with Dynamic Threshold Voltage Control** (Page 718)  
Yong-Sung Park, Bo-Yong Chung, Chul-Kyu Kang, Seoung-Il Park, Ki-Ju Im, Jong Han Jeong, Byung-Hee Kim, Sang-Soo Kim *Samsung Mobile Display Co., Ltd.*
- 49.4: **High-Definition Top-Emitting AMOLED Display with Highly Reliable Oxide Semiconductor Field Effect Transistors** (Page 722)  
Nozomu Sugisawa, Toshiki Sasaki, Takahiro Ushikubo, Nobuharu Ohsawa, Satoshi Seo, Kaoru Hatano, Tkaaki Nagata, Shuji Fukai, Tsutomu Murakawa, Shuhei Yoshitomi, Masahiko Hayakawa, Hiroyuki Miyake, Jun Koyama, Shunpei Yamazaki *Semiconductor Energy Laboratory Co., Ltd.*  
Kenichi Okazaki, Masayuki Sakakura *Advanced Film Device Inc.*

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- 50.1: **Invited Paper: (PSD) A New Method for Optical Touch Screens** (Page 726)  
Ola Wassvik, Tomas Christiansson, Thomas Craven-Bartle, Mats-Petter Wallander  
*FlatFrog Laboratories AB*
- 50.2: **High Reliable In-Ga-Zn-Oxide FET Based Electronic Global Shutter Sensors for In-Cell Optical Touch Screens and Image Sensors** (Page 729)  
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*Semiconductor Energy Laboratory Co., Ltd.*  
Katsuaki Tochibayashi, Kenichi Okazaki, Masayuki Sakakura *Advanced Film Device Inc.*
- 50.3: **Novel Write-erasable Input Display with Memory Circuits and Photo-Sensors** (Page 733)  
Satoshi Maruyama, Takahiko Endo, Kenji Harada, Hirotaka Hayashi, Hideki Mine, Hiroyuki Kimura, Masaki Kinoshita, Hiroki Nakamura *Toshiba Mobile Display Co., Ltd.*
- 50.4: **A Virtual Touch 3D Interactive Display with Embedded Optical Sensor Array for Five-Axis (x, y, z,  $\theta$ ,  $\Phi$ ) Detection** (Page 737)  
Guo-Zhen Wang, Ming-Ching Ma, Shang-Yu Tung, Yi-Pai Huang *National Chiao Tung University*  
Hung-Wei Tseng, Jui-Chi Lo, Chung-Hong Kuo *AU Optronics Corporation*

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- 51.1: **Invited Paper: High Luminous Efficacy and Low Power Consumption Plasma TV** (Page 741)  
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*LG Electronics Inc.*
- 51.2: **Invited Paper: Improvement of Luminous Efficiency Using a New Cell Structure in ACP-DPs** (Page 745)  
Shinichiro Hori, Tomohiro Murakoso, Eishirou Otani, Kimio Amemiya *Panasonic Plasma Display Corporation*  
Ryuichi Murai *Panasonic AVC Networks*
- 51.3: **Highly Reliable Modeling of AC Plasma Display Panels with a Three-Dimensional Hybrid Simulation** (Page 748)  
Seung Bo Shim, In Cheol Song, Ho-Jun Lee, Hae June Lee *Pusan National University*  
Min Sup Hur *Ulsan National Institute of Science and Technology*
- 51.4: **Mechanism of Luminous Efficiency Improvement of High  $\gamma$  and High Xe Discharge** (Page 752)  
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Xiong Zhang *Southeast University*  
Hiroshi Kajiyama *Hiroshima University*  
Tomoaki Izumi, Toshiyuki Akiyama *Advanced PDP Development Center Corporation*

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- 52.1: **A Study of Electrostatic Mura Specified for IPS LCD** (Page 756)  
Sung-hoe Yoon, Soho Kim, A-Jung Song, Ji-Yun Jang, Eun-Jung Kim, Byeong-Koo Kim, Ji-Soo Kim, Jae-ha Choi, Hee-Young Song, Seok-Ryoul Lee *LG Display*
- 52.2: **Edge-Type LED Module Mura Analysis and Improvement** (Page 758)  
Chi-Chen Huang, Hung-Ling Yang, Alex Tzeng *AU Optronics Corporation*
- 52.3: **A Use of Electrically Conductive Oxide Ceramic ( $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$  Electride) Electrode Having Low Work Function and Low Sputtering Yield for Fluorescent Lamps** (Page 762)  
Naomichi Miyakawa, Toshinari Watanabe, Satoru Watanabe, Kazuhiro Ito *Asahi Glass Co., Ltd.*  
Setsuro Ito, Hideo Hosono *Tokyo Institute of Technology*  
Shigeo Mikoshiba *The University of Electro-Communications*
- 52.4: **Proposal of Zero-Birefringence Pressure Sensitive Adhesives for Preventing the Light Leakage of LCDs** (Page 766)  
Hiroto Ito, Satoshi Yanai, Akihiro Tagaya, Yasuhiro Koike *Keio University*  
Sumihisa Oda *Saiden Chemical Industry Co., Ltd.*

- 52.5: **Broadband Anti-Reflection (BBAR) Nanostructure Contrast Enhancement (NCEF) Films for Electronic Optical Display Applications** (Page 770)  
Kalc C. Vang, Ta-Hua Yu, Moses David *3M Company*

### Session 53: LED and Laser Backlights

- 53.1: **Invited Paper: Recent Trend of LED Backlight with Local Dimming and its Application for Multi-Primary-Color Displays** (Page 773)  
Yasuhiro Yoshida, Katsuya Otoi, Tomohiko Mori, Kazunari Tomizawa *Sharp Corporation*
- 53.2: **A Novel Optical System LED-Backlight with Excellent Brightness Uniformity for TFT-LCD** (Page 777)  
Takafumi Kokusho, Yasuhiro Morii, Akihiro Mori, Yuji Tsuchiyama, Seiji Sakai, Tetsuya Satake, Akimasa Yuuki, Kenji Itoga, Naoko Iwasaki *Mitsubishi Electric Corporation*
- 53.3: **New Light-Bar Emitting Phosphor-Converted White Line Light Pumped by InGaN/GaN Laser Diode for Edge-Lit Backlight Unit Applications** (Page 781)  
Junichi Kinoshita, Yoji Kawasaki, Yuji Takeda, Misaki Ueno *Harison Toshiba Lighting Corporation*
- 53.4: **Highly Polarized Backlight Consisting of an Aperture-Limited Light Guide Plate and a Hybrid Wire-Grid Polarizer** (Page 785)  
Chi-Jui Chung, Po-Hung Yao, Cheng-Huan Chen *National Tsing Hua University*

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- 54.1: **Invited Paper: Trends in LED Illumination and Display Backlighting** (Page 789)  
Willem Sillevs Smitt *Philips Lumileds Lighting*
- 54.2: **Bidirectional LCD Monitor Using Single Backlight Unit** (Page 793)  
JaeJung Han, Daeil Kang, Seoggyu Byun, Jeongmin Moon, Jaewon Lee *LG Display*
- 54.3: **Cluster LED Spectral Optimization as Lens Design** (Page 797)  
Ming-Chin Chien, Chung-Hao Tien *National Chiao Tung University*
- 54.4: **Zoomable LED Spot Light with High Angular Beam Sharpness** (Page 801)  
Huan-Ping Chiu, Kuan-Yu Chen, Yao-Chien Cheng, Alex Wang *Chilin Technology Co., Ltd.*

### Session 55: Crosstalk in Stereoscopic Displays

- 55.1: **Diversity and Coherence of 3D Crosstalk Measurements** (Page 804)  
Laurent Blondé, Jean-Jacques Sacré, Didier Doyen, Quan Huynh-Thu, Cédric Thébault *Technicolor Research & Innovation*
- 55.2: **A Simulation Platform and Crosstalk Analysis for Patterned Retarder 3D Display** (Page 808)  
Chih-Yao Ma, Yu-Cheng Chang, Yi-Pai Huang *National Chiao Tung University*  
Cheng-Han Tsao *AU Optronics Corporation*
- 55.3: **Crosstalk Measurements of Shutter Glasses 3D Displays** (Page 812)  
Marcus Barkowsky *University of Nantes*  
Sylvain Tourancheau *Mid Sweden University*  
Kjell Brunnström *Acreo AB*  
Kun Wang *Mid Sweden University & Acreo AB*  
Börje Andrén *Acreo AB*
- 55.4: **Image Processing-based Crosstalk Reduction for Stereoscopic Displays with Shutter Glasses** (Page 816)  
Yuki Iwanaka, Takeshi Mita, Masahiro Baba *Toshiba Corporation*

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- 56.1: **Invited Paper: Excited State Interactions in P-OLEDs: Implications for Efficiency and Lifetime** (Page 820)  
Matthew Roberts, Simon King, Michael Cass, Martina Pintani, Chris Coward *Cambridge Display Technology Ltd.*  
Nobuhiko Akino, Hideaki Nakajima, Makoto Anryu *Sumitomo Chemical Company Ltd.*
- 56.2: **Analysis and Interpretation of Degradation Mechanism of OLED with p-Doping Layer** (Page 822)  
WonJun Song, SunHee Lee, Kyul Han, SungSoo Koh, IISoo Park, JiWhan Yoon, KwanHee Lee, JongHyuk Lee, SungChul Kim, ChangHee Lee *Seoul National University*
- 56.3: **Study of Space Charges in Hole Transfer Layer of OLED Devices Using Impedance**

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**56.4: New Deep Blue Fluorescent Materials and Their Application to High Performance OLEDs** (Page 829)

Yuichiro Kawamura, Hitoshi Kuma, Masakazu Funahashi, Masahiro Kawamura, Yumiko Mizuki, Hiroyuki Saito, Ryo Naraoka, Kazuki Nishimura, Yukitoshi Jinde, Toshihiro Iwakuma, Chishio Hosokawa *Idemitsu Kosan Co., Ltd.*

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Jose Zimmer *SCHOTT AG*

**57.2: Direct Dielectric Line Printing for Touch Panel Display Jumpers Using Transparent Dielectric Inks and Aerosol Jet® Deposition Methods** (Page 837)

William Hegge, David Bohling *Optomec, Inc.*

Joe Chou *Sun Chemical*

Michael McAllister, Philippe Schottland *Sun Chemical*

**57.3: The Effect of Touch Screen Hand Stability Method on Performance & Subjective Preference in Turbulence** (Page 841)

Jeff Lancaster, Bob De Mers, Bill Rogers, Andrew Smart, Stephen Whitlow *Honeywell International*

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Daniel Wigdor *University of Toronto*

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**58.1: Invited Paper: Highly Efficient and Long Life MIM Cathodes for FEDs** (Page 849)

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Yun Ye, Tailliang Guo, Zhixian Lin, Jintang Lin, Xiaojing Xiao *Fuzhou University*

**58.3: Invited Paper: Flexible Transparent Photoluminescent Display** (Page 855)

Cheol Jang, Sung-Min Lee, Kukjoo Kim, Sung-Il Ahn, Kyung Cheol Choi *KAIST*

**58.4: Improvement of Luminous Efficacy of Shadow Mask Plasma Display Panel** (Page 858)

Panpan Zhang, Yan Tu, Lanlan Yang, Harm Tolner *Southeast University*

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**59.1: Invited Paper: LTPS Backplane Technologies for AMLCDs and AMOLEDs** (Page 862)

Chi Woo Kim, Jin Goo Jung, Jae Beom Choi, Deok Hui Kim, Chung Yi, Hye Dong Kim, Yun Ho Choi *Samsung Mobile Display Co., Ltd.*  
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**59.2: Development of Ni Sputtering System for Mass Production of Large AMOLED TV Based on SGS Technology** (Page 866)

Gi-Youl Han, Kwang-Soo Ko, Mun-Sik Kim, Won-Yong Lee, Jueng-Hwan Choi, Jae-Moon Choi, Jun-Yong Lee *IRUJA Co. Ltd.*

**59.3: Bridged-Grain (BG) Eximer Laser Annealing (ELA) Polycrystalline Silicon Thin Film Transistors (TFTs)** (Page 870)

Shuyun Zhao *Hong Kong University of Science and Technology*

Zhiguo Meng *Hong Kong University of Science and Technology & Nankai University*

Wei Zhou, Man Wong, Hoi Sing Kwok *Hong Kong University of Science and Technology*

**59.4: Rapid Dehydrogenation Technology of a-Si using Xe Flash-Lamp Annealing** (Page 874)

Young Jin Chang, Jae Hwan Oh, Seong Hyun Jin, Se Hun Park, Min Hwan Choi, Won Kyu Lee, Jae Beom Choi, Hye Dong Kim, Sang Soo Kim *Samsung Mobile Display Co., Ltd.*

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**60.1: LCD Integrated Optics** (Page 878)

John Wheatley, Tao Liu, Matthew E. Sousa, Stephen Etzkorn, Ellen Bösl, John Van Derlofske, Quinn Sanford, C. David Hoyle, Gilles Benoit *3M Company*

- 60.2: **A Polarized Laser Backlight Using a Polymer Free of Orientational and Photoelastic Birefringence** (Page 882)  
Takahiro Kurashima, Akihiro Tagaya, Yasuhiro Koike *Keio University*
- 60.3: **A Novel Backlight System with High On-axis Luminance and Small Viewing Angle** (Page 886)  
Chen-Wei Fan, Jui-Wen Pan *National Chiao Tung University*  
Sheng-Han Tu *Genesis Photonics Inc.*
- 60.4: **Distinguished Paper: A Directional Backlight with Narrow Angular Luminance Distribution for Widening the Viewing Angle of a LCD with a Front-Surface Light-Scattering Film** (Page 890)  
K. Kälántár *Global Optical Solutions*

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- 73.1L: **Late-News Paper: Novel Multi-View Display Using QDA Screen with Short Projection Distance by Tiled Image Method** (Page 894)  
Shiro Ozawa, Kazuyuki Iso, Yasuhiro Yao *NTT Corporation*  
Tohru Kawakami, Baku Katagiri, Yoshihito Suzuki *Tohoku University*  
Tatsuo Uchida *Tohoku University and Sendai National Colleges of Technology*
- 73.2L: **Late-News Paper: A Multi-View Projection Display** (Page 898)  
Huei Pei Kuo, Kar Han Tan, Larry Hubby, Robert Garcia, Alexander M. Bratkovsky  
*Hewlett Packard Company*
- 73.3L: **Late-News Paper: High Efficiency LED Illuminator for 2D/3D Switchable LCoS Projection Display** (Page 901)  
Sheng-Hsun Hsieh, Cheng-Huan Chen *National Tsing Hua University*
- 73.4L: **Late-News Paper: Miniature, Highly Efficient, and Low Cost Green Laser Source for Pico-Projectors** (Page 904)  
Stepan Essaian, John Khaydarov, Slav Slavov *Spectralus Corporation*  
Gevorg Gabrielyan, Armen Poghosyan, Suren Soghomonian *Spectralus CJSC*  
Changyeoung Kim *Advanced Media Lab, SAIT, Samsung Electronics*

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- 61.1: **Control of Subjective Depth in Stereoscopic Motion Pictures by Quantified Aerial Perspective** (Page 908)  
Shuichi Takahashi, Yasuhide Hyodo, An-Pang Lin, Isao Ohashi, Yoshihide Shimpuku  
*Sony Corporation*  
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- 61.2: **The 3D Image Quality Index ( $\Delta X_{3D}$ ) Including Crosstalk, Motion Blur, and Disparity for Two-View Stereoscopic Images** (Page 912)  
Yu-Yi Chien, Yu-Cheng Chang, Yi-Pai Huang *National Chiao Tung University*
- 61.3: **Stereoscopic 3D Content Depth Tuning Guided by Human Visual Models** (Page 916)  
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- 61.4: **Active Crosstalk Reduction on Multi-View Displays Using Eye Detection** (Page 920)  
Juyong Park, Dongkyung Nam, Geeyoung Sung, Yuntae Kim, Dusik Park, Changyeoung Kim *Samsung Electronics*

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- 62.1: **High-Performance Solution-Processed OLED Enhanced by Evaporated Common Layer** (Page 924)  
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- 62.2: **Development of Polymer Light-Emitting Diode (PLED) Displays Using the Relief Printing Method** (Page 928)  
Jun Onohara, Keisuke Mizuno, Yuji Kubo, Eiichi Kitazume *Toppan Printing Co., Ltd.*
- 62.3: **Fundamental Issues with IJP P-OLED Devices: Identification and Corrective Actions** (Page 932)  
Ilaria Grizzi, Mark Crankshaw, Daniel Forthysythe, Gary Williams *Cambridge Display Technology, Ltd.*
- 62.4: **Hybrid Polymer-OLEDs with Doped Small-molecule Electron-Transport Layers for Display Applications** (Page 935)  
Ulrich Denker, Tobias W. Canzler, Jan Birnstock *Novald AG*  
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- 63.1: **Invited Paper: Liquid Crystal Devices Based on Photoalignment and Photo-Patterning Materials** (Page 939)  
Vladimir Chigrinov, Hoi Sing Kwok *Hong Kong University of Science and Technology*  
Isa Nishiyama, Hirohi Hasebe, Haruyoshi Takatsu *Dainippon Ink and Chemicals Inc.*
- 63.2: **Pre-Tilt Alignment Technique via Photo-Reactive Side Chains on PI Layer for VA LCD** (Page 942)  
Kai-Xian Yang, Jan-Tien Lien *Chunghwa Picture Tubes, Ltd.*
- 63.3: **Fast Switching Surface-Polymer-Assisted IPS Liquid Crystal Displays** (Page 945)  
Jeoung-Yeon Hwang, Liang-Chy Chien *Kent State University*
- 63.4: **Photocopy Technology in Producing Patterned Alignment Layer** (Page 948)  
Tao Du, Fan Fan, Qi Guo, Vladimir Chigrinov, Hoi Sing Kwok *Hong Kong University of Science and Technology*

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- 64.1: **Invited Paper: The New Information Display Measurements Standard - A Display Metrology Document** (Page 950)  
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- 64.2: **MEMs-Based Reflective Display Measurements in Ambient Use Conditions** (Page 954)  
Thomas G. Fiske *Qualcomm MEMS Technologies, Inc.*
- 64.3: **Flicker Visibility: A Perceptual Metric for Display Flicker** (Page 957)  
Andrew B. Watson, Albert J. Ahumada *NASA Ames Research Center*

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- 65.1: **Color Breakup Reduction by Local-Primary-Desaturation in Color-Filterless LCDs** (Page 960)  
Fang-Cheng Lin *Philips Research Laboratories & National Chiao Tung University*  
Yuning Zhang *Philips Research Laboratories & Southeast University*  
Erno H. A. Langendijk *Philips Research Laboratories*
- 65.2: **A 120 Hz Spatio-Temporal Color Display without Color Breakup** (Page 964)  
Yuning Zhang *Southeast University & Philips Consumer Lifestyle*  
Erno H. A. Langendijk, Martin Hammer *Philips Consumer Lifestyle*  
Fang-cheng Lin *Philips Consumer Lifestyle & National Chiao Tung University*
- 65.3: **Stencil Field-Sequential-Color Method on Locally Controlled Side-Lit Eco-LCDs** (Page 968)  
Chang-I Teng, Fang-Cheng Lin, Yi-Pai Huang, Han-Ping David Shieh *National Chiao Tung University*

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- 66.1: **Invited Paper: Performance of a Large-Size White OLED for Lighting Application** (Page 972)  
Min Soo Kang, Mun Kyu Joo, Jung Hyoung Lee, Yun Hye Ham, Jung Bum Kim, Kyoung Sik Moon, Sehwon Son *LG Chem*
- 66.2: **Efficiency Enhancement in White PIN OLEDs by Simple Internal Outcoupling Methods** (Page 975)  
Tobias W. Canzler, Sven Murano, Domagoj Pavicic, Omrane Fahdel, Carsten Rothe, Andreas Haldi, Michael Hofmann, Qiang Huang *Novaled AG*
- 66.3: **Hybrid White OLEDs for General Lighting** (Page 979)  
Peter Loebel, Claudia Goldmann, Volker van Elsbergen, Stefan Grabowski, Herbert Boerner, Dietrich Bertram *Philips Technologie GmbH*
- 66.4: **Invited Paper: Challenges and Opportunities in Scaling Up OLED Lighting Devices** (Page 983)  
Ruiqing Ma, Peter A. Levermore, Huiqing Pang, Prashant Mandlik, Kamala Rajan, Jeffrey Silvernail, Mike Hack, Julie J. Brown *Universal Display Corporation*

### Session 67: 3D Human Factors and Performance

- 67.1: **Invited Paper: Performance Gains When Using 3D Displays vs. 2D Displays** (Page 987)  
John O. Merritt *The Merritt Group*

- 67.2: **Perceptual Brightness Analysis of 2D and Stereoscopic 3D Displays** (Page 991)  
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*Samsung Mobile Display Co., Ltd.*
- 67.3: **Perceptually Relevant Characterization of Stereoscopic Displays** (Page 994)  
Kees Teunissen, Aleksandar Sevo, Age van Dalssen, Hans van Parys *Philips Consumer Lifestyle*
- 67.4: **Measurement and Characterization of Autostereoscopic 3D Display: A New Analytical Method** (Page 998)  
Sheng-Chi Liu, Che-Wei Chang *Chunghwa Picture Tubes, Ltd.*

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- 68.1: **Capacitance-Voltage Characteristics of Top-Emitting Organic Light Emitting Diodes for Mobile Display Application** (Page 1002)  
Jaewon Lee, Kang-Ju Lee, Min-ki Kim, Jong-sung Kim, Choong-keun Yoo, Hyong-Yoon Oh, Sooyoung Yoon, Chang-Dong Kim, Yong-Kee Hwang *LG Display*
- 68.2: **Using Rigorous Electromagnetic Analysis in Modeling OLEDs with Gratings** (Page 1006)  
Wen-Lan Yeh, Yih-Peng Chiou *National Taiwan University*  
Chun-Liang Lin, Chieh-Wei Chen, Chung-Chun Lee *AU Optronics Corporation*
- 68.3: **Achieving a High-Efficiency White Organic Light-Emitting Diode Based on Transient Electroluminescence Analysis** (Page 1010)  
Yi-Hsin Lan, Chih-Hung Hsiao, Jiun-Haw Lee *National Taiwan University*

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- 69.1: **The Method and Mechanism of Optimizing Optical Performances of Polymer-Stabilized Liquid Crystals Panels** (Page 1013)  
Kuo-Hua Wu, Wei-Chieh Yang, Ping-Chun Liang, Maw-Song Chen, Wei-Ming Huang *AU Optronics Corporation*
- 69.2: **Novel Viewing Angle Control Technology with Single-Cell LCD** (Page 1016)  
Chih-Hsiang Yang, Chao-Wei Yeh, Chien-Huang Liaw, Wen-Hao Hsu, Jenn-Jia Su *AU Optronics Corp.*
- 69.3: **Spontaneously Formed Dual Groove Structure for Control of Azimuthal Anchoring and Pretilt in Liquid Crystal Alignment** (Page 1019)  
Chang-sub Park, Yeonjeong Han, Kyung-Il Joo, Ji-Sub Park, Min-Kyu Park, Shin-Won Kang, Hak-Rin Kim *Kyungpook National University*
- 69.4: **High Speed In-Plane Switching LCD with Free Retardation** (Page 1022)  
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- 70.1: **Distinguished Paper: Achieving High Color Reproduction Accuracy in LCDs for Color-Critical Applications** (Page 1026)  
Louis D. Silverstein *VCD Sciences, Inc.*  
Syed F. Hashmi *University of Arizona*  
Karl Lang *Lumita, Inc.*  
Elizabeth A. Krupinski, William Dallas, Hans Roehrig *University of Arizona*
- 70.2: **Virtual Display: A Platform for Evaluating Color Calibration Kits** (Page 1030)  
Wei-Chung Cheng, Aldo Badano *US Food and Drug Administration*
- 70.3: **Precise Evaluation of the Colorimetric Properties of Displays versus Viewing Angle Using Fourier Optics** (Page 1034)  
Pierre Boher, Thierry Leroux, Thibault Bignon, Véronique Collomb-Patton *ELDIM*
- 70.4: **Optical Characterization of Scattering Anti-Glare Layers** (Page 1038)  
Michael E. Becker *Display-Metrology & Systems*  
Juergen Neumeier *Autronic-Melchers GmbH*

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- 71.1: **Development of Micro-Pixelated GaN LED Array Micro-display System** (Page 1042)  
Cheng-Wei Sun, Chia-Hsin Chao, Heng-Yin Chen, Yung-Hsiang Chiu, Wen-Yung Yeh, Ming-Hsien Wu, His-Hsuan Yen, Chao-Chiun Liang *Industrial Technology Research Institute*

- 71.2: **Color Displays Using Reconfigurable Liquid Droplets** (Page 1046)  
Su Xu, Hongwen Ren, Yifan Liu, Shin-Tson Wu *University of Central Florida*
- 71.3: **Flat-Panel-Display System Based on Interference Modulation for Both Intensity and Color** (Page 1049)  
Yuye Ling, Weilu Gao, Shihong Ouyang, Guoen Liang, Yikai Su, Han-Ping D. Shieh  
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