



# iMID 2022

The 22nd International Meeting on Information Display  
August 23-26, 2022 / BEXCO, BUSAN, KOREA

## **Virtual Platform Guideline**



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# How to Access

**iMiD 2022**  
August 23-26, 2022 / BEXCO, BUSAN, KOREA

- ✓ IMiD 2022 Virtual Platform
- Please access the **Personalized URL** sent to you by email.



**iMiD 2022**  
The 22nd International Meeting on Information Display  
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Please access the **PERSONALIZED URL** sent to you by email.

**iMiD 2022**  
THE 22ND INTERNATIONAL MEETING ON INFORMATION DISPLAY  
**Driving Display to the Future**  
August 23-26, 2022 | BEXCO, BUSAN, KOREA

**ONLINE LIVE STREAMING**

**OPENING CEREMONY & KEYNOTE LECTURES**  
15:10-17:40, August 24 (Wed.)  
Korea Standard Time / GMT+9

ORGANIZED BY **KIDS** **SID** **KDIA**  
Korea Display Industry Association

SPONSORED BY **KO-ST** **Korea Display Industry Association** **bt** **BUSAN** **MERCK** **ADMESY** **SAMSUNG DISPLAY** **LG Display**

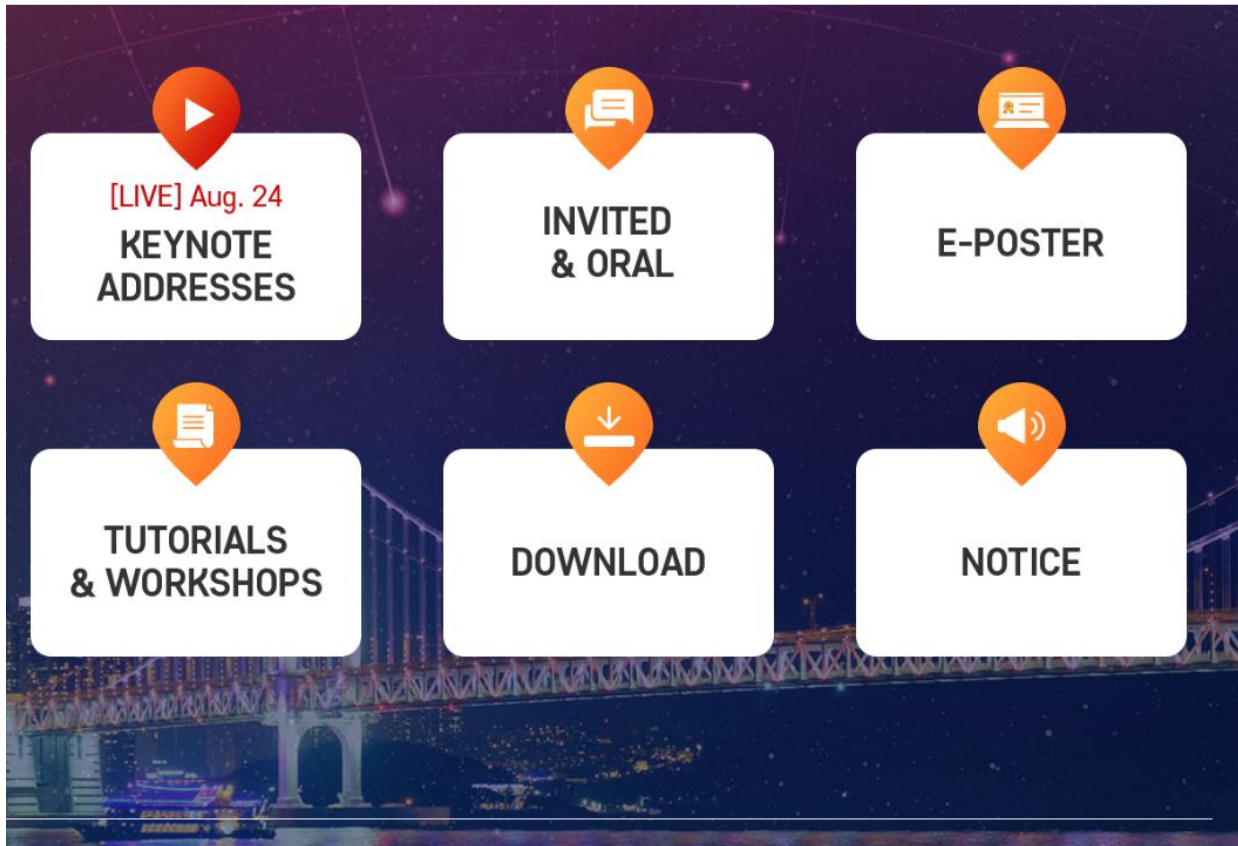
**UNIVERSAL DISPLAY CORPORATION** **KONICA MINOLTA** **LUKAS** **태원과학(주)** **DONGWOO FINE-CHEM** **Medigen, Inc** **DONGJIN**

**[IMPORTANT]**

Once you log in, we regard as you agreed that all the materials and publications presented in IMiD 2022 are prohibited for any unauthorized distribution or commercial use.

- ✓ After you accessed from the page, you will be able to see the following page with menu tabs.
- ✓ Each of the tabs shows the content below.

**iMiD 2022** The 22nd International Meeting on Information Display  
Delivering Display to the Future  
August 23-26, 2022 / BEXCO, BUSAN, KOREA



- ① Keynote Addresses
- ② Invited & Oral
- ③ E-Poster
- ④ Tutorials & Workshops
- ⑤ Download
- ⑥ Notice

# Keynote Addresses

- ✓ Click the '[Live] Aug. 24 KEYNOTE ADDRESSES' menu. You can see the live-streaming via Youtube. Opening Ceremony & Keynote Addresses will be held from 15:10 to 17:40 on August 24, 2022 (Korea Standard Time (GMT +09:00)).
- ✓ The recorded version of the **Keynote Addresses** will be posted from one week after the end of the conference. (from Sep. 5 (Mon.), 2022)

Click this button, the live-streaming (YouTube) will be broadcasted on the screen.

**Keynote Addresses** **▶ ONLINE LIVE-STREAMING** **Click**

Keynote	Speaker	Title	Affiliation	Topic	Availability
[Keynote I]	Dr. JS Choi	President and CEO	Samsung Display Co., Ltd., Korea	"Changing Display Industry with Disruptive Innovation"	Abstract, Biography
[Keynote II]	Prof. Stephen Forrest	Professor	University of Michigan, USA	"Getting Long Lifetime, and High Efficiencies from the Blues"	Abstract, Biography
[Keynote III]	Dr. Tomoyuki Mishina	Head of Spatial Imaging Research Division	NHK STRL, Japan	"Cutting-Edge Technologies to Spin up Future Media"	Abstract, Biography
[Keynote IV]	Dr. Michael Heckmeier	EVP, Display Solutions of Electronics Business	Merck KGaA, Germany	"Advancing Display. Advancing Life."	Abstract, Biography

- ✓ This tab shows our conference program. You may see the detail by clicking the session you intend to see.
- ✓ To see the presentation(s) or paper(s), click the button “View” in each of the talks.

## Program

	TIME	211-213 (Room A)	214-216 (Room B)	217 (Room C)	
Aug. 23 (Tue.)	10:00 ~ 13:00	Tutorials 1			
	13:00 ~ 14:30				
	14:30 ~ 17:30	Tutorials 2			
Aug. 24 (Wed.)	09:00 ~ 10:30	★Oral 01 Materials Design	★Oral 02 Stretchable Electronic Systems	Oral 03 OLED	
	10:30 ~ 10:50				
	10:50 ~ 12:20	★Oral 09 Panel & Process	★Oral 10 Freeform Display	Oral 11 OLED Device 1	
	12:20 ~ 13:20				
	13:20 ~ 14:50				
	14:50 ~ 15:10	Break Time			
	15:10 ~ 15:40	Opening Ceremony (2F, Auditorium)			
	15:40 ~ 16:10	Keynote Addresses I-IV (2F, Auditorium)	[Keynote I] "Changing Display Industry with Disruptive Innovation" by Dr. JS Choi (President and CEO, Samsung Display Co., Ltd., Korea) / Offline		
	16:10 ~ 16:40		[Keynote II] "Getting Long Lifetime, and High Efficiencies from the Blues" by Prof. Stephen Forrest (Univ. of Michigan, USA) / Offline		
	16:40 ~ 17:10		[Keynote III] "Cutting-Edge Technologies to Spin up Future Media" by Dr. Tomoyuki Mishina (Head of Spatial Imaging Research Division, NHK STRL, Japan) / Online Live-streaming		
17:10 ~ 17:40	[Keynote IV] "Advancing Display. Advancing Life." by Dr. Michael Heckmeier (EVP, Display Solutions of Electronics Business, Merck KGaA, Germany) / Offline				

**Click to access the Zoom!**

<b>Session Title:</b>	[A01] - Materials Design
<b>Session Date:</b>	August 24 (Wed.), 2022
<b>Session Time:</b>	09:00-10:15
<b>Zoom Link:</b>	Zoom Link <a href="#">Click</a>
<b>Session Room:</b>	Room A (211)
<b>Session Chair(s):</b>	Dr. Hoilim Kim (Samsung Display Co., Ltd., Korea)

[A01-1] [Invited] 09:00~09:25

Quantum Machine Learning and Simulation for Modelling Organic Molecules  
Ju-Young Ryu and June-Koo Kevin Rhee (KAIST, Korea)

[View](#) **Click**

[A01-2] 09:25~09:50

Quantum Computing Methods for OLED Materials Design  
Scott N. Genin, Ilya G. Ryabinkin, Rami Gherib, and Michael G. Helander (OTI Lumionics Inc., Canada)

[View](#)

- ✓ This tab shows the presentation **video and the paper file** of the talk you clicked.
- ✓ You may leave your **comment(s)/question(s)** on the right side, then it will be notified to the authors automatically.

**\*Offline and Online (Live-streaming) presentations will be uploaded on our online platform from one week after the end of the conference. (from Sep. 5 (Mon.), 2022)**

The screenshot displays the iMiD 2022 online platform interface. On the left, there is a navigation menu with a dropdown menu for "[H56] - Red Micro LED & Applications" and a list of presentations including "[H56-1] - High Efficiency Submicron Scale Green a", "[H56-2] - Tuning III-N Emission for Red Light Emitt", "[H56-3] - Thermally Stable Vertical  $\mu$ LED Patch for", "[H56-4] - First-Principles Analysis of Vacancies on", and "[H56-5] - Investigation of Size-Dependent Leakage". The main content area features a video player with a "Video" tab selected and a "Paper file" tab. Below the video player, the title "[H56-2] Tuning III-N Emission for Red Light Emitting Devices" is displayed, followed by the authors' names: "N. Ben Sedrine (EN & Univ. de Aveiro & Castro S.A., Portugal), J. Rodrigues (Univ. de Aveiro, Portugal), D. M. Fajó (Inst. Superior Técnico, Portugal), M. Bockowski (Polish Academy of Sciences, Poland), Y. Hoffmann, M. Weyers (batzint-Inst. für Hochfrequenztechnik, Germany), A. J. Neves (Univ. de Aveiro, Portugal), E. Alves, K. Lorenz (Inst. Superior Técnico, Portugal), M. R. Correia, T. Monteiro, and N. Ben Sedrine (EN & Univ. de Aveiro & Castro S.A., Portugal)". A red callout box with the text "Comments available" points to a comment input field on the right side of the interface. The input field contains the text "남기고 싶으신 댓글 입력해주세요. (최대 2000 자)" and a green submit button.

- **Offline**
  - All domestic speakers will participate in person and give their presentations offline according to the program schedule. The presentation recordings will be available on our online platform from one week after the end of the conference.
- **Online (Live-streaming with real-time Q&A)**
  - The speaker will join the session via Zoom. The presentation will be given live or via pre-recorded video. After the presentation, real-time Q&A with the speaker will follow. The presentation recording will be available on our online platform from one week after the end of the conference.
- **Online (Pre-recorded video without real-time Q&A)**
  - The pre-recorded presentation videos will be played according to the program schedule. It will be also available on our online platform from August 23 (Tue.), 2022. A Q&A board will be available on the online platform.

- ✓ This tab shows the E-Posters at IMiD 2022.
- ✓ You may search papers by topics or keywords to seek the paper you intend to look up.

≡ iMiD 2022

검색

검색어를 입력해 주세요

모든 카테고리 Poster Session 1 Poster Session 2 Poster Session 3

모든 카테고리 ★01. Special Session I: AI & Computational Technologies for Display ★02. Special Session II: Display with Free Form Factors

★03. Special Session III: Hyper Realistic Display for Metaverse 04. Active-Matrix Devices 05. Applied Vision/Human Factors 06. AR/VR/MR and 3D Display Optics

07. Display Electronics and Systems 08. Display Manufacturing and Processes 09. Emerging Materials and Devices for Display Technology 10. LC Technologies and Electro-Optic Materials

11. Lighting Materials and Applications 12. Medical/Bio-integrated Optoelectronic Materials and Devices 13. Micro-LEDs 14. Multisensory Technology for Display and Beyond

15. OLED Frontplanes 16. Quantum Dots Young Leaders Conference 1 Young Leaders Conference 2 Selected Oral Session Featured Late News

Poster Session 1  
[P1-001] - Automatic Particle Inspection on Display Panel and Flexible Printed Circuit Bonding Pad Using Object Detection  
Seung Hwan Cheong and Nam ik Cho (Seoul Nat'l Univ., Korea)

Poster Session 1  
[P1-002] - Automated Equipment Control System Using Natural Language Processing  
Dongchan Seo, Jae Hyeon Eun, Ji Lim, Younghoon oh.  
(Samsung Display Co., Ltd., Korea)

Poster Session 1  
[P1-003] - Energy Combining System Using  
Jong

Poster Session 1  
[P1-004] - Knowledge Distillation between  
Myoung Choi, and Keun Seob Choi (Samsung Display Co., Ltd., Korea)

Poster Session 1  
[P1-005] - Gamma Correction AI Algorithm Using Process Parameters of Fab  
Min-Weun Kim (Samsung Display Co., Ltd., Korea)

Poster Session 1  
[P1-006] - A Decomposition-Based Ensemble Network for Estimation of Critical Dimension in Lithographic Process of OLED Panel  
Sujin Park, Younggil Jin, Jaewon Kim (Samsung Display Co., Ltd., Korea)

Click to add a heart for the poster(s) you like!



Poster Session 1  
[P1-007] - Bayesian Optimization Method with Genetic Algorithm for Display Manufacturing Process Optimization  
Daein Kang, Daeyong Kim, Jinsung Hwang, Jangwoo Kim, and Yongjo Kim (Samsung Display Co., Ltd., Korea)

Poster Session 1  
[P1-008] - HOP TFT IV Decoding with Asymmetric AE with Partial De-Noising  
Kyongtae Park, Taeyoung Khim, Dongso Kim, Sanghoon Lim, Jungsuk Bae, Jongchan Lim, and Kyungjin Yoo (Samsung Display Co., Ltd., Korea)

Poster Session 1  
[P1-009] - Display Sub-Pixel Shape Optimization Method for Maximizing Optical Properties  
Bongjoon Park, Hyunyoung Choi, Sangyun Lim, Jongmin Ok, Daeyong Kim, and Jangwoo Kim (Samsung Display Co., Ltd., Korea)

Poster Session 1  
[P1-010] - AI-Based Ensemble Architecture for Anomaly Detection of a Video Footage in an Evaporation Process of Manufacturing OLED Panels  
Euiyoung Jeong, Eunwoo Kim, Changwook Seo, and Jaewon Kim (Samsung Display Co., Ltd., Korea)

Poster Session 1  
[P1-011] - Automatic Failure Analysis of Touch Panel Displays Using XAI  
Taekyung Yim, Sujin Park, Jin Jeon, and Sungho Cho (Samsung Display Co., Ltd., Korea)

Poster Session 1  
[P1-012] - High Speed Transmission Line Design Using AI Technologies in Display  
Hyo-Chul Lee, In-Soo Wang, Ji-Won Kim, Seungjin Baek, and Yongjo Kim (Samsung Display Co., Ltd., Korea)



✓ This tab shows the Tutorials & Workshops at IMiD 2022. You may see the detail by clicking the session you intend to see.

## Tutorials / Workshops

### Tutorials

Date & Time : Aug. 23 (Tue.), 10:00-17:20  
Place : Room A (#211~213)

The tutorials are aimed to provide introductory courses for the newcomers to the information display technologies. The tutorials provide audience with six basic topics: OLED, Quantum Dots, Backplane, Micro-LEDs, AR/VR, and Vision (Color, Human Perception) display technologies.

No.	Topic	Presentation Time	Title	Speaker	
1	OLED	10:00-10:50	Organic Light Emitting Diodes - State-of-the-Art and New Frontiers Beyond the Display Industry	Malte Gather (Univ. of St And	
2	Quantum Dots	11:00-11:50	Materials Science and Device Physics of Intra-band Colloidal Quantum Dots for Mid-Infrared Detector Applications	Dong-Kyun Ko (New Jersey Inst. of Tech., USA)	
3	Backplane	12:00-12:50	Making Semiconductor Monolayers Perfectly Bright	Ali Javey (UC Berkeley, USA)	
4	Micro-LEDs	14:30-15:20	Nano-Photonics: Epitaxy, Device, and Display Application	Yong-Ho Ra (Jeonbuk Nat'l Univ., Korea)	
5	AR/VR	15:30-16:20	OLED-on-Silicon Microdisplays	Amal Ghosh (eMagIn, USA)	
6	Vision (Color, Human Perception)	16:30-17:20	Vision and Human Perception	Hyungki Hong (Seoul Nat'l Univ. of Sci. and Tech., Korea)	

Click the button to see the Tutorials & Workshops Book

Tutorials & Workshops Book

ZoomLink

Click

Click to access the Zoom!

### Workshops

Date & Time : Aug. 23 (Tue.), 10:00-16:00  
Place : Room B (# 214~216)

The workshop is aimed to provide fundamental principles and up-to-date progresses of cutting-edge information display technologies. At IMiD 2022, a series of pre-conference workshop programs are focusing on the advanced research and technologies for Hyper realistic displays, Micro-LEDs, and Quantum Dots.

No.	Topic	Presentation Time	Title	Speaker	
1	Hyper Realistic Display for Metaverse (AR/VR/MR)	10:00-10:50	Focus Cues and Occlusion Support for Optical See-through Augmented Reality Displays	Jae-Hyeung Park (Inha Univ., Korea)	
2		11:00-11:50	Light-Weight Optical Combiner Technology for Augmented and Mixed Reality	Soon-gi Park (LetinAR, Korea)	
3	Micro-LEDs	12:00-12:50	Micro-LED Devices for Emerging Electronic Applications	Jong-Hyun Ahn (Yonsei Univ., Korea)	
4	Quantum Dots	14:30-16:00	The Commercialization History and Roadmap of Colloidal Quantum Dot Technology	Jonathan Steckel (ST Micro, France)	

ZoomLink

✓ You may download softcopies of the following materials from here:

- ① E-Program Book
- ② E-Proceedings
- ③ E-Exhibition Directory Book

E-Program Book (139.2MB)

 Download

E-Proceedings (95.7MB)

 Download

E-Exhibition Directory Book (14.7MB)

 Download

- ✓ Notice tab shows frequently asked questions (FAQs) related to our conference.
- ✓ We recommend most of your inquiries can be found in here.
- ✓ For any other inquiries, please email us at [imid@k-ids.or.kr](mailto:imid@k-ids.or.kr) .

A list of frequently asked questions (FAQs) is displayed in a scrollable container. Each question is preceded by a category label in brackets (e.g., [Registration], [Program]) and followed by a small downward-pointing arrow icon. A yellow callout box with a red border and a red arrow points to the arrow icon of the question: "[Registration] How can I check my registration number?". The text inside the callout box reads: "Click the button to disclose the answer(s)." To the right of the callout box, the word "Click" is written in red, with a hand cursor icon pointing towards the arrow icon of the same question.

[Registration] I need a registration receipt or a certificate of participation.

[Registration] How can I get Invoice / Receipt / Confirmation letter?

[Registration] How can I get e-Name Badge / e-Participation Certificate?

[Registration] How can I check my registration number?

[Registration] Can I register after the conference starts?

[Program] How can I enjoy the program?

[Program] How can I ask questions?

[Program] How do I access the pre-recorded presentation?

[Program] How can I access the live-streaming of Opening Ceremony & Keynote Addresses?

[Program] How can I join a real-time Q&A for a Featured Invited Session?

[Program] How can I participate in voting for the 'Best Poster Awards'?

[Program] How can I see the presentation file for Tutorials?