



The 28th International Workshop on Active-Matrix Flatpanel Displays and Devices (AM-FPD '21) will be held at **Online from June 29 to July 2, 2021.** (<http://www.amfpd.jp/access.html>)

This workshop has been providing good opportunities to exchange ideas for advanced information on active-matrix flatpanel displays (AM-FPDs), thin-film transistors (TFTs), photovoltaics (PV) technologies, thin-film materials and devices (TFMD), and other related topics.

**Papers are solicited on, but not limited to, the following topics:**

- **Flat Panel Displays (FPD):** flexible display, printed display, LCD, OLED,  $\mu$ LED, e-paper, 3D display, virtual reality display, augmented reality display, high-resolution display, high-definition display, automotive display, novel display, touch screen panel, in-cell technology, driving technology, circuit technology, display manufacturing, and other FPD technology,
- **TFT Technologies (TFT):** oxide TFTs, organic TFTs, amorphous, microcrystalline and polycrystalline Si-based TFTs, other material TFTs such as graphene, carbon nanotubes, layered transition metal dichalcogenide, and semiconductor nanowires, device modeling, device and circuit simulation, reliability, and other TFT technology,
- **Photovoltaics (PV):** thin-film solar cells (Si-based, compound, organic, and perovskite), amorphous/crystalline Si heterojunction, passivation, transparent conductive oxides and light management, third-generation (quantum dots, interband, plasmon etc.), BIPV, characterization, reliability, photo-thermal solar energy conversion, and other PV technology,
- **Thin-Film Materials and Devices (TFMD):** thin-film materials (2D materials, and others) and processing, apparatus technology, wearable sensors, thin-film emerging devices (imaging devices, sensors, and others), thin-film and devices characterizations (structural, optical and electrical properties), substrate materials and passivation technologies, and other TFMD technology.

## *“Shoot the Future on the New Platform!”*

### ORGANIZING CHAIR

H. Hamada  
Kinki Univ.

### Keynote Address

*“Modulation Spectroscopies for the Characterization of Electronic Properties in Organic Semiconductor Devices”*

### VICE CHAIR

H. Tsutsu

*“Prof. Hiroyoshi Naito (Osaka Prefecture Univ.)”*

*“Novel Passivating Contacts for Si Photovoltaics”*

*“Dr. Takuya Matsui (Nat'l Inst. of Advanced Industrial Sci. and Technol.)”*

### STEERING CHAIR

Y. Uraoka  
NAIST

### Special Symposium

The Special Symposium *“The Future Vehicle Displays”* is actively planned by Prof. Norbert Fruehauf (Univ. of Stuttgart). Speakers from OEMs and Suppliers are invited from EU, USA, and Japan.

### VICE CHAIR

H. Tanabe  
Tianma Japan

### Symposia

In addition to the regular sessions, symposia *“Variety of TFT Technologies for Emerging Applications”*, *“Advanced Materials and Processes for Next Generation PVs”* and *“Development of Fabrication and Analysis for Thin Film Devices”* are scheduled. And also, a special session is planned. Invited speakers will talk about the latest topics regarding these subjects.

### PROGRAM

#### CHAIR

H. Okada  
Univ. of Toyama

### IEEE Xplore

The accepted papers will be published in IEEE Xplore.

### VICE CHAIR

M. Kitamura  
Kobe Univ.

### Tutorial in Japanese

This tutorial is aimed at beginners as well as experienced researchers who like to review them. Presentations and documents will be in Japanese. The lecture will be available for an additional fee.

*“Flexible display device technology and applications”*

*“Prof. Hiroyuki Okada (Univ. of Toyama)”*

*“Basic Photovoltaic Principles and Fabrication Methods”*

*“Dr. Yasuyoshi Kurokawa (Nagoya Univ.)”*

**2-4 PAGE CAMERA-READY PAPER DEADLINE : April 4, 2021 (Japan Standard Time)**  
**LATE NEWS CAMERA-READY PAPER DEADLINE : April 30, 2021 (Japan Standard Time)**

## PREPARATION AND SUBMISSION OF PAPERS

Authors are required to submit of **2 to 4 pages camera-ready paper** with all figures and tables via website for review.

Please use A4-size PDF file based on the format that is described in the instructions for preparing Camera-Ready Summaries for AM-FPD '21. It is provided at the website (<http://www.amfpd.jp/>).

Category of the work (FPD, TFT, PV, TFMD) and preferred mode of presentation (Oral or Poster) should be selected in the online submission page.

We endorsement to some submitted papers to "IEEE Journal of Electron Device Society (J-EDS)" or "ECS Journal Solid State Science and Technology (JSS)". Authors must choose either on the online submission page.

*Please follow the instructions:*

- (1) Don't use two byte characters or Asian Fonts.
- (2) The standard font should be used whenever possible, for example, Times-Fonts Family, Helvetica-Fonts Family.
- (3) If you wish to type a symbolic character into the paper, please use Symbol-Fonts Family.
- (4) It is desirable to prepare PDF file by Acrobat 4.X or later and PDF version 1.3.

*Papers must be original contributions. The paper is required to include the following points:*

- (1) Objective and backgrounds, describing the goal and the motivation of your work shortly
- (2) Results, describing the specific new results in detail
- (3) Impact and significance of your work, comparing your findings with prior published work(s)
- (4) Prior publications and references

The paper for review in PDF file must be submitted via website.

AM-FPD '21 website: <http://www.amfpd.jp/>

## ACCEPTANCE

Authors of accepted papers will be notified by the **end of April, 2021**. Accepted papers can be presented either by oral or by poster. The program committee, however, reserves the right to consider your paper for either oral or poster presentation. Oral presentations, including questions and answers, are scheduled for 20 minutes.

The accepted paper will appear as it is on the Proceedings of the AM-FPD '21.

*Acceptance is subject to following conditions:*

- (1) All presenting authors are required to complete the advance registration by **May 15 (including the payment)**.
- (2) The paper submitted to AM-FPD '21 must not be published nor placed on the Web before it is presented at the conference.

## LATE NEWS

A limited number of Late News papers reporting important findings or developments may be accepted. Deadline for receipt of **2-page camera-ready manuscript** is **April 30, 2021** (Japan Standard Time). Late News papers are also submitted via the website. Detailed instruction for preparing the manuscript is available at the website (<http://www.amfpd.jp/>). Authors of accepted Late News papers will be notified by the **middle of May, 2021**.

## AWARD(S)

AM-FPD Paper Awards will be given to the best, poster and student papers presented in this workshop and will be honored at the next workshop. And ECS Japan Section (Technical co-sponsor for AM-FPD '21) and AM-FPD Organizing Committee jointly established the high-minded award, "AMFPD-ECS Japan Section Young Researcher Award".

## FURTHER INFORMATION

For further information and submission of papers, please visit:

AM-FPD '21 website (<http://www.amfpd.jp/>)

If you have any questions or inquiries, please contact:

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