【News Release】December 19, 2017
Converting Technology Exhibition Secretariat

To all members of the media:

Pioneering the Future With Human Sensing
The latest in flexible electronics technology
- Printable Electronics 2018 -

The Converting Technical Institute and JTB Communication Design will hold **Printable Electronics** (held consecutively with new functional material and 3DecoTech Expo) over the three days from Wednesday, February 14 to Friday, February 16, at Tokyo Big Sight.

Now in its 10th year, Printable Electronics brings together all of the materials and process technologies required to fabricate electronic circuits and devices with printing technology. Contributing to the expanded production of flexible and wearable devices for IoT applications, Printable Electronics will focus on the features of “light,” “thin,” “bendable,” “stretchable,” and “connectivity” as we exhibit those future technologies that will change the fields of sports, entertainment, medicine, and nursing care through human sensing.

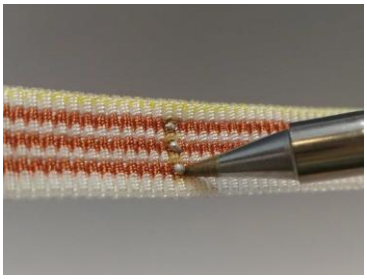
The consecutively held seminars will cover the RFID technologies being tested for adoption in the distribution and retail industries in terms of the state of commercialization, current issues, and application to packaging via circuit printing.

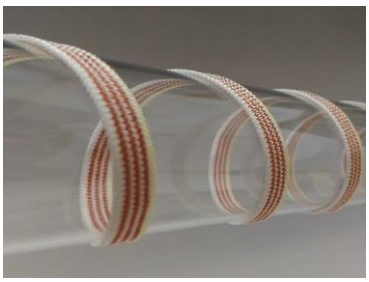
We hope you look forward to this event as we turn the technology of dreams into reality.

---------- **【 Exhibitor Pickup】** ----------

▼**GUNZE** [Booth No. 2V-07, Flexible Electronics Experience Zone] Knit wire

We made soft electronic wiring that is knitted by combining UEW, elastic yarn, and etc. Wiring width is 10 mm, there are 2 kinds of 3 lines and 4 lines, the resistance value is about 5 ohm / m per 1 line. It can be used for LED lighting and electric communication, etc. Since the conductor line part is insulated, it is difficult to short-circuit even if it is bent or twisted.





▼**Yamagata University Innovation Center for Organic Electronics (INOEL)**

[Booth No. 3V-27] Flexible organic LED panels

Innovation Center for Organic Electronics (INOEL) at Yamagata University is a Center for advanced technology research in organic electronics. Yamagata University, companies, and public institutions are collaborating under one roof, and we promote technical development which realizes the industrialization.

▼**Yamagata University ROEL Printed Device Technology Research Division**

[Booth No. 3T-25] Flexible wireless communication biometric printed sensor

It is a very thin, light, bendable and printable biosensor capable of wireless communication.

▼**Future Ink** [Booth No. 3T-28] Printed Vital Sensor Sheet

We developed a printed pressure sensor sheet with high sensitivity and large area using a piezoelectric polymer material. It is possible to measure vital signals (pulse wave, respiration), and we are considering application to bed sensors. As a film type pressure sensor, it can be applied to various fields.

▼**Elephantech** [Booth No. 2U-02] Flexible printed wiring board P-Flex

Flexible printed wiring board (PWB) manufacturing technology that utilizes inkjet printing and copper plating.

▼**CEMEDINE** [Booth No. 2V-07, Flexible Electronics Experience Zone]

Conductive adhesive CEMEDINE SX-ECA series

It is a conductive adhesive that is cured from room temperature and has flexible cured physical properties. Electronic components can be mounted on films that can not be heated.

▼**Shimane Institute for Industrial Technology** [Booth No. 2Y-06]

Printed proximity sensor oriented to medical care, nursing care market

Flexible proximity sensor fabricated by printing method can detect conductors at a distance, so it is expected to be widely used such as bed leaving monitoring (presence / absence monitoring) at nursing field and respiratory monitoring at medical field. Currently, we are promoting development for practical application such as demonstration experiment of this sensor.

▼**YUASA SYSTEM** [Booth No. 2U-07]

Tension-Free Folding Clamshell-type

Clamshell type test machine can be tested by tiny banding radius. Not place the tensile stress on the sample.

(random order)

★Pre-registration for free admission: http://convertechexpo.com/en/for_visitors.html

★Seminars (RFID, Flexible OLED materials etc.):http://nanotech2018.jcdbizmatch.jp/en/Presentation/Info/Main/4

■■■■■■■■■■■■■■ Exhibition Outline ■■■■■■■■■■■■■■

Printable Electronics 2018

(Concurrent Events：neo functional material / 3Decotech Expo)

February 14 (Wed.)–16 (Fri.) 2018 at Tokyo Big Sight

【Organizer】Converting Technical Institute 【Co-organizer】JTB Communication Design

【Inquiry】

Converting Technology Exhibition Secretariat（c/o JTB Communication Design）

Contact persons: Suzuki / Uchiyama

Tel: +81-3-5657-0761 Email: kinousei@jtbcom.co.jp

Jtb Communication Design

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