Converting Technology Exhibition 2020

High-mix, Low-volume Production
Converting Equipment and Machinery

Functional Materials and Films

Surface Decoration and Product Design
Flexible Hybrid Electronics Wearable

Converting Builds Value

neo functional material 2020

Machinery zone
Materials zone
Neo functional paper / fiber zone
Composite materials zone
Material design / development solutions zone
Prototyping / Contracting zone

3Decotech Expo2020

Exhibition Guide

2020 1.29 (Wed.) ～ 31 (Fri.)
Tokyo Big Sight, West Hall 3,4

Organizer: Converting Technical Institute
Co-organizer: JTB Communication Design, Inc.
Outline

Date       January 29 (Wed.) - 31 (Fri.), 2020
Venue      Tokyo Big Sight West Hall 3, 4
Organizer  Converting Technical Institute
Co-organizer JTB Communication Design, Inc.
Exhibitors 250 Companies / 500 booths (expected)
Visitors   50,000 (including concurrent events)

Visitor Interest

◉ Fibers
Interest in usage and application fields for recycled carbon fiber regenerated from typically discarded CFRP scraps left over from the manufacture of aircraft, etc.

◉ Medicine and drugs
Finding materials and devices with the potential for application to regenerative medicine from the perspective of fusion with other fields.

◉ Semiconductor and electronic device manufacturing industry
Finding companies and research institutes that can offer solutions for placing nanoparticles into micrometer sized spaces using metallic ink.

◉ Trading companies
Finding next generation materials, particularly films as replacements for paints, for automobile, truck, and building material producers.

◉ Medical device manufacturing industry
Finding methods to measure surface conditions in water (surface hardness, hydration layer thickness, etc.), tribology related factors, and the correlation between comfort and lens water retention, etc., in order to develop comfortable contact lenses.
### New Value Generating Functional Materials

<table>
<thead>
<tr>
<th>Exhibit Categories</th>
<th>Machinery zone</th>
<th>Materials zone</th>
<th>Neo functional paper / fiber zone</th>
<th>Prototyping / Contracting zone</th>
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<tbody>
<tr>
<td>Neo functional paper / fiber zone</td>
<td>Composite materials zone</td>
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<tr>
<td><strong>NEW</strong></td>
<td>Composite materials zone</td>
<td>Material simulation (micro-structure/molecular simulation/MI), Modeling (physical/structural forecasting, etc.), Material process simulation, Analysis tools (big data/statistical, etc.), Other simulation software, Consulting</td>
<td>Buffering materials, filters, separators, biomass resources/materials, paper making machinery/pulp machinery/coaters, nonwoven fabric production machines/paper making machines,</td>
<td>Prototyping / Contracting zone: coating, adhesives, lamination, coating technology, surface treatment, slitting/cutting/die-cutting/punching, knurling/embossing, surface treatment, polishing, polymerization, formulation/synthesis, compounding, dispersion, grinding, contracted manufacturing, film forming, etc.</td>
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<td><strong>NEW</strong></td>
<td>Composite materials zone</td>
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<td><strong>Material design / development solutions zone</strong></td>
<td>Contracted Manufacturing: coating, adhesives, lamination, coating technology, surface treatment, slitting/cutting/die-cutting/punching, knurling/embossing, surface treatment, polishing, polymerization, formulation/synthesis, compounding, dispersion, grinding, contracted manufacturing, film forming, etc.</td>
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<td><strong>Prototyping / Contracting zone</strong></td>
<td>Services: research, analysis, measuring, prototyping, pilot production, OEM, R&amp;D support (test sample production, etc.), consulting, etc.</td>
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**Materials:** Flexible substrates (plastic films, textiles, paper, metal foils, glass, etc.), Conductive materials (metal particle dispersion inks, carbon inks, conductive pastes, sputtering pastes), Insulating/Sealing materials, Semiconductors (organic semiconductors, compounds, semiconductors, etc.), Other functional materials (fluorescent/phosphorescent dyes, haptic/piezoelectric materials, thermoelectric materials, etc.), Adhesives and other coatings, etc.

**Process Technologies:** Patterning (screen, gravure, flexo, offset, inkjet, thermal transfer, photolithography, etc.), Coating (slit-die, spray, spin, dip, vacuum deposition, sputtering, etc.), Laser processes (pattern exposure, ablation, annealing, surface modification, etc.), Nano-imprint (thermal/optical nano-imprint, mold making, molding, release, etc.), Drying, Curing, Sintering, etc.

**Devices:** Organic TFT (display sensor), OLED (display lighting), Display (LCD, e-paper, LED), Photovoltaics (dye-sensitized, OPV, perovskite, etc.), Flexible batteries (non-rechargeable, rechargeable, solid-state, etc.), Physical sensors (pressure, load, temperature, humidity, strain, vibration, acceleration, optical, etc.), Chemical/Bio-sensors (odor, glucose, EMG, ECG, breathing, blood sugar, uric acid, lactic acid, etc.), Biometrics, Wireless devices (RFID, wireless power supply, etc.), etc.

**Measurement/Analysis:** Onsite measurement/analysis, Embedded measurement/analysis, New measurement/analysis methods, Microscopes/Probes, Durability/Reliability evaluation, etc.

**Software:** Visualization software, AI (cloud, edge), Security, Services, Development tools, etc.

### Specialized in the Decoration Technologies that Create New Value through the Fusion of Ornamentation and Function

**Decorative Film/Transfer Foil:** in-mold lamination film, in-mold transfer film, overlay transfer film, overlay lamination film, water transfer film, deposition film, transfer foil, hologram film, etc.

**Decorative/Transfer Equipment:** 3D decorative molding technology, insert molding, in-mold lamination, in-mold decoration, surface decoration technology, trimming equipment, die-molds, etc.

**Converting Technology:** decoration, molding, graining, hair lining, sandblasting, heat & cool molding, decorative plating, coating, gloss application, finishing technologies, design, etc.
Future Exhibition Schedule

Venue: Tokyo Big Sight

Jan. 30-Feb. 1, 2019
- Materials zone, Neo functional paper / fiber zone
- Light-weighting materials zone, Prototyping / Contracting zone

Jan. 29-31, 2020
- Machinery zone, Neo functional paper / fiber zone, Composite materials zone
- Neo functional paper / fiber zone, Material design / development solutions zone, Prototyping / Contracting zone

Jan. 27-29, 2021
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About applying for exhibition, please contact to

Converting Technical Institute
6F, 3-4-6, Iwamoto-cho, Chiyoda-ku, Tokyo 101-0032
TEL:+81-3-3861-3858 FAX:+81-3-3861-3894
E-mail: kinouseii@ctiweb.co.jp
jflex@ctiweb.co.jp
con@ctiweb.co.jp

About exhibition operation, please contact to

JTB Communication Design, Inc.
Celestine Shiba Mitsui Bldg., 3-23-1, Shiba, Minato-ku, Tokyo 105-8335, Japan
TEL:+81-3-5657-0761 FAX:+81-3-5657-0645
E-mail: kinousei@jtbcom.co.jp
jflex@jtbcom.co.jp
convertech@jtbcom.co.jp