QUARTERLY NEWSLETTER

November 2019

2020—All Clear for Take-off

We are looking forward to an exciting 2020, including marking the 50th anniversary of SEMI. In 2019, Flextech and NBMC consortia members issued two requests for proposal in 2019 resulting in the award of $9.5 million and 16 collaborative R&D projects. The R&D focus on the advancement of leading edge FHE materials, integrated sensor systems, and medical wearables will be a spot light in a very productive coming year as the projects begin their first 12 months of development.

International flexible hybrid electronics supply chain members showcased regional advancement and priorities in FLEX Europe-Be-Flexible, FLEX China, and FLEX Southeast Asia in October and November. This leads us into the new year with FLEX 2020 and a new location in San Jose, California. Keep your eyes out for publication of the 3-day Technical Conference Agenda - it looks packed with new findings from a lot of industry development. FLEX 2020 will again be co-located with the MEMS and Sensors Technical Congress (MSTC), a premier technical forum for the sensors industry and with overlap in many end markets.

SEMI-Flextech in collaboration with Amy Research Laboratories was very pleased to kick-off a third R&D consortium in October with a PN&T (Position, Navigation & Timing) workshop held in San Diego, California. Look for a focused solicitation for proposals early next year. Join the PN&T mailing list to stay connected.

SEMI and you, our FlexTech members, are moving the needle on next generation flexible electronics and the innovative momentum is building.

Wishing all of you a happy and healthy holiday season.

Sincerely,

Dr. Melissa Gruppen-Shemansky

Project Updates

UPDATE: FlexTech and NBMC Focused Solicitations

We have 16 project teams progressing into the next stage of the Request for Proposals (RFP) procedure. As we finalize the contracts, announcements of the award recipients will be made at the beginning of 2020.

As a reminder, the FlexTech focused solicitation included topics on FHE sensor system reference designs, power, AI for additive manufacturing, mixed mode interconnect and metallization for high performance flexible electronics, and the human-machine interface. The NBMC focused solicitation topics included on wearable devices for ambulatory
monitoring capability, human-biochemistry monitoring capability, and cuffless blood pressure monitoring capability.

News and Announcements

**Position, Navigation & Timing (PN&T) Program kicks off with a Workshop at the MEMS & Sensors Executive Congress**

Last month, the PN&T workshop convened on October 22, 2019 in San Diego, CA for a half day workshop to investigate potential technologies to provide PN&T without global positioning system (GPS).

The afternoon started off with presentations from Teledyne Scientific & Imaging, A.M. Fitzgerald & Associates, Microchip, Planck Aerosystems, PARC and the Army Research Laboratory about the overviews of the three primary focuses: manufacturing capability, data fusion and time keeping.

Questions and challenges were addressed during the breakout groups concerning new materials for manufacturing integration, how to move away from GPS and more effective costs in navigation grade IMU and timing. Overall, the workshop was a great success and addressed many of the concerns and challenges PN&T will be facing moving forward.

PN&T will be releasing their first Focused Solicitation next year. Subscribe to the PN&T mailing list to stay up-to-date.

![Image](image.png)

**Subscribe to the mailing list**

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**FLEX 2020: TechTALK & Student Posters Call for Abstracts**

FLEX 2020's theme is "**See the Future with 20/20 Vision.**" We are looking for TechTALK presentations in the flexible electronics field to present on ground-breaking applications, processes and materials that are creating an impact on the future of electronic products.

Students from leading research universities are also especially welcome to submit posters. Participating students will present their findings to an esteemed panel of industry and academic experts at FLEX 2020 for a chance to take home the first prize at the Students Posters Competition. If you know a student who qualifies, please share this invitation with them.

Submit abstracts before **December 13th**. For additional time beyond the December 13th deadline, please contact Michelle Fabiano at mfabiano@semi.org. To learn more about the topic areas and submission requirements, click here.

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**NEW! FlexTech Videos**

The holidays came early! Check out these two new videos about FHE, SEMI-FlexTech and our mission. We hope that it makes you excited for what's to come in 2020.
Explore the SEMI-FlexTech R&D Programs

Technology Communities News

MEMS & Sensors Industry Group

- Just released, the MEMS Fab Report provides insight into front-end MEMS and sensors capacity over a period of 12 years.

Standards

- Watch the webinar on how to use SEMI Standards to enable proactive yield management for advanced nodes in ultra-pure water and liquid chemicals quality control.

Upcoming Events

FLEX 2020
San Jose, California, USA
SEMI  673 S. Milpitas Blvd.  Milpitas  California  95035  United States

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