Promoting Flexible Electronics

FlexTech is a SEMI Technology Community focused on the growth and success of the manufacturing and R&D ecosystem for flexible electronics (FE).

SEMI-FlexTech members enjoy special insights into the unique research and development funding program, connections with the fast-moving ecosystem of suppliers and customers, and exclusive SEMI member benefits.

ABOUT SEMI-FLEXTECH

For over 25 years, SEMI-FlexTech has been gathering industry, academia, the U.S. Government and not-for-profits, together in pursuit of a 3-part mission: Connect, Champion and Advocate for FE technology.

Flexible electronics (FE) are building blocks for products which are flexible, lightweight, low-power and contain sensors, power, and communications capability. Leveraging SEMI’s global footprint and membership base, SEMI-FlexTech is extending its reach and engaging with more organizations on the promise of FE products.

R&D PROGRAM

FlexTech’s R&D programs are unique examples of public/private partnerships. The U.S. Department of Defense has granted FlexTech multiple contracts to fund cooperative technology development in the area of flexible, printed and hybrid electronics.

The three programs under SEMI-FlexTech management include FlexTech, Nano-Bio Manufacturing Consortium (NBMC), and NextFlex, America’s Flexible Hybrid Electronics Manufacturing Institute, which operates as a semi-autonomous organization.

BENEFITS OF MEMBERSHIP

COMMUNITY: Join with other companies in supporting the manufacturing of flexible hybrid electronics.

LEVERAGE: Propose R&D projects to augment your company’s internal resources.

KNOWLEDGE: Engage in multiple forums with subject matter experts to assess technical trends and to obtain information to build your business development strategies.

PARTNERSHIPS: Identify and source global partners for potential collaboration through the SEMI network.

INFLUENCE: Participate in industry standards and technology road mapping activities.

SEMI-FLEXTECH FUNDING PROGRAMS

BECOME PART OF OUR COMMUNITY!
SEMI-FlexTech: A Global Gateway

CONFERENCES, EXHIBITIONS AND FORUMS
SEMI-FlexTech organizes regular gatherings of the flexible electronics community in major electronics manufacturing and design markets. Building on the success of the annual FLEX Conference, FLEX events are hosted around the world. FLEX events attract companies and academicians active in flexible and printed electronics to collaborate and thereby, accelerates the development and adoption of the technology into a wider variety of application spaces.

FIND AN EVENT NEAR YOU AT WWW.SEMI.ORG/EVENTS

INTERNATIONAL STANDARDS DEVELOPMENT
Standards for FE fall into several general categories, including:

- Metrics
- Materials
- Terms & Definitions
- Thin/Amorphous Silicon
- Test & Reliability

SEMI-FlexTech-NextFlex have joined forces with other standards-setting organizations (e.g. IPC) to plan for comprehensive coverage of standards for the sector, and decrease duplication. NextFlex also has a working group entirely focused on Gap Analysis for standards for FE manufacturing.

EXISTING STANDARDS APPLICABLE TO FE
SEMI has over 980 industry-developed Standards which can be utilized for FE with little or no modification, including:

SAFETY: Guidelines on Equipment Safety, Risk Assessment and Energy Conservation
MANUFACTURING EQUIPMENT PROTOCOLS: data acquisition, EDA, flow shop
DISPLAY: films & substrates, metrology, properties
SILICON: materials, test methods, terminology
3D & MEMS: thickness variation, warp/sori, flatness
PHYSICAL INTERFACES: in-fab transport

BECOME PART OF OUR COMMUNITY!
FlexTech is a SEMI Technology Community and is open to any SEMI member in good standing, worldwide.

If your organization is already a member of SEMI, expand your membership to include SEMI-FlexTech by calling your local SEMI membership office.

If you are not a member of SEMI, join now and request membership in SEMI-FlexTech.

Membership in the Technical Council and Governing Council has special requirements. Please contact us for more information.

FOR MORE INFORMATION
Call us today to learn more about the flexible, hybrid and printed electronics segments

SEMI-FLEXTECH MEMBERSHIP
Andy Knopes – aknopes@semi.org

FE & SEMI STANDARDS
Inna Skvortsova - iskvortsova@semi.org

FLEXTECH & NBMC R&D PROGRAM
Elizabeth Marzili – emarzili@semi.org

SEMI-FLEXTECH & NBMC MARKETING & COMMUNICATIONS
Heidi Hoffman – hhoffman@semi.org

www.flextech.org