SEMICON Europa 2014 moves to Grenoble to expand European market opportunities.

In 2014, SEMICON Europa will be held in Grenoble (France) for the first time, starting a new long-term strategy for the event, which will rotate in alternate years between Grenoble and Dresden (Germany), two of Europe’s largest microelectronics clusters. With the support of public and private stakeholders in France, Germany and across Europe, the new SEMICON Europa strategy will enable exhibitors to reach new audiences and buyers and take full advantage of the “EU10/100/20” initiative.

New EU10/100/20 Strategy Aims to Expand Competitiveness and Market Share.

The European Union’s new strategic focus on semiconductor manufacturing aims to attract and incentivize new investment in Europe with a target of expanding the European market share of global chip production to 20% by 2020 through public/private investment of 10bn EUR and 100bn EUR from industry. This aggressive and ambitious support of the European microelectronics industry will create significant opportunities for equipment and materials suppliers over the coming decade. The European market is poised to grow in 2014, with equipment and materials sales exceeding 7bn US$.

KEY TOPICS AT SEMICON EUROPA 2014

- Semiconductor Manufacturing Technology
  - 450mm transition
  - Lithography and EUV
  - Metrology
  - New materials
  - 3D IC and TSV
  - Automation
  - Secondary / Refurbished Equipment
- Contemporary Test and Packaging Challenges and Innovations
- Research and Development
- MEMS / MST
- Imaging (new)
- Energy Efficiency (new)
- Plastic Electronics

KEY FOCUS AT SEMICON EUROPA 2014

- Innovation
- Applications
Welcome to Grenoble – Bienvenue à SEMICON Europa 2014!

INNOVATION FOR INDUSTRY
A dynamic economy linked to research

Leading national and international companies have come to the Grenoble area to benefit from our scientific research. STMicroelectronics, IBM, Schneider Electric, France Telecom, Thales, Hewlett Packard, Soitec, Teisserie, Vicat, Xerox and others have all chosen Grenoble. The city’s strong economy also stems from companies specialized in outdoor products such as the world-renowned Petzl and Rossignol. Last but not least, more traditional industries branching out to chemistry, heavy manufacturing, timber and paper, still have a prominent role to play, thanks to companies such as Caterpillar, Alstom Hydro Power, Pomagalski and A. Raymond.

A scientific hub unlike any other in the world with:
- 3,600 researching professors in 129 university laboratories
- 3,700 doctoral students, 45% of whom are foreigners
- 9 national research bodies: CNRS, CEA, IRSTEA, CEN, CRSSA, INRA, INRIA, INSERM, IRD
- 5 major international facilities: ESRF, ILL, EMBL, GHMFL, IRAM
- 14,000 visiting foreign scientists every year
- 3 competitive centers: Minalogic, Tenerrdis, Axelera
- The Minalogic cluster fosters research-led innovation in intelligent miniaturized products and solutions for industry. Located in Grenoble (France), the cluster channels in a single physical location a range of highly-specialized skills and resources from knowledge creation to the development and production of intelligent miniaturized services for industry.

GRENOBLE WELCOMES THE WORLD

ALPEXPO is the place in Grenoble where SEMICON Europa 2014 will be hosted. Recently revamped, the venue’s unique, elegant architecture truly sets it apart and pays tribute to the vision of architect Jean Prouvé who initially designed ALPEXPO for the 1968 Winter Olympics.

Two international airports:
- Lyon Saint-Exupéry Airport (1 hour from Grenoble)
- Geneva Airport (1 hour 45 min from Grenoble)

Arriving by train:
- Central train station ideally located in the city center
- 3 hours from Paris (on the high speed TGV train)
SEMICON Europa Programs – focus on current industry needs

The SEMICON Europa technology and business program agenda addresses the critical issues and challenges facing the microelectronics industries and provides the information, education, and guidance that you need to move your innovations and products to market. The 2014 program will include the following key focus areas.

**SEMICONDUCTOR TECHNOLOGY PROGRAMS**
- 18th Fab Managers Forum
- Next generation lithography
- Emerging research materials
- 450mm wafer transition
- Secondary equipment session
- Metrology, process control, automation and software
- Workshop on equipment assessment and equipment performance improvements
- International MEMS Industry Forum
- MEMUNITY Workshop

**TEST AND PACKAGING**
- Advanced Packaging Conference
- 3D TSV Session
- 16th European Manufacturing Test Conference (EMTC)

**PLASTIC ELECTRONICS CONFERENCE**
- Hybrid and Heterogeneous Integration
- Organic Electronics
- OLEDs, Displays and Lighting
- Integrated Smart Systems

**EXECUTIVE AND MARKET**
- 8th Executive Summit and Reception
- SEMI Market Briefing
- European Semiconductor Cluster Forum

**NEW PROGRAMS IN 2014**
- Imaging Conference
- Low Power Conference
- Power Electronics Conference
- Silicon Innovation Forum
- Innovation Conference
- EEC – European Electronics Conference of ACSIEL
- Visit of Grenoble R&D and Industrial Sites

**TechARENA**

TechARENAS at SEMICON Europa are the place to hear about the latest technology developments and breakthroughs in semiconductor manufacturing. From presentations on cutting-edge materials to the latest news on next-generation lithography, 450mm, and other major industry initiatives, the TechARENAS are the place to find out what's new and what's next in microelectronics.

All exhibiting companies have the opportunity to present their latest products and new technologies at the TechARENA exhibitor presentations sessions.

Please contact SEMI, if you are interested in becoming a presenter.
Exhibition Segments

SEMICONDUCTOR MANUFACTURING AND TECHNOLOGY

EQUIPMENT
- Wafer processing
- Inspection and measurement
- Assembly and test
- MEMS and nanotechnology
- Flat panel display
- Organic, large area and printed electronics

MATERIALS
- Gases
- Chemicals and solids
- Fluids
- Mask making
- Process
- Substrate
- Assembly and test
- MEMS and nanotechnology
- Flat panel display
- Organic, large area and printed electronics

- COMPONENTS, PARTS AND ACCESSORIES
- SUB-SYSTEMS
- FACTORY MONITORING AND CONTROL SYSTEMS
- HVAC, TEMPERATURE, HUMIDITY, CONTAMINATION CONTROL
- MATERIAL HANDLING SYSTEMS
- COMMUNICATION SOFTWARE
- DESIGN SOFTWARE
- MANUFACTURING SOFTWARE
- SIMULATION, ANALYSIS AND MODELING SOFTWARE
- MANUFACTURING SERVICES AND CONSULTING
- DISTRIBUTORS AND LOGISTICS
- EDUCATIONAL AND RESEARCH INSTITUTIONS
- FINANCIAL AND PROFESSIONAL SERVICES
- SUPPORT PRODUCTS

INNOVATION VILLAGE

START-UP ZONE

CLUSTER PAVILIONS

SHOW AND DEMONSTRATOR AREA

ELECTRONIC COMPONENTS

COMPONENTS
- Devices makers and integrated device manufacturers (IDM)
- MEMS and sensor manufacturers
- Discrete and passives components
- Flexible, printed and organic-electronics manufacturers
- LED and organic lighting manufacturers
- PCB assembly and manufacturing

DESIGN
- Fabless/design houses
- Intellectual property (IP) vendors
- Electronic design automation (EDA)/software
- Modeling

NEW IN 2014

ELECTRONIC APPLICATIONS

HEALTHCARE
- Lab-on-a-chip
- Implantable devices
- Portable devices
- Wearable devices
- Flexible intelligent devices
- E-health
- Sensors
- Connected systems

IMAGING
- CCD, CMOS and organic sensors
- Optics and micromechanics
- Cameras and camera modules
- Image processing software and systems

ENERGY
- Electronic systems for high, medium, and low voltage
- Power semiconductors, power management ICs, passive components
- Power supplies and batteries
- Energy harvesting solutions
- Smart grid technologies
- Software

SECURITY
- Security systems
- Digital identification systems
- Biometrics solutions
- Encryption technologies
- Protection of personal data

NEW IN 2014
VISITOR PROFILE
SEMICON Europa attracts a highly influential audience from every segment and sector of the European microelectronics industries, including semiconductors, LEDs, MEMS, printed/organic/flexible, and other adjacent markets.

SEMICON EUROPA POST-SHOW DATA

29% Purchasing Authority
28% Final Decision Maker
43% Recommend / Evaluate
29% No Role / Other
16% Executive Management
15% Senior Management
31% Other Management
8% Staff Level / Professional

EXHIBITOR PROFILE
SEMICON Europa exhibitors are the suppliers to and partners of Europe’s leading microelectronics companies.

MARKETS REPRESENTED
- Semiconductors
- LEDs/Solid State Lighting
- MEMS
- Printed/Organic Electronics
- Nano-Electronics
- Flat Panel Display (FPD)
- Photovoltaics/PV

SAMPLE PRODUCT CATEGORIES
MANUFACTURING EQUIPMENT
- Front-end Manufacturing Equipment
- Thin Film Manufacturing Equipment
- Test Equipment
- Assembly and Packaging Equipment
- Inspection and Measurement/Metrology

MATERIALS
- Wafers and Substrates
- Process Materials
- Chemicals and Solids
- Gases
- Test Materials
- Assembly and Packaging Materials

SOFTWARE, OTHER PRODUCTS AND SERVICES
- Sub-Systems
- Components Parts and Accessories
- Factory Control Automation/Facilities
- Support Products (includes consumables)
- Secondary Products and Services
- Software: Manufacturing/Factory Automation
- Software: Electronic Design (EDA)/Silicon Intellectual Property (IP)
- Manufacturing Services/Consulting
- Business Services/Consulting

KEY VISITING COMPANIES AND ORGANIZATIONS
SEMICON Europa attracts visitors from every major European microelectronics company, including buying teams from leading IDMs, foundries, fabless, OSAIs, and OEMs.

TOP VISITING COMPANIES

ABB
Advanced Mask Technology Center
Atmel
Austriamicrosystems
BAE Systems
Bosch
Diodes Zetex Neuhaus
Elmos
EM Microelectronic Marin
EPCOS
Freescale Semiconductor
GLOBALFOUNDRIES
Heiman Sensor
Honeywell
IBM
IMEC

Partial list and data; see the SEMICON Europa 2012 Post-Show Report online at www.semiconeuropa.org for additional details and information.
10th Plastic Electronics Conference
Combining printed and plastic electronics with traditional electronics to innovate the future.
The Plastic Electronics Conference taking place in Grenoble is the leading international technology-to-industry and industry-to-industry event focused on organic and large area electronics as well as hybrid and heterogeneous integration.
This conference is the only event bridging applications and manufacturing technologies of flexible electronics and traditional semiconductors. It is the premium forum to discuss innovative new industrial products with the goal of developing techniques that allow mass manufacturing.

KEY FOCUS AREAS AT PLASTIC ELECTRONICS 2014
• Hybrid and Heterogeneous Integration
• Flexible Displays and Lighting
• Flexible and Organic Energy: Photovoltaics, Batteries
• Printed and Flexible Components: Sensors, Transistors, Actuators, Memories
• Novel System Approaches for mass volume ramp up
• From Lab to Fab: Unique focus on connecting research and manufacturing

MANUFACTURING INTEGRATED SMART SYSTEMS BASED ON HYBRID AND HETEROGENEOUS INTEGRATION
The real promise for the future in plastic electronics is expected to be founded on solution based printed devices, applications and products on flexible substrates. Considerable progress has been made over the past months, and a whole class of new products is expected to enter the respective markets in the midterm. The evolving “ecosystem” in integrated smart systems involves extensive cooperation between application developers, material firms, printers, equipment makers, and a wide range of firms making printed electronic components. It takes a complete printed electronics supply chain to develop and to manufacture fully integrated products. In most cases this demand for integration competences and resources exceeds the scale and scope of a single company.

EXHIBITION
The Plastic Electronics exhibition area will be fully integrated in the different segments for equipment materials, components and applications.

BE PART OF THE COMMUNITY!
Presentations from top professionals in the field on all three aspects of this amazing new technology area leading to manufacturing, will be drawing your attention and your attendance.

“Organic Electronics Saxony welcomes the alternating change between Dresden and Grenoble. Especially for the external and international visitors this biannual rotation will make the Plastic Electronics even more attractive. Visitors do always have a growing interest in visiting companies and institutes on site, and the mutual relocation is not only offering this new and exciting opportunity. Moreover it opens up a constantly enriching visit program for everyone.”
BOOTH CONFIGURATION AND COSTS

RAW SPACE
Raw booth spaces are available as in-line, peninsula, and island configurations. This option is the right solution for companies with custom exhibits. Raw space covers floor rental only and does not include utilities, furnishings, labor or other services.

RAW SPACE PRICE
Booth space is allocated on a first come first served basis. Standard booths are sold in increments of 9 square meters (3m x 3m) but other options are possible upon request.
- SEMI Member 295 EUR/sqm (+20% VAT for non-French companies)
- Non-member 395 EUR/sqm (+20% VAT for non-French companies)

PAVILION PACKAGES
These booth packages are designed for exhibitors looking for a one-stop solution that includes hardwall construction, floor space rental, furnishings, labor, utilities, and other services. For more details visit www.semiconeuropa.org.

ABOUT SEMI
SEMI is the global industry association serving the manufacturing supply chain for the micro- and nano-electronics industries, including semiconductors, photovoltaics, LED, plastic/printed/organic electronics, MEMS, flat panel display (FPD), and related markets.
For more than 40 years, SEMI has served its members and the industries it represents through programs, initiatives, and actions designed to advance business, and market growth worldwide. SEMI supports its members through a global network of offices, activities, and events in every major electronics manufacturing region around the world.