



## MEMS & SENSORS INDUSTRY GROUP— MSIG GOVERNING COUNCIL

The MSIG is a leading group of 150+ companies throughout the ecosystem that collaborate and share ideas to help ease the adoption of MEMS and sensors.

Thank you to the MSIG Governing Council Members for their time, expertise, and dedication to our industry and to SEMI.

### CHAIR

Stefan Finkbeiner | [Bosch Sensortec](#)

### VICE-CHAIR

Omar Abed | [TDK InvenSense](#)

### COUNCIL MEMBERS

Sabah Sabah | [Analog Devices](#)

Craig Ensley | [CalTexan Technologies](#)

David Kirsch | [EV Group](#)

Bernhard Straub | [Infineon Technologies](#)

Terence Gan | [Institute of Microelectronics](#)

John Chong | [Jib Technology](#)

Seong-Hyok Sean Kim | [LG Electronics](#)

Lorie Burmood | [NXP](#)

Becky Oh | [PNI Sensor Corporation](#)

Len Sheynblat | [Qualcomm Technologies](#)

Jessica Gomez | [Rogue Valley Microdevices](#)

Bassam Saadany | [Si-Ware Systems](#)

Mary Ann Maher | [SoftMEMS](#)

Anton Hofmeister | [STMicroelectronics](#)

Claude Jean | [Teledyne Imaging](#)

Sean Ding | [Vanke](#)

Mark Ding | [Xinyilu](#)

## PRESENTATIONS & ON-DEMAND ACCESS



Presentation access will be available after the event. Details to follow.

Questions? Contact Michelle Fabiano at [mfabiano@semi.org](mailto:mfabiano@semi.org)



**Stay in Touch with MSIG**  
Join Our Interest List and  
Other Technology Communities



**Connect and share your experience!**  
**#SEMI\_MSEC**

**Thank You for Attending  
MSEC 2024**



## 2024 MSEC Executive Planning Committee

### COMMITTEE MEMBERS

Andrew Fung  
[AM Fitzgerald & Associates](#)

Marcellino Gemelli  
[Bosch Sensortec](#)

Craig Ensley  
[CalTexan Technologies](#)

Anartz Unamuno  
[Erdieroale](#)

David Kirsch  
[EV Group](#)

Roberto Condorelli  
[Infineon Technologies](#)

Michelle Bourke  
[Lam Research](#)

Vijaye Rajaraman  
[MicroSenz Technology & Management Consulting](#)

Debra Deininger  
[N5 Sensors](#)

Jim Reed  
[Okmetic](#)

Galya Stoeva  
[Okmetic](#)

Anson Yeganegi  
[TDK USA Corporation](#)

Sebastien Michel  
[Teledyne MEMS](#)

Philippe Monnoyer  
[VTT](#)

Stefan Ernest  
[X-FAB](#)

## THANK YOU TO OUR 2024 SPONSORS

Be sure to visit the Platinum, Gold, and Bronze Sponsors' tabletop displays

### PLATINUM



### GOLD



### BRONZE



### EVENT



SENSORIZATION: ENABLING A NEW INTELLIGENCE

### WELCOME TO MSEC 2024

#### MSEC WELCOME RECEPTION

Monday, October 7 | 5:00–7:30pm

45 Bd de l'Aéroport, Bromont, QC J2L 1S8



MONDAY, OCTOBER 7

12:00–5:00pm Registration Opens

1:00–5:00pm **C2MI Group Tour**—Step into the heart of innovation with a behind-the-scenes tour at C2MI. Discover firsthand how C2MI is at the forefront of microfabrication and sensor advancements. Don't miss your chance to connect, explore, and be inspired by the technologies shaping tomorrow.

5:00–7:30pm **Welcome Reception at C2MI**

*Sponsors*



TUESDAY, OCTOBER 8

7:00am Registration

8:00 **Welcome Remarks**

8:10 **Opening Remarks—MSIG**

Mary Ann Maher, Chief Executive Officer, **SoftMEMS LLC**

**SESSION 1 MSEC 2024 KEYNOTES**

**Session Chair** Anson Yeganegi, Director of Business Development, **TDK US Corp**

8:25 **KEYNOTE—A Message from EV Group, MSEC 2024 Platinum Sponsor**

David Kirsch, Vice President and General Manager North America, **EV Group**

8:30 **KEYNOTE—The Past, Present and Future of MEMS**

Alissa M. Fitzgerald, PhD, Founder and Chief Executive Officer, **AM Fitzgerald & Associates**

9:00 **KEYNOTE—The Seven Steps to Bring AI Tools Inside a Semiconductor Company**

Marcellino Gemelli, Business Development and Alliance Management, **Bosch Sensortec**

9:30 **Networking Break**

10:15 **KEYNOTE—Voice of the Future: AI-Driven Interactions Powered by High-SNR MEMS Microphones**

Bernhard Straub, Head of MEMS Consumer Sensors, **Infineon AG**

*Sponsor*



**SESSION 2 MSEC 2024 PRODUCT SHOWDOWN: AR/VR TECHNOLOGY**

*Session Chair* Andrew Fung, Director of Business Development, **AM Fitzgerald & Associates**

*Sponsor* 

10:45 **Product Showdown Introduction**

Oliver Foellmer, Product Marketing Manager, **X-FAB MEMS Foundry GmbH**

10:55 **High Accuracy Gesture Detection Using Standard IMU Sensors**

Ohto Pentikäinen, Co-Founder and Chief Executive Officer, **Double Point**

11:10 **Smart Glasses with Eye Tracking: The Optimal Front-End for AI Assistants**

Neil Sarkar, Chief Executive Officer, **AdHawk Microsystems**

11:20 **USound MEMS Speakers Technology and Applications**

Andrea Rusconi Clerici, Chief Technical Officer, **Usound GmbH**

11:30 **Product Showdown Closing**

**Lunch, Product Showdown & Canadian Startup Demonstrations**

**SESSION 3 NAVIGATING THE FUTURE: EMERGING MEMS & SENSORS MARKET TRENDS AND ECOSYSTEM CHALLENGES**

**Session Chair** Craig Ensley, Chief Executive Officer, **CalTexan Technologies**

1:00pm **Taking the Pulse of the MEMS & Sensors Sector**

Paul Carey, Director of MEMS and Sensors Industry Group, **SEMI**

1:15 **Market Dynamics and Strategic Outlook for the MEMS Industry**

Pierre Delbos, Technology Market Analyst, Sensing and Actuating, **Yole Group**

1:40 **The Bromont Ecosystem: A Complementary Solution for the CMOS Industry**

- Annie Dallaire, Vice-President, Business Development, **C2MI**
- Isabel De Souza, Advisory Engineer, **IBM Canada**
- Normand Bourbonnais, President and Chief Executive Officer, **Technum Zone**
- Sebastien Michel, Vice President and General Manager, **Teledyne MEMS**

2:05 **Microelectronic Cooling Advancements Through MEMS Processing**

John Knickerbocker, Distinguished Engineer, **IBM**

2:30 **Networking Break**

**SESSION 4 MEMS & SENSORS INDUSTRY TRENDS & SUSTAINABLE FUTURE**

**Session Chair** Galya Stoeva, Vice President Sales North America, **Okmetic**

3:00 **Gas Sensors for a Sustainable Society**

Doris Ng Keh Ting, Principal Scientist, Photonics and Sensors, Institute of Microelectronics, **IME, A\*STAR**

3:25 **Unlocking Novel Opportunities: How 300mm-Capable MEMS Foundries Will Change the Game**

Jessica Gomez, Founder and Chief Executive Officer, **Rogue Valley Microdevices**

3:50 **Matching Applications to Technology Nodes: From MEMS on Panel to Nanophotonics Readout for 300mm MEMS**

Xavier Rottenberg, Fellow, Scientific Director and Group Leader, Wave-Based Sensors and Actuators, **imec**

4:15 **Human–Machine Collaboration for Improving Semiconductor Process Development**

Michelle Bourke, Managing Director, Strategic Marketing, Customer Support Business Group, **Lam Research**

4:40–4:50 **Day 1 Closing Remarks**

Timothy Brosnihan, PhD, Executive Director of MSIG and Fab Owners Alliance, **SEMI**

6:00–8:00 **AWARDS CEREMONY & DINNER**

*Sponsor* 

**Presentation of the Emerging Leaders Awards, MSIG Hall of Fame Awards, and the Product Showdown Winner**

Timothy Brosnihan, PhD, Executive Director of MSIG and Fab Owners Alliance, **SEMI**

WEDNESDAY, OCTOBER 9

7:00am **Breakfast**

8:00 **Welcome**

Timothy Brosnihan, PhD, Executive Director of MSIG and FOA, **SEMI**

**SESSION 5 NORTHERN LIGHTS: CANADIAN START-UP PITCHES**

**Session Chair** Sebastien Michel, Vice President and General Manager, **Teledyne MEMS**

Watch the Canadian MEMS & Sensors entrepreneurs, who dare to enter the Tank, try to convince the Sharks to to fund their million-dollar dreams and part with their cash—even if it's just play money!

**MSIG Shark/Investor Panel:**

- Martin Enault, Strategic Consultant, Distriq, Quantum Innovation Zone and Chief Entrepreneur in Residence, **Centech, DistriQ—Zone Innovation Quantique**
- Paul Pickering, Managing Partner, **Silicon Catalyst**
- To Be Announced

8:15 **Start Up—Reprogrammable Photomask for Direct Writing Lithography**

Richard Beaudry, Chief Executive Officer, **Digitho**

8:33 **Start Up—In-Sensor Intelligence**

Marie-Eve Desrochers, Co-Founder and Product Lead, **echosonic**

8:51 **Start Up—Empowering Tailored Micro Technology**

Alaric Bergeron, Research & Development Scientist, **NXTSENS Microsystems**

9:09 **Start Up—To Be Announced**

9:27 **Closing Remarks & Audience Voting for Northern Lights Start-up Winner**

Sebastien Michel, Vice President and General Manager, **Teledyne MEMS**

9:30 **Networking Break**



### MSIG HALL OF FAME AND EMERGING LEADERS AWARDS DINNER

Tuesday, October 8

6:00–8:00pm | Salon C



Teledyne MEMS

**SESSION 6 SESSION 6: ADVANCEMENTS IN POSITIONING, NAVIGATION, AND TIMING**

**Session Chair** Michelle Bourke, Managing Director, Strategic Marketing, Customer Support Business Group, **Lam Research**

10:00 **3DS (3D System) MEMS Inertial Sensor Platform: Navigation Grade, Multi-Axis 3DoF MEMs Accelerometer**

Louis Ross, Chief Executive Officer, **MEI Micro**

10:20 **New 9-Axis Solution for GPS Denied Applications**

Camilo Delgado, Senior Director, Product Marketing, **TDK InvenSense**

10:40 **AI Applications to Enhance MEMS Inertial Sensors in Aerospace**

Andrew Stewart, Senior R&D Manager, AI and Computer Vision, **Honeywell**

**SESSION 7 MSEC 2024 CLOSING KEYNOTES**

**Session Chair** Marcellino Gemelli, Business Development and Alliance Management, **Bosch Sensortec**

11:00 **KEYNOTE—Sensors for AI and AI for Sensors**

Dan Cohen, Commercialization Director, **Google X**

11:30 **KEYNOTE—A New Wave of Sensors for Vital Sign Monitoring**

Marco Angelici, Vice President, **STMicroelectronics**

12:00 **Northern Lights Start-Up Winner Announcement & Conference Closing Remarks**

Timothy Brosnihan, PhD, Executive Director of MSIG and Fab Owners Alliance, **SEMI**

Agenda Subject to Change

### PRODUCT SHOWDOWN: AR/VR TECHNOLOGY

#### TUESDAY, OCTOBER 8

10:45–11:45am—PRESENTATIONS

11:00am–1:00pm—DEMONSTRATIONS

*Knowlton & Nouvelle-Angleterre AB*

- High Accuracy Gesture Detection Using Standard IMU Sensors** | **Double Point**
- Smart Glasses with Eye Tracking: The Optimal Front-End for AI Assistants** | **AdHawk Microsystems**
- USound MEMS Speakers Technology and Applications** | **Usound GmbH**

**Cast Your Vote for the Winner!**

*Sponsor* 