

# Agenda for the 2023Q3 CMC Meeting

**KIOXIA, Ofuna, Kanagawa, Japan**

**Thursday, September 14, 2023**

*Version 3*

## **MEMBERS AND GUEST COMPANIES ONLY**

- |          |                                 |   |
|----------|---------------------------------|---|
| 9:00 AM  | Introductions (5 min.)          | Peter Lee (Micron)  |
|          | Greetings from KIOXIA           | Hideyuki Kobayashi, Director<br>KIOXIA Yokohama Technology Campus |
| 9:05 AM  | Agenda Review (5 min.)          | Peter Lee (Micron)  |
| 9:10 AM  | Update from Si2 (30 min.)       | Rob Aslett (Si2)  |
| 9:40 AM  | Treasurer's Report (5 min.)     | Takeshi Naito (KIOXIA)  |
| 9:45 AM  | CMC Operational Items (15 min.) | Peter Lee (Micron)  |
| 10:00 AM | Break (10 min.)                 |   |

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- |          |                              |  |
|----------|------------------------------|--|
| 10:10 AM | EDA Vendor Reports (30 min.) | EDA Vendors  |
| 10:40 AM | HiSIM2 (15 min.)             | Takeshi Naito (KIOXIA)   |
| 10:55 AM | HiSIM_HV (15 min.)           | Takeshi Naito (KIOXIA) (acting)  |
| 11:10 AM | HiSIM-SOI/SOTB (30 min.)     | Yasuyuki Sahara (Tower Semiconductor) for Samir Chaudhry (Tower Semiconductor) |
| 11:40 AM | BSIM-Bulk (15 min.)          | Colin Shaw (Silvaco) for Kaiman Chan (TI)                                      |
| 11:55 AM | Group Photo (10 min.)        |  |
| 12:05 PM | Lunch (55 min.)              | In the meeting room  |

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- |         |                    |   |
|---------|--------------------|---|
| 1:00 PM | BSIM-CMG (15 min)  | Colin Shaw (Silvaco)  |
| 1:15 PM | BSIM-SOI (15 min.) | Tanvir Morshed (GlobalFoundries) for Anupam Dutta (GlobalFoundries) |
| 1:30 PM | BSIM-IMG (15 min.) | Tanvir Morshed (GlobalFoundries)                                    |
| 1:45 PM | PSP (15 min.)      | Colin Shaw (Silvaco) for Gert-Jan Smit (NXP)                        |
| 2:00 PM | L-UTSOI (15 min.)  | Harrison Lee (Samsung)  |
| 2:15 PM | MVSG_CMC (15 min.) | Colin Shaw (Silvaco)  |
| 2:30 PM | ASM-HEMT (15 min.) | Colin Shaw (Silvaco)  |
| 2:45 PM | ASM-ESD (15 min.)  | Tanvir Morshed (GlobalFoundries) for Meng Miao (GlobalFoundries)    |
| 3:00 PM | ESD FET (15 min.)  | Tanvir Morshed (GlobalFoundries) for Meng Miao (GlobalFoundries)    |
| 3:15 PM | Break (15 min.)    |   |

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- |         |   |  |
|---------|---|--|
| 3:30 PM | Model QA and Release (15 min.)                                      | Peter Lee (Micron) for Shahriar Moinian (Broadcom)     |
| 3:45 PM | Verilog-A Recommended Practices (15 min.)                           | Peter Lee (Micron) for Geoffrey Coram (Analog Devices) |
| 4:00 PM | OMI (15 min.)   | Colin Shaw (Silvaco)                                   |
| 4:15 PM | Random Telegraph Noise (15 min.)                                    | Colin Shaw (Silvaco)                                   |
| 4:30 PM | SiC (15 min.)   | Colin Shaw (Silvaco)                                   |
| 4:45 PM | Memristor Model Standardization (15 min.)                           | Colin Shaw (Silvaco)                                   |
| 5:00 PM | Adjourn => Bus to the bay cruise departure dock (arrive by 6:30 PM) |  |
| 6:45 PM | Tokyo Bay Dinner Cruise (2 hours)                                   |  |

# Agenda for the 2023Q3 CMC Meeting

## KIOXIA, Ofuna, Kanagawa, Japan

### Friday, September 15, 2023

#### **ALL (includes Model Developers)**

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|----------|--|--|
| 9:00 AM  | Agenda Review (5 min.)   | Peter Lee (Micron)   |
| 9:05 AM  | Next Meeting Locations (10 min.)   | Jushan Xie (Cadence)   |
| 9:15 AM  | Self-Heating Model Standardization (15 min.)   | Richard Wachnik (IBM)  |
| 9:30 AM  | One-page Group Summaries (30 min.)   | All work group chairs  |
| 10:00 AM | Next Meeting Planning (10 min.)  | Peter Lee (Micron)   |
| 10:10 AM | Action Items Review (10 min.)  | Tanvir Morshed (GlobalFoundries)   |
| 10:20 AM | Guest Presentation (45 min.)<br>"Development of Cryogenic Transistor Models<br>for Fault-Tolerant Quantum Computers" | Prof. Kazutoshi Kobayashi and<br>Prof. Michihiro Shintani (Kyoto<br>Institute of Technology) |
| 11:05 AM | Adjourn  |  |

## Officers/Advisors

Position	Name
Chairman	Peter M. Lee (Micron) ( <a href="mailto:pmlee.si2@icloud.com">pmlee.si2@icloud.com</a> )
Vice-Chairman	Jushan Xie (Cadence) ( <a href="mailto:jushan@cadence.com">jushan@cadence.com</a> )
Secretary	Tanvir Morshed (GlobalFoundries) ( <a href="mailto:Tanvir.Morshed@globalfoundries.com">Tanvir.Morshed@globalfoundries.com</a> )
Treasurer	Takeshi Naito (KIOXIA) ( <a href="mailto:takeshi.naito@kioxia.com">takeshi.naito@kioxia.com</a> )
Technical Advisor: Verilog-A Code Quality Improvement	Geoffrey Coram (Analog Devices) ( <a href="mailto:geoffrey.coram@analog.com">geoffrey.coram@analog.com</a> )
Technical Advisor: Model QA and Release	Shahriar Moinian (Broadcom) ( <a href="mailto:shahriar.moinian@Broadcom.com">shahriar.moinian@Broadcom.com</a> )

Term for the four officers: 2022 – 2023  
Term for the Technical Advisors: unlimited

## Active Work Groups in the CMC

Work Group Names (CMOS Devices)	Chair
BSIM-Bulk	Kaiman Chan (Texas Instruments) ( <a href="mailto:kaiman.chan@ti.com">kaiman.chan@ti.com</a> )
BSIM-CMG	Colin Shaw (Silvaco) ( <a href="mailto:colin.shaw@silvaco.com">colin.shaw@silvaco.com</a> )
BSIM-SOI	Anupam Dutta (GlobalFoundries) ( <a href="mailto:anupam.dutta@globalfoundries.com">anupam.dutta@globalfoundries.com</a> )
BSIM-IMG	Tanvir Morshed (GlobalFoundries) ( <a href="mailto:tanvir.morshed@globalfoundries.com">tanvir.morshed@globalfoundries.com</a> )
HiSIM2	Takeshi Naito (KIOXIA) ( <a href="mailto:takeshi.naito@kioxia.com">takeshi.naito@kioxia.com</a> )
HiSIM_HV	(vacant)
HiSIM_SOI, HiSIM_SOTB	Samir Chaudhry (Tower Semiconductor) ( <a href="mailto:Samir.Chaudhry@towersemi.com">Samir.Chaudhry@towersemi.com</a> )
PSP	Andries Scholten (NXP) ( <a href="mailto:andries.scholten@nxp.com">andries.scholten@nxp.com</a> ) and Gert-Jan Smit (NXP) ( <a href="mailto:gert-jan.smit@nxp.com">gert-jan.smit@nxp.com</a> )
L-UTSOI	Harrison Lee (Samsung) ( <a href="mailto:lhw114@Samsung.com">lhw114@Samsung.com</a> )

## Active Work Groups in the CMC (continued)

Work Group Name (Bipolar Devices)	Chair
HICUM/L0 & HICUM/L2	Didier Celi (ST Micro) ( <a href="mailto:didier.celi@st.com">didier.celi@st.com</a> )
Mextram	Wei Chen (Texas Instruments) ( <a href="mailto:wei.chen@ti.com">wei.chen@ti.com</a> )

Work Group Name (Other Devices)	Chair
ASM-HEMT, MVSG_CMC	Colin Shaw (Silvaco) ( <a href="mailto:colin.shaw@silvaco.com">colin.shaw@silvaco.com</a> )
ASM-ESD Diode Model	Meng Miao (GlobalFoundries) ( <a href="mailto:meng.miao@globalfoundries.com">meng.miao@globalfoundries.com</a> )
MOSVAR, Resistor Models	Geoffrey Coram (Analog Devices) ( <a href="mailto:geoffrey.coram@analog.com">geoffrey.coram@analog.com</a> )
SiC (not yet a standard)	Colin Shaw (Silvaco) ( <a href="mailto:colin.shaw@silvaco.com">colin.shaw@silvaco.com</a> )
ESD FET (not yet a standard)	Meng Miao (GlobalFoundries) ( <a href="mailto:meng.miao@globalfoundries.com">meng.miao@globalfoundries.com</a> )



## Active Work Groups in the CMC (continued)

Work Group Name (Other Standards)	Chair
OMI API	Colin Shaw (Silvaco) ( <a href="mailto:colin.shaw@silvaco.com">colin.shaw@silvaco.com</a> )
Reliability Model (not yet a standard)	Klaus-Willi Pieper (Infineon) ( <a href="mailto:klaus-willi.pieper@infineon.com">klaus-willi.pieper@infineon.com</a> )
Random Telegraph Noise (not yet a standard)	Colin Shaw (Silvaco) ( <a href="mailto:colin.shaw@silvaco.com">colin.shaw@silvaco.com</a> )

Work Group Name (Operational)	Chair
Model QA and Release	Shahriar Moinian (Broadcom) ( <a href="mailto:shahriar.moinian@broadcom.com">shahriar.moinian@broadcom.com</a> )
Verilog-A Recommended Practices	Geoffrey Coram (Analog Devices) ( <a href="mailto:Geoffrey.coram@analog.com">Geoffrey.coram@analog.com</a> )

# Si2 Staff

Area of Responsibility	Lead
CEO	Robert Aslett ( <a href="mailto:robert.aslett@si2.org">robert.aslett@si2.org</a> )
Transition Management	Leigh Anne Clevenger ( <a href="mailto:leighanne.clevenger@si2.org">leighanne.clevenger@si2.org</a> )
CMC Liaison for all operational matters	Ali Sadigh ( <a href="mailto:ali.sadigh@si2.org">ali.sadigh@si2.org</a> )

