



Welcome to the Resist TWG Meeting



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International EUV Initiative



IEUVI TWGs

Welcome to the TWGs Member Section - This section will be opened to registered attendees only.

IEUVI Chair: [Paolo Gargini](#), Stanford University

- **Resist**

- TWG Chair: [Greg Denbeaux](#), SUNY Poly CNSE

- [2017-9-10 Agenda](#)

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- **Panel Discussion: Will the advent of 3D monolithic integration eliminate the need for higher lithographic resolution?**

- Organized by: [Paolo Gargini](#), Stanford University

- [2017-9-10 Agenda](#)

- [Register click here](#)

- **Pellicle, inspection, and cleaning**

- TWG Chair: [Emily Gallagher](#), imec

- NO pellicle TWG in September 2017

- **Administrator:** [Yu-Jen Fan](#), ASML

- **Archive**

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- [Optics Contamination and Lifetime](#)

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IEUVI

RESIST TWG Meetings

February 26, 2017

- 1 [Resist challenges and potential research areas](#) by Oktay Yildirim, ASML
- 2 [EUV resists: When more may be less](#) by Anna Lio, Intel
- 3 [IBM EUV resist-metal hardmask interactions](#) by Dario Goldfarb, IBM
- 4 [Shot noise, LER and limitations of current EUV photoresists](#) by Anindarupa Chunder, GlobalFoundries
- 5 [Resist exposures with low energy electrons](#) by Ruud Tromp, IBM
- 6 [Electrons and holes in the EUV exposure mechanism](#) by Robert Brainard, SUNY Poly
- 7 [Stochastics across wavelength](#) by Alex Vaglio Pret, KLA-Tencor
- 8 [Relationship between photon shot noise and secondary electron blur in line edge roughness formation](#) by Takahiro Kozawa, Osaka University
- 9 [Nanoparticle EUV photoresist studies](#) by Kazuki Kasahara, JSR/Cornell University
- 10 [Multi trigger resist](#) by Alex Robinson, University of Birmingham
- 11 [Positive and negative tone crosslinked organic molecular resists: An update and outlook](#) by Cliff Henderson, University of South Florida
- 12 [Comparison of EUV and electron reactivity for metal oxalate photoresists](#) by Greg Denbeaux, SUNY Poly

October 23, 2016

- 1 [TWG Agenda](#) by Yu-Jen Fan, Globalfoundries/SUNY
- 2 [EUV Resist Stochastics](#) by Anna Lio, Intel
- 3 [Understanding patterning variability: The Multivariate Poisson Propagation Model](#) by Patrick Naulleau, CXRO LBNL
- 4 [Fundamental aspects of RLS trade-off and photon shot noise of CAR and PSCAR](#) by Seiichi Tagawa, Osaka University
- 5 [Analysis of metal resist used for extreme ultraviolet lithography](#) by Takahiro Kozawa, Osaka University
- 6 [Update of resist outgas testing at EIDEC](#) by Eishi Shiobara, EIDEC
- 7 [Development status of patterning enhancement material for EUV lithography](#) by Kazuma Yamamoto, Merck
- 8 [Gas phase synchrotron experiments probing EUV resist photochemistry](#) by Frank Ogletree, LBNL
- 9 [Photoelectron scattering and uncertainty in acid release in EUV](#) by John Biafore, KLA-Tencor
- 10 [The role of secondary electrons in EUV resist exposure mechanisms](#) by Greg Denbeaux, CNSE SUNY Poly

February 21, 2016

- 1 [TWG Agenda](#) by Yu-Jen Fan, SUNY Poly SEMATECH
- 2 [Recent progress in nanoparticle photoresist development for EUV lithography](#) by Kazuki Kasahara, Cornell University/JSR
- 3 [RECENT DEVELOPMENT STATUS OF EUV RINSE](#) by Tatsuro Nagahara, EMD Performance Materials
- 4 [Accelerating Fab Integration of Metal Containing Resists](#) by Jason Stowers, Inpria
- 5 [ADVANCES IN ALTERNATIVE PHOTO MATERIALS FOR HVM EUV LITHOGRAPHY](#) by DANILLO DE SIMONE, imec
- 6 [Status update on outgassing of alternative resists](#) by Gijsbert Rispens, ASML
- 7 [Update of Resist Outgas Testing at EIDEC](#) by Eishi Shiobara, EIDEC
- 8 [Considerations for resist outgas testing with EUV and hydrogen at NIST](#) by Shannon Hill, NIST
- 9 [IBM Outgas Update](#) by Dario L. Goldfarb, IBM
- 10 [Fundamental aspects of sensitivity enhancement and RLS trade-off of chemically amplified EUV resist](#) by Seiichi Tagawa, Osaka University
- 12 [Molecular resists for EUV lithography](#) by Alex P.G. Robinson, University of Birmingham
- 13 [Is an EUV Film Quantum Yield of 30 Possible?](#) by Greg Denbeaux, SUNY Polytechnic Institute
- 14 [What Don't We Know About EUV Exposure Mechanisms?](#) by Robert L. Brainard, SUNY Polytechnic Institute
- 15 [IEUVI Resist TWG Summary](#) by Yu-Jen Fan, SUNY Poly SEMATECH

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[Update from More Moore](#) By S. Tedesco
[University of Wisconsin EUV Exposure Stations](#) By P. Nealey
[EUV Resist Specification Roadmap](#) By Hah (Samsung)
[EUV Resist Screening Data Table](#) By Leeson (Intel)
[TOK Resist Development Status for EUV Lithography](#) By K. Ohmori
[IEUVI TWG Update-Resist Evaluation](#) By T. Wallow, B. Lafontaine
[Electrodeless Z-Pinch EUV source for Resist Outgassing & Exposure Studies](#) By P. Blackborow
[Tools for "In-House" Resist Characterization under EUV exposure](#) By C. Wies, R. Lebert
[EUV Stimulated Photoresist Outgassing](#) By C. Hughes
[Brief Regional Update: MEDEA Excite project](#) By M. Goethals

November 10, 2005

[Agenda](#)

Presentations

[Welcome & Introductions of Charter, Goals for Resist TWGs](#) By Dean
[Outgassing Round Robin Results](#) By Intel/Yeuh
[Outgassing Round Robin Results](#) By H. Oizumi
[Outgassing Round Robin Results](#) By C. Vannuffel
[Resist Round Robin Outgassing @ ELETTRA](#) By M.Bertolo, P. Lacovig, L. Rumiz, D. Giuressi, R. Sergio, A. Stofa
[Update Japan/ASET](#) By H. Oizumi, ASET
[Update from More Moore](#) By S. Tedesco
[Update from MEADE/EXCITE](#) By M. Goethals
[Update from US/SEMATECH](#) By K. Dean
[New Areas for TWG Cooperation](#) By S. Tedesco
[Feedback on the ITWG Resist consortia cooperation proposal](#) By P. Zanbergen
[EUV Resist Specification Roadmap - Revised](#)
[IEUVI Resist Technical Working Group](#) By A. Keen

March 03, 2005

[Agenda](#)

Presentations

[IEUVI Resist Summary for March 4 IEUVI Meeting](#) By Dean
[Introduction to March 3 IEUVI Resist TWG Meeting](#) By Dean
[Feedback from 1st European on Resist Limitations](#) By Wolf-Dieter Domke, Infineon
[Feedback from SEMATECH LER & Resist Limitation Workshops](#) By Kim Dean
[Brief Description of Outgassing Methods \(5 min each\)](#) By Domke
[Brief Description of Outgassing Methods \(5 min each\)](#) By Keen
[Brief Description of Outgassing Methods \(5 min each\)](#) By Vannuffel
[Brief Description of Outgassing Methods \(5 min each\)](#) By Nishiyama
[Brief Description of Outgassing Methods \(5 min each\)](#) By Dean
[Outgassing Discussion Notes](#) By Dean
[Resist Outgassing: compare methods & explore areas of cooperation](#) By Wolf-Dieter Domke
[Revised Resist Specifications](#) By Dean
[Update Japan/ASET](#) By Iwao Nishiyama, ASET
[Update from More Moore](#) By Serge Tedesco, CEA/LETI
[Update from MEADEA/EXCITE](#) By Wolf-Dieter Domke
[Update from US/SEMATECH](#) By Kim Dean
[Three Topics for TWG Cooperation](#) By Serge Tedesco
[Comparison of Resist Performance at LBNL Microstepper & PSI Interference Setup](#) By Roel Gronheid

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Start: 9AM

Paolo Gargini - Welcome

Yu-Jen Fan (ASML) – meeting agenda and organization

Toru Fujimori (Fujifilm) “Recent progress of CAR materials for EUV lithography”

Anindarupa Chunder (GlobalFoundries) “Challenges in next generation EUV resists and processes”

Alex Robinson (U. Birmingham) “Multi-trigger resist”

Greg Blachut (LAM) “Self-immolating behavior enables a chemically-amplified photoresist without acid catalysis”

Break: 10:30

Eishi Shiobara (EIDEC) “The update of resist outgas testing at EIDEC”

Oleg Kostko (LBNL) “Novel ways to probe EUV radiation chemistry”

Greg Denbeaux (SUNY Polytechnic) “Polymer effects on PAG acid yield in EUV resists”

Sang Jin Cho (FST) “The updated EUV pellicle development status of FST”

Finish: Noon