

CSTIC 2023 Summary

June 26-July 27, 2023

Shanghai, China

www.semiconchina.org/cstic v.semi.org.cn/cstic







SEMICON® CHINA

Plenary Session and Award Winners















Plenary Speakers



2023







Dr. Yalin Xiong

semi



Prof. Albert Fert

Research Director, Unité Mixte de Physique, Nobel Laureate in 2007

Innovations Boost Integrated Circuit

<u>Prof. Ming Liu</u>

Academician of CAS, Fudan University

Advanced Packaging Technology Challenges: an Equipment Supplier's Perspective

Dr. Yang Pan

Corporate Vice President, Lam Research

Endless Technological Innovation in IC Equipment <u>Mr. Jinrong Zhao</u>

Chairman of the Executive Committee, Beijing
NAURA Technology Group

From Legacy to Leading Edge: Broadband Wafer Optical Inspection for Process Control

Dr. Yalin Xiong

Senior Vice President and General Manager, KLA Corporation

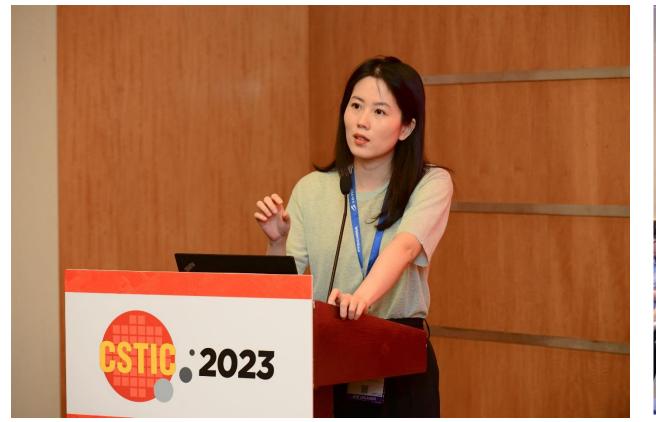




>170 Oral Presentations and >180 Posters





















9 Symposia with 100 Invited Speakers

Symp I: Device Engineering and Memory Technology

Symp. II: Lithography and Patterning

Symp. III: Dry &Wet Etch and Cleaning

Symp. IV: Thin Film, Plating and Process Integration

Symp. V: CMP and Post CMP Cleaning

Symp. VI: Metrology, Reliability and Testing

Symp. VII: Packaging and Assembly

Symp. VIII: MEMS, Sensors and Emerging Semiconductor

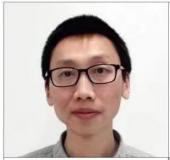
Technologies

Symp. IX: Design and Automation of Circuits and Systems

Virtual Conference: June 29-July 26 v.semi.org.cn/cstic







Zhongrui Wang
University of Hong Kong



Mario Lanza

King Abdullah University
of Science and Technology (KAUST)



Toru Fujimori

FUJIFILM Corporation





ASML Netherlands B.V.



Allen Chang

JSR Corporation



2023 中国半导体技术大会



Yan Sun

Beijing NAURA

Microelectronics

Equipment Co., Ltd



Anji Microelectronics Technology (Shanghai) Co., Ltd



Institute of Computing Technology, Chinese Academy of Sciences



Ala Ba

Alan WangBaylor University



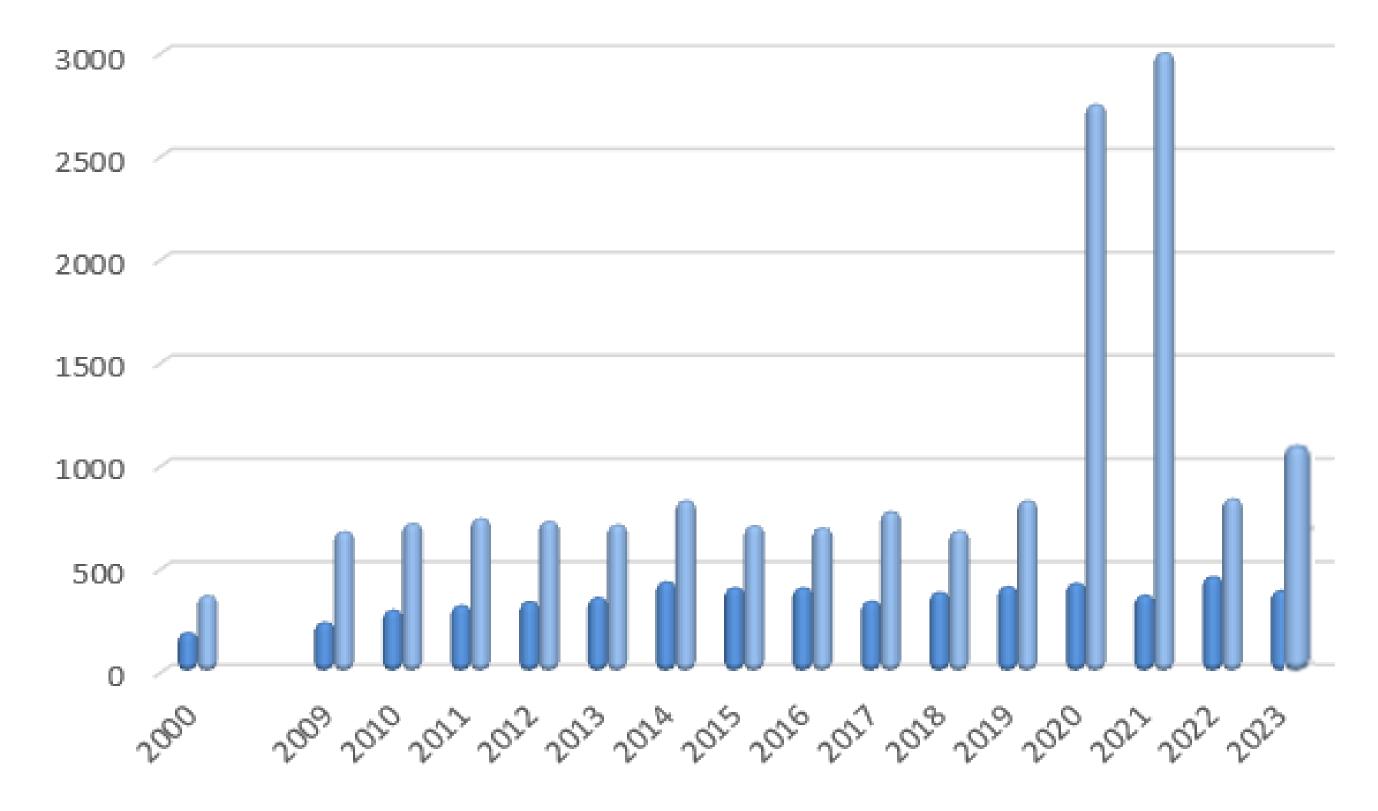
Zhen ZhangUppsala University





CSTIC 2023

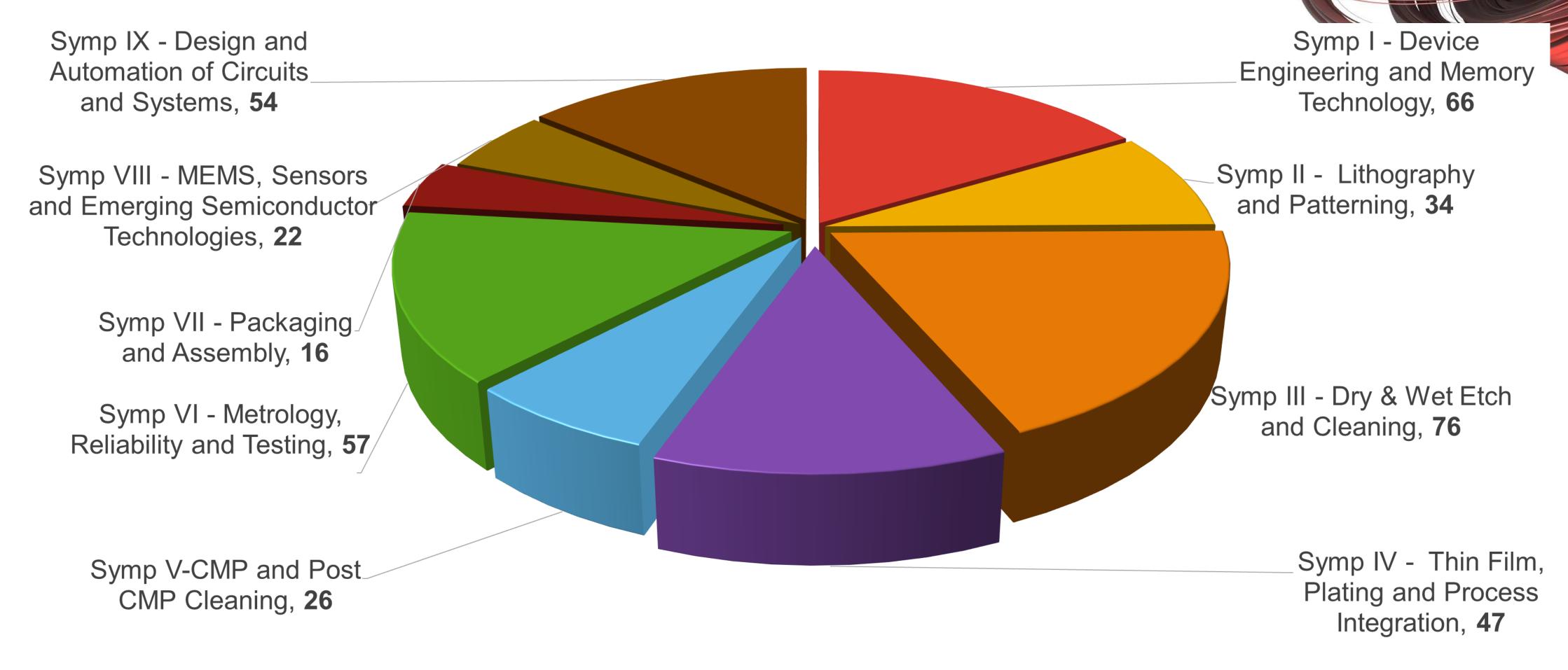
- ·Largest and most comprehensive, influential annual industrial semiconductor technology conference in China and Asia
- •403 abstract submissions have been collected. **724 registered attendees joined the onsite conference**, while **online registration is 1061**, including oversea attendees from US, Israel, Japan, Korea, Germany, Sweden, Switzerland, Singapore, UK, Russia, Canada, France, Saudi Arabia, Taiwan China, HK China and etc.







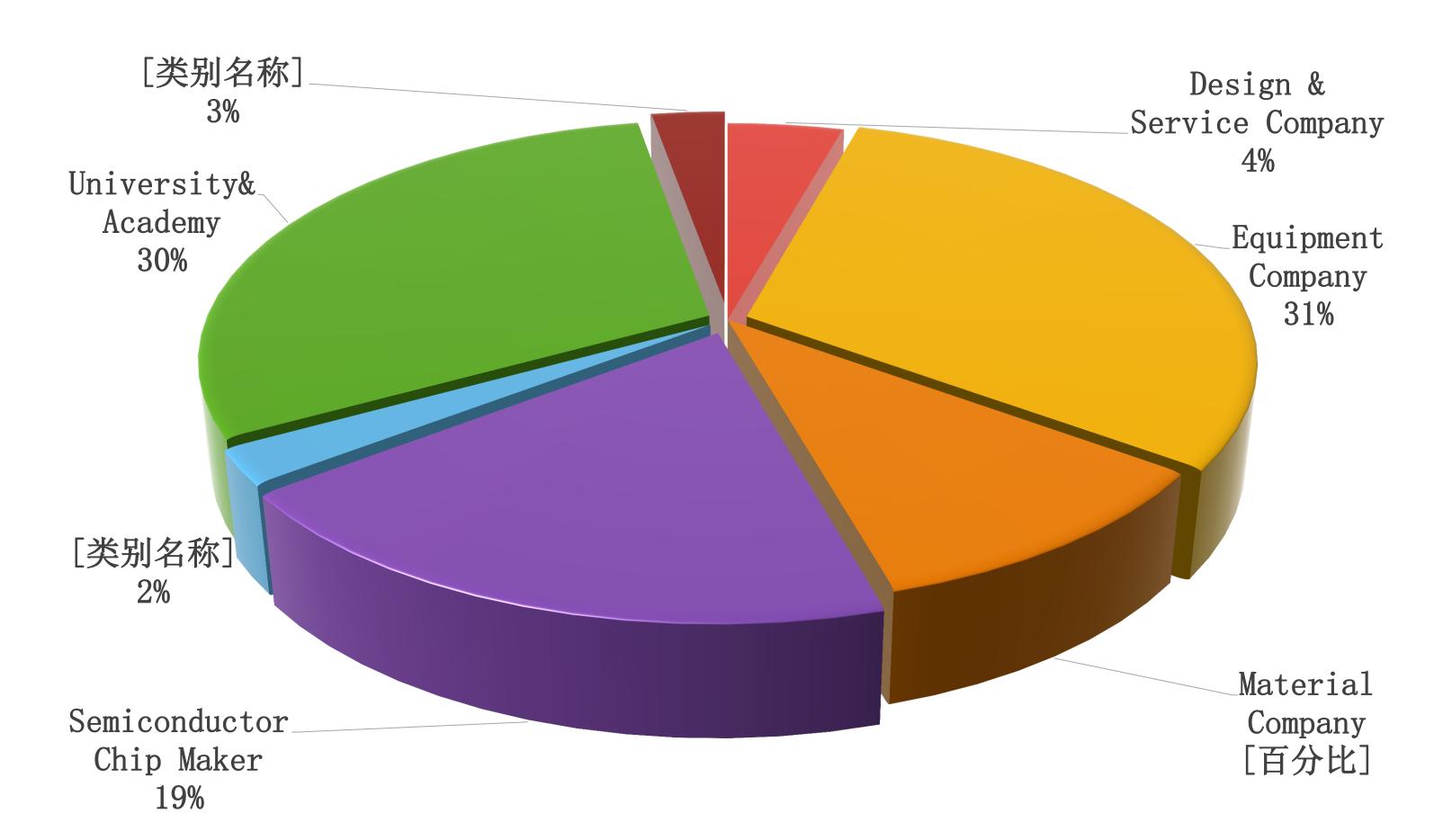
CSTIC Symposium Abstract Submission







Industry and Academy Cooperation 67% Attendees from Industry





- 67% attendees from industry
- 30% attendees from academy
- Attendees were from around 190 different companies or institutes
- Chip companies like SMIC, HLMC, HHGrace, JCET, CXMT, CXMC, NXP, Wuhan Xinxin, Intel, AMD and etc. joined the conference





190 Participating Companies

5N Plus China

AAA

ACM

ADVANTEST

Air Liquide

Air Products

AMD

AMEC

Ancu Technology

Anji

Applied Materials

ASM

ASML Axcelis

Beihang University

Beihang University Hefei Research Institute

Beijing Integrated Circuit Equipment Innovation

Cente

Beijing Jiaotong University

Beijing Naura

Beijing NeuCloud

Beijing Sunrise Technology

Beijing Superstring Memory Research Institute

Beijing University of Chemical Technology

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CanSemi Technology

2025 University of Mining & Technology

China University of Politics and Law

CXMT Cymer

D2S Inc.

DJEL (Beijing)

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Fudan University

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Huahong Semiconductor Huangshan University

Huawei Huazhong University of Science and Technology Hwatsing Technology

TBM

ICT, CAS Ideal Energy Sunflower

IMECAS

Indium corporation Infinitesima Ltd

Intel

Jiangsu Leadmicro Nano Technology

Jinan Shengquan Group Jinhua Integrated Circuit

Kioxia KLA

Lam Research Lanzhou University of Technology

Leuven Instruments

Liverpool John Moores University

Mayair

Mentor Graphics Nanjing Universitiy

Nanjing University of Posts and Telecommunications

National Central University National Institute of Metrology

Ningbo University

Nova Ltd NXP ONTO

Panasonic

PARC S. R. L. LLC





190 Participating Companies

Peking University

Pengxinwei Semiconductor

Piotech

Quanyi Mask Optoelectronics Technology

Radiant Shore

Raintree Scientific Instruments (Shanghai)

Corporation

S. Y. Technology Engineering&Construction

Sanechips Technology

School of Integrated Circuits, Chinese Academy of

Sciences

Shandong Shengquan New Materials

Shanghai Institute of IC Materials

Shanghai Jiao Tong University

Shanghai United Imaging Healthcare

Shanghai University

Shanghaitech University

Shenzhen China Star Optoelectronics Semiconductor

Display Technology

Shenzhen University

Shinko Control Technology

Siemens

Sky Semiconductor

SMIC

SMNC

Southwest Jiaotong University

STIC

SUSTECH

Suzhou Runbang

SuZhou STR Software Technology

2025 Hou TZTEK Technolog ySure

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Tokyo Electron

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Truth Memory Corp. Tsinghua university

UC Berkeley

Uppsala University

US Consulate General in Shanghai

Westen Digital Wintech-nano

Wuhan National Research Center for Optoelectronics

Xiamen Industrial Technology Research Institute

XMC

ZengSemi

Zhejiang Hikstor Technology

Zhejiang University

爱发科(苏州)技术研究开发有限公司

昂图(上海)贸易有限公司

半导体产业纵横 半导体行业观察

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南京高科新浚投资管理有限公司

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深圳鹏芯微集成电路制造有限公司

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紫光国微



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WFD Training Courses

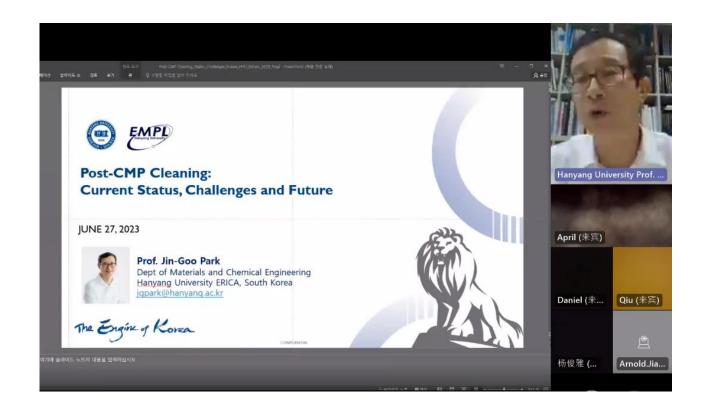
Lithography process and key technical aspects in exposure tools, materials, and the future development roadmap

Dr. Qiang Wu, Professor of the School of Microelectronics of Fudan University



Dr. Jin-Goo Park, Professor of Hanyang University, Korea

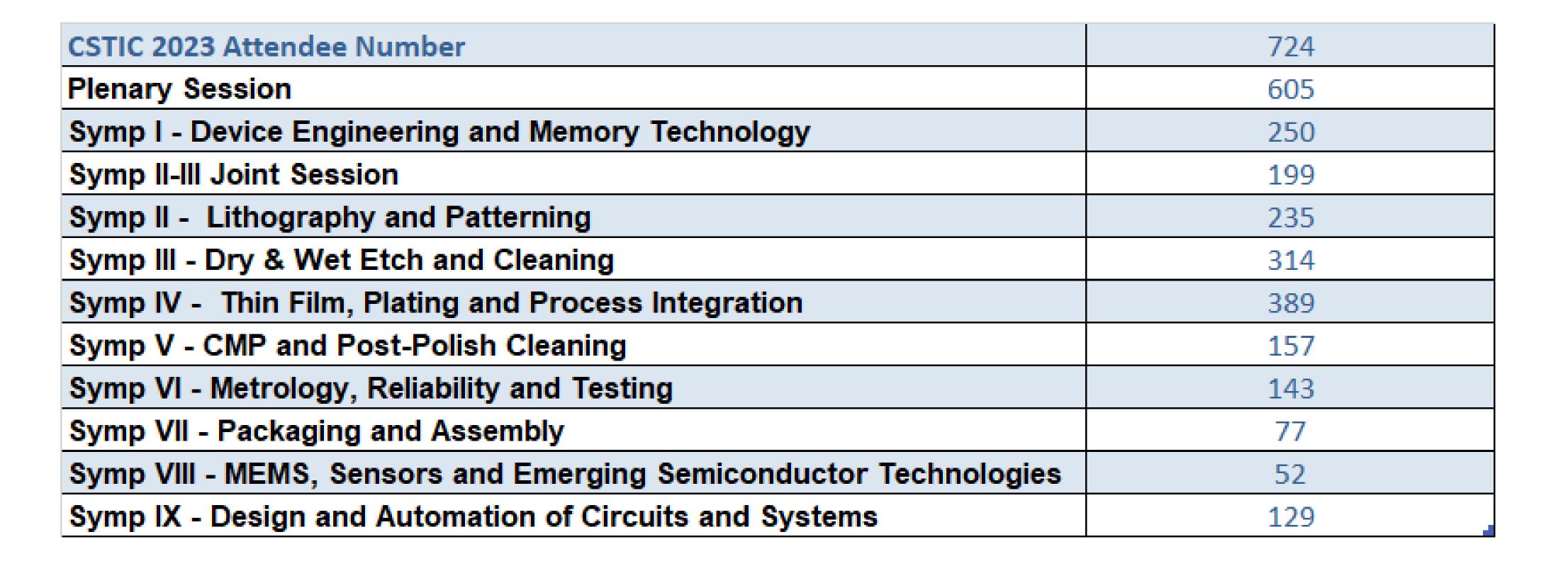








Attendees to Plenary Session and 9 Symposia







Conference Chair and Co-Chairs



Dr. Hanming Wu Conference Chair



Dr. Beichao Zhang
Conference Executive
Co-Chair



Prof. Ru Huang Conference Co-Chair



Prof. Cor Claeys
Conference Co-Chair



Dr. Steve X. Liang
Conference Co-Chair



Dr. Qinghuang Lin Conference Co-Chair





Symposium Chairs



Dr. Ru Huang

Symp-I Chair,
Conference Co-Chair
Professor of Peking
University,
President of Southeast
University,
Academician of Chinese
Academy of Sciences



Dr. Linyong (Leo) Pang Symp-II Chair Vice President, D2S Inc., USA



Dr. Ying Zhang Symp-III Chair Consultant



Dr. Xiaowei Li Symp-VI Chair, Deputy Director, ICT, CAS, China



Dr. Xiaoping Shi
Symp-IV Chair
CTO, Beijing Naura
Microelectronics, China



Dr. Steve X. Liang Symp-VII Chair



Dr. Xinping Qu Symp-V Chair Professor, Fudan University, China



Dr. Qinghuang Lin Symp-VIII Chair Director, Lam Research, USA



Prof. Weikang Qian

Symp-IX Chair
Assistant Professor,
University of Michigan-

University Joint Institute,

Shanghai Jiao Tong

China



Dr. Hsiang-Lan Lung
Poster Chair
Director, MXIC, Taiwan,
China





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Proceedings Publication:









CSTIC 2024

Time: March 17 ~ 18, 2024

CSTIC 2024 call for papers and manuscript deadlines:

Abstract Due: Sep. 30, 2023 Author Notification: Oct. 15, 2023

Manuscript Due: Dec. 26, 2023

Copyright Due: Presentation Due:

Conference Date: Mai

Feb. 20, 2024

Feb. 20, 2024

Mar. 17-18, 2024











