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# ***Advances in Patterning Materials and Processes XXXI***

**Thomas I. Wallow  
Christoph K. Hohle**  
*Editors*

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- 1 Keynote Session  
**Thomas I. Wallow**, ASML US, Inc. (United States)  
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- 2 New EUV Resist Materials: Joint Session with Conferences 9048 and  
9051  
**Robert L. Brainard**, College of Nanoscale Science & Engineering,  
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**James W. Thackeray**, Dow Electronic Materials (United States)
- 3 Stochastics and EUV Process Improvements: Joint Session with  
Conferences 9048 and 9051  
**Roel Gronheid**, IMEC (Belgium)  
**Uzodinma Okoroanyanwu**, GLOBALFOUNDRIES Inc. (Germany)
- 4 SEM Simulation and Emulation I: Joint Session with Conferences 9050  
and 9051  
**Shunsuke Koshihara**, Hitachi High-Technologies Corporation (Japan)  
**Thomas I. Wallow**, ASML US, Inc. (United States)
- 5 SEM Simulation and Emulation II: Joint Session with Conferences 9050  
and 9051  
**Benjamin D. Bunday**, SEMATECH Inc. (United States)  
**Clifford L. Henderson**, Georgia Institute of Technology (United States)
- 6 New Materials and Processes  
**Robert Allen**, IBM Almaden Research Center (United States)  
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- 7 DSA Materials I  
**Ralph R. Dammel**, AZ Electronic Materials USA Corporation  
(United States)  
**Douglas Guerrero**, Brewer Science, Inc. (United States)
- 8 DSA Materials and Processes I: Joint Session with Conferences 9049  
and 9051  
**Benjamin M. Rathsack**, Tokyo Electron America, Inc. (United States)  
**Roel Gronheid**, IMEC (Belgium)
- 9 DSA Materials and Processes II: Joint Session with 9049 and 9051  
**James A. Liddle**, National Institute of Standards and Technology  
(United States)  
**Sean D. Burns**, IBM Corporation (United States)

- 10 Materials and Process Fundamentals  
**Todd R. Younkin**, Intel Corporation (United States)  
**Clifford L. Henderson**, Georgia Institute of Technology (United States)
- 11 Advanced Patterning Processes  
**Plamen Tzviatkov**, FUJIFILM Electronic Materials U.S.A., Inc.  
(United States)  
**Douglas Guerrero**, Brewer Science, Inc. (United States)
- 12 DSA Materials II  
**Mark H. Somervell**, Tokyo Electron America, Inc. (United States)  
**Daniel P. Sanders**, IBM Almaden Research Center (United States)
- 13 Underlayers and Spin-on Materials Processing  
**Robert Allen**, IBM Almaden Research Center (United States)  
**Christoph K. Hohle**, Fraunhofer Institute for Photonic Microsystems  
IPMS (Germany)
- 14 EUV Materials  
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