

NNT 2025 Program Schedule

As 10/08/2025

Sunday, October 12

10:00 - 19:00	Conference Registration
15:00 - 17:20	Exhibit
17:00 - 19:00	Wine and Cheese Welcome Reception

Monday, October 13

07:00 - 09:00	Coffee, Tea, Other Beverages, & Pastries
08:00 - 08:15	Opening Remarks
8:15-10:15	Session 1-A, Plenary-1
08:15-08:50	1A-1. Plenary. Stephen Y. Chou (Princeton University, USA), <i>Birth of Nanoimprint: From Discovery and Invention, Through Rejection, to Transformative Impact and Beyond</i>
08:50-09:15	1A-2. Plenary. R. Fabian Pease (Stanford University, USA), <i>Nanolithography-An Under-Appreciated Technology</i>
09:15-9:45	1A-3. Plenary. Grant Willson (The University of Texas, Austin), <i>Step and Flash Imprint Lithography: In the Beginning ...</i>
09:45-10:15	1A-4. Plenary. Mike Miller (Magic Leap, Inc. USA), <i>From NIL to AR: Magic Leap's Vertically Integrated Path to Scalable Eyepiece Innovation</i>
10:15-10:45	Coffee Break: Exhibit and Poster Inspection
10:45-12:25	Session 1-B
10:45-11:10	1B-1. Invited. Michael Mühlberge (PROFACTOR GmbH, Austria) <i>Nanoimprint in Europe: Status and Outlook</i>
11:10-11:35	1B-2. Invited. Shinji Matsui (University of Hyogo, Japan) and Dr. Suzuki (AIST, Japan), <i>NEDO's nanoimprint lithography Initiative (Canon, TEL, DNP, Koxia, etc.)</i>
11:35-12:00	1B-3 Invited. Gabi Gruetzner and Arne Schleunitz (MicroResist Technology, GmbH, Germany), <i>NIL materials – an evolution from lab to fab and from fab to lab</i>
12:00-12:25	1B-4. Invited. Qiangfei Xia (The University of Massachusetts, USA), <i>Nanoimprint Lithography-Enabled Memristor/CMOS Hybrid Integrated Circuits: Implications for Emerging AI Hardware</i>
12:25 - 13:25	Buffet Lunch at Lawn Provided by Conference

13:25 - 16:00	Session 1-C
13:25-13:50	1C-1. Invited. L. Jay Guo (University of Michigan University, USA) <i>The first transistors fabricated by Nanoimprint and beyond, particular structure colors</i>
13:50-14:15	1C-2. Invited. Matt Colburn (Former Meta Platforms, Inc. USA), <i>Nanoimprint tools, process, and tools for AR, meta-optica, and photonics.</i>
14:15-14:40	1C-3 Invited. Xiao-gang Liang (University of Michigan , USA) <i>The first Electric Nanoimprint and First Study/Theory of Nanofluidic-Driven Air Bubble Disappearance in Nanoimprint,</i>
14:40-15:05	1C-4. Invited. Kehan Tian (Goeroptics & VP of Alpha Labs, Goertek, China), <i>Applications of Nano-imprint Lithography in Micro-Nano-Photonics</i>
15:05-15:30	1C-5. Invited. James J. Watkins (The University of Massachusetts, USA), <i>Additive Full wafer Fabrication of All inorganic Metaoptics and AR Waveguides via Hybrid Processing</i>
15:30-15:55	1C-6. Invited. Mark Thng (MetaOptics Technologies Pte. Ltd. Singapore), <i>Meta-Optics and Its Broad Applications,</i>
15:55-16:20	1C-7. Invited. Junsuk Rho (Pohang University of Science and Technology (POSTECH), Korea), <i>Optical metasurfaces for imaging, sensing, and display</i>
16:20-18:20	Coffee Break: Exhibit and Poster Inspection
16:20-18:20	Session 1-D Posters and Exhibition
18:00	Adjourn for the Day

Tuesday, October 14

07:00 – 09:00	Coffee, Tea, Other Beverages, & Pastries
08:00 – 10:20	Session 2-A, Plenary Session 2
08:00-08:30	2A-1. Plenary. Lars Montelius (Lund University, Sweden), <i>Early Adoption and Development of Nanoimprint Lithography: From R&D and Applications to Commercialization</i>
08:30-09:00	2A-2. Plenary. Thomas Glinsner (EV Group, GmbH, Austria), <i>From Experimental to Essential: NIL's Evolution in Industry</i>
09:00-09:30	2A-3. Plenary. Doug Resnick (Canon, USA and Japan), <i>Drop-on-Demand NIL for Advanced Semiconductor ICs</i>
09:30-09:55	2A-4. Invited. S.V. Sreenivasan (TIE, The University of Taxes at Austin, USA), <i>TIE (Texas Institute of Electronics) Consortium (UT, Intel, Applied, AMD. etc.) on Nanoimprint and 3D heterogeneous integration (3DHI),</i>
09:55-10:20	2A-5. Invited. Dr. Céline Chevalier , (INSA-CNSR, France) and Dr. Cécile Gourgon (CNRS-LTM, France), <i>French Research in Nanoimprint: processes, applications, players</i>
10:20 - 10:40	Coffee Break: Exhibit and Poster Inspection

10:40 - 12:20	Session 2-B,
10:40-11:05	2B-1. Invited. Jun Taniguchi (Tokyo University of Science, Japan), <i>Nanoimprint Industrial Applications in Japan</i>
11:05-11:30	2B-2. Invited. Yifang Chen (Fudan University, China), <i>Nanoimprint in China</i>
11:30-11:55	2B-3. Invited. Theodor Nielsen and Kristian Smistrup (NIL Technology ApS, Denmark) <i>Nanoimprint Technologies and Applications</i>
11:55-12:20	2B-4. Invited. Jin Choi (TIE, The University of Taxes at Austin, USA), <i>High accuracy overlay for NIL: Development timetable and schemes</i>
12:20-12:45	2B-5. Invited. David Crosby , (WaveOptics (Snap Inc.) USA/UK) <i>Spectacles - Nanoimprinted standalone augmented reality glasses and Snap's vision</i>
12:45 - 13:20	Buffet Lunch at Lawn, Provided by Conference
13:20 - 15:10	Session 2-C
13:20-13:45	2C-1. Invited. Peter R. Krauss (Seagate,USA and Hua Tan (Nanonex Corp.), <i>The First Planar and Roller Nanoimprint: Scientific Discovery, Development, and Beyond</i>
13:45-14:10	2C-2. Invited. Grant Willson, S.V. Sreenivasan, Jin Choi (The University of Texas at Austin, USA) and Matt Colburn (Former Meta Inc., USA.) <i>Step-and-Flash, Jet-and-Flash, and Molecular Imprints Inc.: Beginnings and Growth</i>
14:10-14:35	2C-3. Invited. Lundström Patrik (Obducat, Swenden), <i>Past, Present and Future - a 30 Year Perspective on NIL</i>
14:35-15:00	2C-3. Invited. Yong Chen (Ecole Normale Superieure, France), <i>The early days of nanoimprint in France</i>
15:00-15:25	2C-4. Invited. Helmut Schift (Paul Scherrer Institute, Switzerland), <i>The Switz's Early Efforts in Nanoimprint</i>
15:25-15:50	2C-5. Invited. Shinji Matsui (Univ. of Hyogo, Japan), <i>The early days of nanoimprint research in Japan,</i>
15:50 - 16:00	Conference Photo
16:00 - 16:20	Coffee Break: Exhibit and Poster Inspection
16:20- 17:10	30 Years Nanoimprint Awards
17:10- 18:20	Expert Panel Discussions: What's Next
18:30 - 21:30	Banquet at Marriott

Wednesday, October 15

07:00 – 09:00	Coffee, Tea, Other Beverages, & Pastries
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8:00 - 10:00	Session 3-A
08:00-08:25	3A-1. Invited. Yoshihiko Hirai (Osaka Prefecture University, Japan), <i>Mechanism of nanoimprinting; from macro scale to molecular scale</i>
08:25-08:50	3A-2. Invited. Jun Taniguchi and Hiroyuki Sugawara (Tokyo University of Science, Japan), <i>Mass-production of anti-reflection film via RTR UV-NIL and various applications</i>
08:50-09:15	3A-3. Invited. Jim Wang (NanoNuvo Corporation and former NanoOpto Corp, USA), <i>The First Nanoimprint Fabrication and Manufacturing of Subwavelength (Meta) Optics and NanoOpto Corp</i>
09:15-09:40	3A-4. Invited. Prof. Moon Kyu Kwak (Kyungpook National University, Korea), <i>Nanoimprint-Enabled Biomimetic Dry Adhesives</i>
09:40-10:00	3A-5. Helmut Schift and Michael Muehlberger, Sustainability Aspects of Nanoimprinting (Paul Scherrer Institute, Switzerland and PROFACTOR GmbH, Austria)
10:00 - 10:20	Coffee Break
10:20 - 12:10	Session 3-B
10:20-10:45	3B-1. Invited. Stella Pang (City University of Hong Kong, Hong Kong, China), <i>Three-Dimensional Nanoimprint for Meta Devices, Terahertz Devices, and Biosensors</i>
10:45-11:10	3B-2. Invited. Han Cao and Mike Austin (Nuco, USA), and Paru Deshpande (Life Science Technologies, IMEC, EU) (all former BioNano Genomics, Inc USA), <i>From first nanoimprint in nanobio devices to IPO,</i>
11:10-11:35	3B-3. Invited. Keith J. Morton (Life Sciences Division of the National Research Council Canada (NRC), Canada), <i>Nanoimprint: Sculpting Plastic for Manufacturing Microfluidic Biosensing Devices,</i>
11:35-12:00	3B-4. Invited. Doug Resnick and J. Alexander Liddle (Canon, USA and Japan), <i>An Inkjet-enabled Adaptive Planarization Process</i>
12:00-12:20	3B-5. Marc Verschuuren, Ties de Jong, Gert-Jan Hurkens, Brad Williams, Brid Connolly and Erik Peters,(SCIL Nanoimprint, Holland), Direct patterning of inorganic light and temperature stable NIL resist for optical applications
12:20 - 12:30	NNT 2026 Announcement
12:30 - 13:20	Buffet Lunch at Lawn, Provided by Conference
13:20 - 15:30	Session 3-C
13:20-13:45	3C-1. Invited. Julien Wu (EMD Electronics, Merck KGaA), <i>Winning the Race for Reality: Materials Innovation in AR Waveguides,</i>
13:45-14:10	3C-2. Christoph Jurissek, Alexander Plucinski, Mirko Lohse, Martin Messerschmidt, Arne Schleunitz and Gabi Grützner (MicroResist, Germany), <i>Recent Advancements in NIL Material Development for Etch Pattern Transfer</i>
14:10-14:30	3C-3. Junqiao Wu and Jiachen Li (University of California, Berkeley, USA), <i>Nanoimprinted Temperature Adaptive Thermal Radiative Coating</i>

14:30-14:50	3C-4. Zijie Jiang, Zhao Sun, Zhuofei Gan and Wen-Di Li (The University of Hong Kong, China), <i>Twisted Moiré Chiral Emission Source by Nanoimprint-based Fabrication</i>
14:50-15:10	3C-5. Takehiro Mitsuda, Keisuke Nagato and Masayuki Nakao (University of Tokyo), <i>Effect of size of replicated microstructure on glass flow behavior during laser-assisted direct glass imprinting</i>
15:10-15:30	3C-6. Jerome RECHE, Diana Stephany FERNANDEZ-RODAS and Raluca TIRON (CEA-Leti, France), <i>Full chain for high-resolution 3D pattern manufacturing through the combination of g-EBL and soft-UV NIL.</i>
13:20 - 15:30	Session 3-D
13:20-13:45	3D-1. Invited. Craig Bandes (Pixelelligent Technologies, LLC, USA) <i>Novel Imprintable Metal Oxides driving Physical AI + Virtual AI</i>
13:45-14:10	3D-2. Invited. Dr. Bríd Connolly (TEKSCEND PHOTOMASK, GMBH, Germany), <i>Advanced 3D patterning enabling future optical designs,</i>
14:10-14:30	3D-3. Wei Wu (University of Southern California), <i>Plasmonic Structures with Atomic Precision and Applications Fabricated Using Collapsible Nano-Fingers</i>
14:30-14:50	3D-4. Kazumi Yamauchi, Shinji Hino, Ryo Kato and Yuko Kawajiri (NTT Advanced Technology Corporation, Japan), <i>Evaluations of low temperature nanoimprint processes using solvent-containing high refractive index resins</i>
14:50-15:10	3D-5. Keiko Munechika (HighRI Optics, Inc.USA), <i>High Refractive Index Polymers for Advanced Photonics: Opportunities and Challenges</i>
15:10-15:30	3C-6. Hyeonwoo Kim, Wei-Kuan Lin, Xueding Wang, Guan Xu and L. Jay Guo (University of Michigan), <i>Nanoimprinted microring resonator arrays for photoacoustic tomography imaging</i>
15:30 - 16:00	Coffee Break with Ice Cream
16:40 - 18:20	Session 3-E
16:00-16:20	3E-1. Sonja Kopp, Abhijeet Lale, Viktorija Jonaityte, Michael J. Haslinger, Marta Bonora, Mathias Vostatek, Stjepan Perak, Sarah Linnemeier, Markus Lunzer, Marcus Granegger, Francesco Moscato, Martin Schwentenwein and Michael Muehlberger (PROFACTOR GmbH, Austria), <i>Nanoimprinting to Prepare Ceramic Microstructures on 3D Printed Surfaces</i>
16:20-16:40	3E-2. James H. G. Owen, Robin Santini and John Randall (Zyvex Labs, USA), <i>STM-based Lithography for single-nm-linewidth Nanoimprint masks, as an Energy-Efficient Alternative to EUV</i>
16:40-17:00	3E-3. Sonja Kopp, Viktorija Jonaityte, Michael J. Haslinger and Michael Muehlberger (PROFACTOR GmbH, Austria), <i>A combination of step and repeat and roll-to-plate nanoimprinting for the cost-efficient fabrication of nanostructured surfaces</i>
17:00-17:20	3E-4. Masaru Nakagawa (Tohoku University), <i>Fluorescent UV-curable liquids and UV-cured Resists and Their Usefulness for Nanoimprint Lithography</i>

17:20-17:40	3E-5. Michael Johannes Haslinger, Florian Egger, Viktorija Jonaityte, Vaclav Prajzler Prajzler, Antreas Theodosiou and Michael Muehlberger (PROFACTOR GmbH, Austria), <i>Integrated Bragg Grating Polymer Waveguides for Structural Health Monitoring via Nanoimprinting</i>
17:40-18:00	3E-6. Chau Ha and Martin Newcomb , (Addison Clear Wave Coatings Inc. USA), <i>Preventing Sunlight Damage of High Refractive Index Nano-Imprint Lithography (NIL) Resins</i>
18:00-18:20	3E-7. Stjepan Perak, Marta Bohora, Sonja Kopp, Michael Muenlberger, Francesco Moscato and Markus Lunzer (UpNano GmbH, Germany), <i>Shaping The Future Of Pediatric Heart Support: High-Precision Microfluidic Platform Via Two-Photon Polymerization And Nanoimprint Lithography For Hemocompatibility Testing</i>
16:00 - 18:20	Session 3-F
16:00-16:20	3F-1. Bernardo Realista Ferreira, Amanda Sanson Wscieklica, Sean Branagan, Patrick Schuster, Thomas Achleitner, Guido Piaszenski, Takashi Sasaki and Thang Duy Dao (Silicon Austria Labs (SAL), Austria), <i>Process control on full-wafer characterization for step-and-repeat nanoimprint lithography with two-pattern transfers</i>
16:20-16:40	3F-2. Astrit Shoshi, Julian Hartbaum, Stephan Martens, Amadeus Belschner, Julia Tudarinow, Mandy Göring and Andrea Schulze (Institut für Mikroelektronik Stuttgart - IMS CHIPS, Germany), <i>Mastering the Master: Surface relief grating masters for AR/MR applications</i>
16:40-17:00	3F-3. Johanna Rimböck, Lisa Vsetecka and Andrea Kronawitter (EVG Group, Austria), <i>From Coffee Rings to Slopes: Solid Content Effects in Inkjet Coating for NIL</i>
17:00-17:20	3F-4. Sooyeon Park, Fabrizio Riminucci and Dmitriy L. Voronov (Lawrence Berkeley National Laboratory, USA), <i>Blazed x-ray gratings via nanoimprint and nanoinscribing</i>
17:20-17:40	3F-5. Ran Ji and Junjie Sun (German Litho, China), <i>Volume production methodology for NIL manufacturing of surface relief gratings(SRG) on 300mm wafers</i>
17:40-18:00	3F-6. Robin M. McDonald, Nichole Scott, Lauren Micklow, Stephen Furst and Chris Youtsey (Smart Material Solutions, Germany), <i>Nanopatterned cover glass alternatives to enhance high-efficiency solar cells</i>
18:00-18:20	3F-7. Young Kyu Kim and Seok-min Kim (Chung-Ang University, Korea), <i>Design and fabrication of tilted nanograting for augmented reality glasses using nanoimprinting and oblique angle deposition</i>
18:20	Conference Adjourns