39th ASPE Annual Meeting 2024

Houston, Texas, USA
5-8 November 2024

ISBN: 979-8-3313-1440-8

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571

Some format issues inherent in the e-media version may also appear in this print version.

American Society for Precision Engineering (ASPE)
3434 Edwards Mill Road, Suite 112-325
Raleigh, NC
27612

Phone: (984) 268-9756

www.aspe.net

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

Oral Technical Sessions

Technical Session 1 – Precision Design
Session Chairs: Aaron E. Ramirez (MIT Lincoln Laboratory) and Todd Noste (Lawrence Livermore National Laboratory)
Wednesday, November 6, 2024
8:00 AM – 9:45 AM

Technical Session 2 – Controls and Mechatronics 1
Session Chairs: Stephen J. Ludwick (Aerotech, Inc.) and Burak Sencer (Oregon State University)
Wednesday, November 6, 2024
10:15 AM – 12:00 Noon

Technical Session 3 – Metrology Systems & Characterization
Steven R. Gillmer (MIT Lincoln Laboratory) and Felipe Guzman (University of Arizona)
Wednesday, November 6, 2024
1:30 PM – 3:15 PM

Technical Session 4 – Precision Manufacturing
Session Chairs: Ping Guo (Northwestern University) and Christopher J. Morgan (Moore Nanotechnology Systems, LLC)
Thursday, November 7, 2024
8:00 AM – 9:45 AM

Technical Session 5 – Controls and Mechatronics 2
Session Chairs: David L. Trumper (Massachusetts Institute of Technology) and Lei Zhou (University of Wisconsin – Madison)
Thursday, November 7, 2024
10:15 AM – 12:00 Noon

Technical Session 6 – Micro-Nano Technologies
Session Chairs: Michael A. Cullinan (The University of Texas at Austin) and Robert M. Panas (Bright Silicon Technologies)
Thursday, November 7, 2024
1:30 PM – 3:15 PM

Technical Session 7 – Precision Design (Flexure Use and Design)
Session Chairs: Tyler A. Seawright (KLA) and Folkers Rojas (Millie Rojas Engineering Corporation)
Friday, November 8, 2024
8:00 AM – 9:45 AM

Technical Session 8 – Combined Session: Metrology Systems & Characterization and Precision Manufacturing (Process Improvement and Validation)
Session Chairs: Tony L. Schmitz (University of Tennessee, Knoxville) and Axel Grabowski (Physik Instrumente (PI) GmbH & Co. KG)
Friday, November 8, 2024
10:15 AM – 12:00 Noon

Poster Sessions

Wednesday, November 6, 2024
Thursday, November 7, 2024
3:15 PM – 4:45 PM (Both Days)
Controls and Mechatronics

Metrology Systems

Micro-Nano Technologies

Surface Characterization and Applications of Measurement Science