Norman Noble to Present Nitinol Technical Paper at SMST 2026

Finishing study compares traditional and new finishing methods for nitinol

HIGHLAND HEIGHTS, OHIO – April 28, 2026 – Norman Noble, a leader in precision manufacturing and advanced surface finishing for medical devices, announces that Surface Finishing Process Development Center Manager Kayleigh Grueser will present new research at SMST 2026 focused on the corrosion behavior and surface characteristics of nitinol following established finishing processes.

Grueser's presentation, *"Corrosion Resistance and Surface Analysis of Nitinol Finishing Processes,"* will take place on Tuesday, May 5, 2026, at 9:15 AM in Grand Ballroom D/E at the Hilton La Jolla Torrey Pines.

This work provides a comparative evaluation of established and emerging finishing methodologies for nitinol components, with an emphasis on corrosion performance, surface condition, and process-induced variability. Nitinol test coupons were analyzed using cyclic potentiodynamic polarization and nickel ion release testing, alongside surface characterization via profilometry, optical microscopy, and SEM/EDX analysis.

"Understanding how finishing processes influence corrosion behavior and surface integrity is critical when engineering nitinol components for long-term performance," said Grueser. "This work provides a quantitative foundation for selecting and optimizing finishing methods based on application-specific requirements."

Norman Noble's continued participation in SMST as the industry sponsor reflects its role as a trusted nitinol expert and its commitment to advancing data-driven solutions for complex nitinol applications.

About Norman Noble
Established 80 years ago, Norman Noble remains a family-owned and -operated company offering the most advanced processes for ultra-precision micromachining of medical implants. The company is known for its exceptional ability to produce nitinol-based implants and to achieve sub-miniature precision beyond the reach of most manufacturers. Norman Noble is a CDMO for most of the largest OEMs and well-known names in the medical device industry.

Norman Noble manufactures medical devices and implants to customer specifications in compliance with FDA regulations and ISO 13485. State-of-the-art processes include athermal laser machining, laser welding, Swiss turning and milling, conventional and wire EDM, high-speed 7-axis contour milling, electropolishing, nitinol shape setting, and clean room assembly and packaging. Rapid development prototyping services are available in separate and fully dedicated process development centers. FDA Registration #1531050. Virtual tour and more information: www.nnoble.com.

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