SMST2026

Shape Memory and Superelastic Technologies Conference and Exposition

Advances in Superelastic & Shape Memory Materials and Application

FINAL PROGRAM

MAY 4–8, 2026

LA JOLLA, CALIFORNIA

ORGANIZED BY:

SMST Shape Memory & Superelastic Technologies ASM INTERNATIONAL

ASM INTERNATIONAL

OFFICIAL MEDIA SPONSOR:

SMST NEWSWIRE

smstevent.org **#SMST2026**

WELCOME

WELCOME TO SMST 2026

In the SMST event cycle, it is once again time to gather as a global community—this time in the stunning coastal setting of La Jolla Torrey Pines, California. For SMST 2026, we are excited to welcome you to one of Southern California's most picturesque destinations from May 4–8, 2026. With a continued focus on "Advances in Superelastic & Shape Memory Materials and Applications," this conference offers an exceptional opportunity for the community to reconnect, exchange ideas, and collaborate on the latest scientific and technological developments, while also supporting and inspiring the next generation of leaders in the field.

We kick off the conference with the highly anticipated all-day Nitinol education workshop, led by an outstanding group of instructors including Professor Jan Frenzel (Ruhr University Bochum), Dr. Othmane Benafan (NASA Glenn Research Center), Dr. Brian Berg (Boston Scientific), and Professor Jun Cui (Ames Laboratory, Iowa State University). With a curriculum that continues to evolve alongside the industry, this workshop remains a valuable experience for both first-time attendees and seasoned professionals seeking to deepen or refresh their knowledge.

Our plenary sessions, which begin each day of the conference, feature an impressive lineup of thought leaders and innovators, including Othmane Benafan (NASA), Dimitris Lagoudas (Texas A&M), Beverly Tang (Starlight Cardiovascular), and Alan Pelton (G.Rau Inc.). Their insights will help set the tone for a dynamic and forward-looking technical program. The enthusiasm and engagement of the SMST community is reflected in the strong number of abstract submissions this year, and we extend our sincere thanks to all contributors. The dedication of our chairs and organizers ensures a robust and diverse program that highlights cutting-edge research and real-world applications across the field.

In addition to the technical sessions, attendees can look forward to many returning conference favorites, including CASMART—the 7th student design competition, engaging panel discussions on medical and actuator applications, a vibrant vendor showcase, the Best Poster Awards competition, and the announcement of the Founder's Grant awardee. These programs continue to foster collaboration, innovation, and recognition within the SMST community.

Finally, we encourage you to review the full SMST 2026 technical program online and download the conference app prior to arrival to make the most of your experience. Whether you are a long-time attendee or joining us for the first time, we thank you for being part of this incredible community and look forward to welcoming you to La Jolla in May.

Your SMST 2026 Co-Chairs

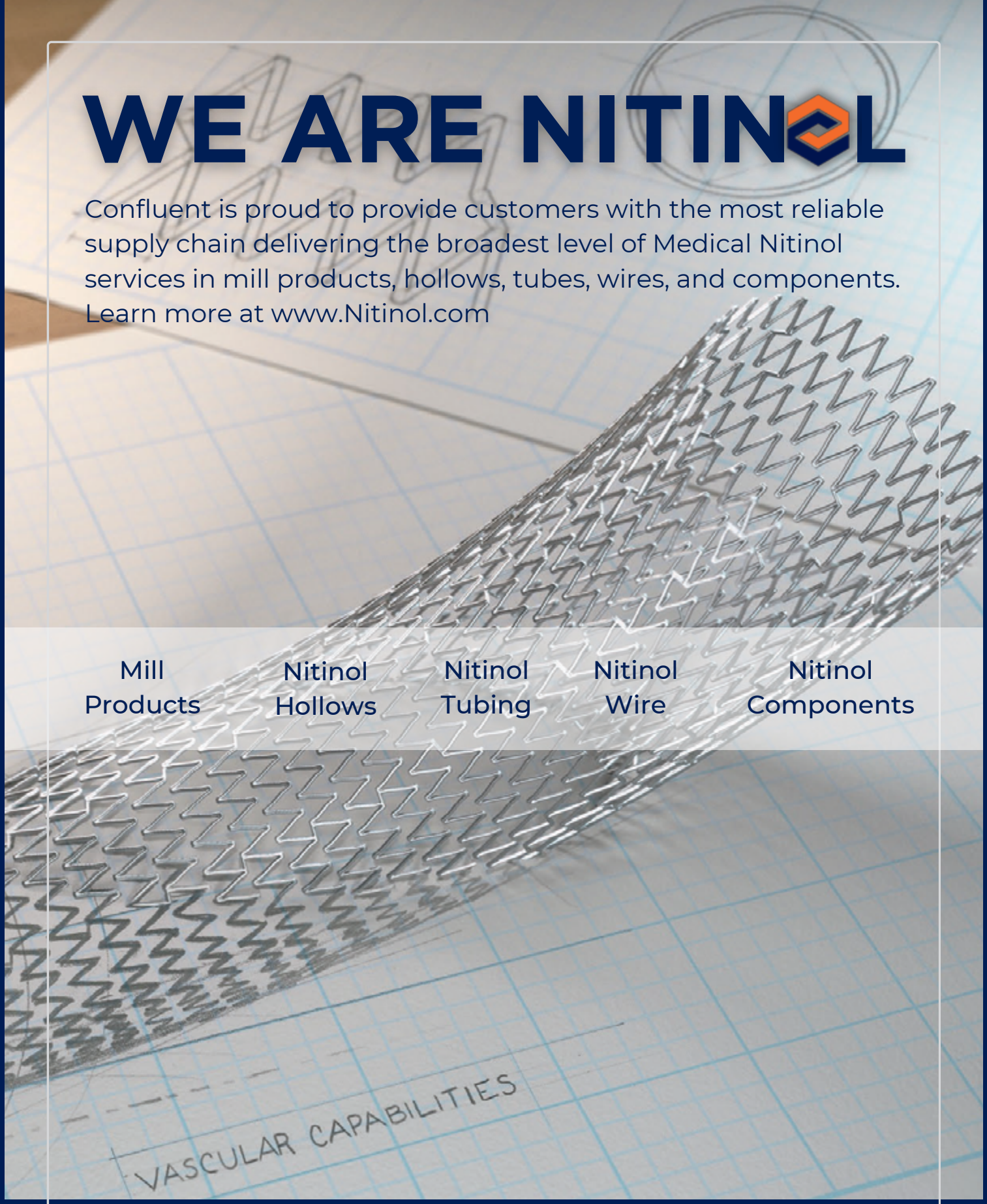
Dr. Harshad Paranjape
Confluent Medical Technologies

Prof. Andreas Undisz
Technische Universität Chemnitz

Dr. Jason David Weaver
FDA

TABLE OF CONTENTS

Welcome Letter ..... Page 1
Organizing Committee ..... Page 3
General Information ..... Page 5
Schedule at a Glance ..... Page 8
Keynote Session ..... Page 10
Special Events ..... Page 10
Education Short Courses ..... Page 11
Founders Grant ..... Page 11
Best Paper Awards ..... Page 14
Show Directory ..... Page 16
Exhibitor List ..... Page 17
Exhibition Floor Plan ..... Page 18
Company Descriptions ..... Page 19



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SMST 2026 ORGANIZING COMMITTEE

SPECIAL THANKS TO THE SMST 2026 TECHNICAL PROGRAM VOLUNTEERS FOR ANOTHER OUTSTANDING CONFERENCE. YOUR HARD WORK AND DEDICATION ARE GREATLY APPRECIATED.

SMST 2026 Conference Co-Chairs

Dr. Harshad Paranjape
Confluent Medical Technologies

Prof. Andreas Undisz
Technische Universität Chemnitz

Dr. Jason David Weaver
FDA

Committee Members

Dr. Othmane Benafan FASM, *NASA Glenn Research Center*

Dr. Tom Duerig FASM, *Engineer/Scientist*

Dr. Alan Pelton FASM, *G.RAU INC*.

Dr. Jeremy Schaffer, *Fort Wayne Metals*

Dr. Aaron Stebner, *Georgia Institute of Technology*

Dr. Jochen Ulmer, *Euroflex Gmbh*

Extended Abstract Reviewer

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Confluent Medical Technologies

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University of Michigan

Jun Cui
Iowa State University

Sabrina Curtis
Khanjur R&D, LLC

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CORTRONIK GmbH (Biotronik Vascular Intervention, now part of Teleflex)

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G.RAU Inc.

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Norman Noble, Inc.

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University of Tulsa

Rodrigo Lima de Miranda
Acquandas GmbH

Burkhard Maass
Ingpuls GmbH

Paul Motzki
ZeMA - Center for Mechatronics and Automation Technology, Smart Material Systems

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G.RAU Inc.

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The Boeing Company

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Georgia Institute of Technology

Stacey Sullivan
Food and Drug Administration

Andreas Undisz
Technische Universität Chemnitz

Jason D. Weaver
U.S. Food and Drug Administration

Andreas Wick
Confluent Medical Technologies

Suto Yuji
The Advanced Institute for Materials Research (AIMR) at Tohoku University

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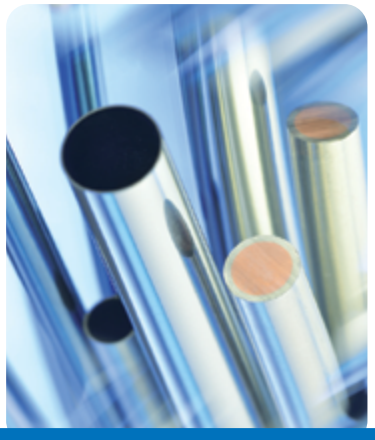

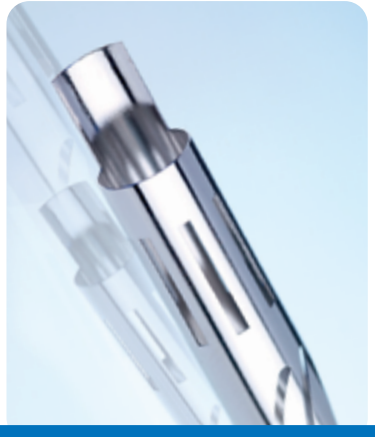

AT-A-GLANCE

SMST 2026 PRESENTATIONS EUROFLEX & G.RAU

- Keynote Nitinol Fatigue
- Influence of Microscopic Surface Features on Localized Corrosion Initiation in Nitinol
- Approaches and challenges in semi-automatic evaluation of NiTi microstructure
- Predicting Localization in Superelastic Nitinol Implants During Monotonic Loading
- Influence of evaluation technique on the fatigue assessment of Nitinol in medical applications
- Practical Uncertainty Quantification for Nitinol Implant Simulations
- Stress and Fracture Mechanics Approach to Fatigue Life Prediction of Nitinol Medical Devices: An Inclusion Analysis
- Impact of secondary heat treatments and mechanical cycling on elastocaloric properties of Nitinol
- Development of NiTi Alloys for Energy-Efficient Elastocaloric Applications Through Nanostructural Analysis
- Refining superelasticity in LPBF-NiTi

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CONFERENCE REGISTRATION HOURS

HILTON LA JOLLA TORREY PINES, Grand Ballroom Foyer

DAY/DATE	HOURS
Monday, May 4	4:00 – 7:00 p.m.
Tuesday, May 5	7:00 a.m. – 5:00 p.m.
Wednesday, May 6	7:30 a.m. – 1:00 p.m.
Thursday, May 7	7:30 a.m. – 5:00 p.m.
Friday, May 8	7:30 a.m. – 12:00 p.m.

EXHIBITION DATES AND TIMES

HILTON LA JOLLA TORREY PINES, Grand Ballroom A-C

TUESDAY, MAY 5
Exhibits Open ..... 9:30 a.m. – 6:30 p.m.

WEDNESDAY, MAY 6
Exhibits Open ..... 9:30 a.m. – 1:00 p.m.

REFRESHMENT BREAKS & LUNCHES

HILTON LA JOLLA TORREY PINES, Ballroom Foyer & Parterre Garden

TUESDAY, MAY 5
Morning Refreshment Break ..... 10:00 – 10:30 a.m.
Lunch ..... 11:30 a.m. – 1:15 p.m.
Afternoon Refreshment Break ..... 3:00 – 3:45 p.m.

WEDNESDAY, MAY 6
Morning Refreshment Break ..... 10:00 – 10:30 a.m.
Lunch ..... 12:00 – 1:15 p.m.

THURSDAY, MAY 7
Morning Refreshment Break ..... 10:00 – 10:30 a.m.
Lunch ..... 12:00 – 1:15 p.m.
Afternoon Refreshment Break ..... 3:00 – 3:45 p.m.

FRIDAY, MAY 8
Morning Refreshment Break ..... 10:00 – 10:30 a.m.

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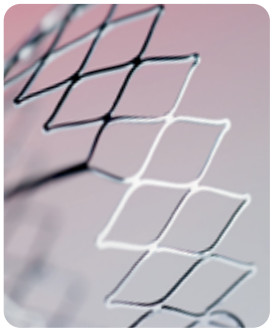


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GENERAL INFORMATION

MOBILE APP

Download the official event app for Apple and Android devices by searching **'SMST2026'**

Special Note:
The only way to view the full technical program is via the mobile app or via the **SMST 2026 website.**

Access all of the following features on your smart phone:

- Search for exhibitors, read their company profiles, and request meetings
- Locate the booths of your favorite exhibitors on the exhibit hall floor plan
- View the technical schedule and search for presentations that interest you
- Create an itinerary and review your saved presentations and exhibitors
- Search for speakers and connect with other attendees at the eve
- Complete the conference survey

STAY CONNECTED AT THE SHOW

Follow show news on Twitter (X), Facebook and LinkedIn. Share your photos and videos by using #SMST2026.

INTERNET ACCESS

Complimentary WiFi access for attendees is available.
Network: Hilton Honors Meeting
Password: SMST26

SESSION CHAIRS

REMINDER: Pick up your session packet **at Registration** the day of your session **at 7:30 a.m.** Within your packet, you will receive instructions and program information relevant to the day for you to pass along to your speakers. Twenty minutes prior to the start of your session, please meet your speakers in the meeting room you are assigned to review necessary conference information and to assist them in uploading their PowerPoint presentations.

SPEAKERS

REMINDER: All speakers must meet in the room of your presentation twenty (20) minutes prior to the start of the session. This will allow all speakers the opportunity to meet their session chair, go over any final conference details and audio-visual concerns and upload your PowerPoint presentation.

CONFERENCE PROCEEDINGS

Conference Proceedings are available to all registered attendees. A **link** to the conference proceedings is included in the **KNOW BEFORE YOU GO** email sent out the week before the event. Please let us know if you did not receive the email and we will resend.

CLICK HERE TO VIEW THE FULL TECHNICAL PROGRAM SCHEDULE ONLINE!

SCHEDULE AT-A-GLANCE

MONDAY, MAY 4	
9:00 a.m. - 5:00 p.m.	Nitinol Education Workshop* (separate registration required) | **Sponsored by:** Norman Noble, Inc.
10:00 a.m. - 5:00 p.m.	Exhibitor Set-up
4:00 - 7:00 p.m.	Registration Opens
5:30 - 7:00 p.m.	Welcome Reception | **Sponsored by:** Vascotube A Carlisle Company
TUESDAY, MAY 5	
7:00 a.m. - 5:00 p.m.	Registration
8:00 - 8:10 a.m.	Opening Remarks
8:10 - 8:50 a.m.	Keynote: Othmane Benafan, NASA | **Sponsored by:** DYNALLOY, Inc. Makers of Dynamic Alloys | FLEXINOL®
9:00 a.m. - 5:00 p.m.	Technical Programming
9:30 a.m. - 6:30 p.m.	Exhibit Hall Open
10:00 - 10:30 a.m.	Morning Refreshment Break
11:30 a.m. - 1:15 p.m.	Lunch
3:00 - 3:45 p.m.	Afternoon Refreshment Break
5:00 - 6:30 p.m.	Exhibitor & Poster Reception | **Sponsored by:** RESONETICS
WEDNESDAY, MAY 6	
7:30 a.m. - 1:00 p.m.	Registration
7:45 - 8:10 a.m	Founder's Grant
8:10 - 8:50 a.m.	Keynote: Dimitris Lagoudas, Texas A&M
9:00 a.m. - 12:00 p.m.	Technical Programming
9:30 a.m. - 1:00 p.m.	Exhibit Hall Open
10:00 - 10:30 a.m.	Morning Refreshment Break
12:00 - 1:15 p.m.	Lunch
1:15 - 2:15 p.m.	Poster session & Lightning talks
1:15 - 5:00 p.m.	Exhibitor Tear-down
2:15 - 5:30 p.m.	Afternoon Free Time
6:00 - 9:00 p.m.	Social Event at Birch Aquarium | **Sponsored by:** PRIME ADMEDES EUROFLEX
THURSDAY, MAY 7	
7:30 a.m. - 5:00 p.m.	Registration
7:50 - 8:00 a.m.	SMST William J. Buehler Award
8:00 - 8:10 a.m.	Journal Awards
8:10 - 8:50 a.m.	Keynote: Beverly Tang, Starlight Cardiovascular
9:00 a.m. - 5:15 p.m.	Technical Programming
10:00 - 10:30 a.m.	Morning Refreshment Break
12:00 - 1:15 p.m.	Lunch
3:00 - 3:45 p.m.	Afternoon Refreshment Break
5:15 - 7:00 p.m.	CASMART 7th Student Design Competition

SCHEDULE AT-A-GLANCE

FRIDAY, MAY 8	
7:30 a.m. - 12:00 p.m.	Registration
7:50 - 8:10 a.m.	CASMART Awards
8:10 - 8:50 a.m.	Keynote: Alan Pelton, G.Rau Inc.
9:00 - 11:45 a.m.	Technical Programming
10:00 - 10:30 a.m.	Morning Refreshment Break
11:45 a.m.	Conference Concludes

**Programs are tentative: papers, authors and order of presentations are subject to change.*

KEYNOTE PRESENTATIONS

Tuesday, May 5 | 8:10 – 8:50 a.m.

Othmane Benafan
NASA
From Transformation Pathways to Performance: Designing Targeted Shape Memory Alloys
Sponsored by: DYNALLOY, Inc. Makers of Dynamic Alloys

Wednesday, May 6 | 8:10 – 8:50 a.m.

Dimitris Lagoudas
Texas A&M
Recent Advances in the Modeling of Shape Memory Alloys

Thursday, May 7 | 8:10 – 8:50 a.m.

Beverly Tang
Starlight Cardiovascular
A Co-evolution of Nitinol and Cardiovascular Device Development

Friday, May 8 | 8:10 – 8:50 a.m.

Alan Pelton
G.Rau Inc.
Nitinol Fatigue: A Review of Microstructures and Mechanisms

SPECIAL EVENTS

WELCOME RECEPTION

Monday, May 4 | 5:30 – 7:00 p.m. | Hilton Torrey Pines - Parterre Garden | Sponsored by: Vascotube

Join us at your leisure for a chance to network and meet with your colleagues and the SMST exhibitors as people arrive and get settled at the Torrey Pines, California. Casual attire please.

EXHIBITOR & POSTER RECEPTION

Tuesday, May 5 | 5:00 – 6:30 p.m. | Grand Ballroom A-C | Sponsored by: RESONETICS

Join us at the expo and poster reception, where attendees explore innovative exhibits, engage with experts, and scholars present their research findings, sparking insightful discussions among peers and mentors.

AFTERNOON FREE TIME

Wednesday, May 6 | 2:15 – 5:30 p.m.

The afternoon has been left open for you to explore Torrey Pines and surrounding areas to see a variety of local attractions.

EVENING SOCIAL EVENT

Wednesday, May 6 | 6:00 – 9:00 p.m. | Birch Aquarium | Sponsored by: PRIME ADMEDES EUROFLEX

Enjoy an unforgettable conference social event at Birch Aquarium at Scripps. Perched atop a bluff in La Jolla with sweeping ocean views, this iconic venue—home to more than 60 marine habitats and the breathtaking two-story Giant Kelp Tank—offers a truly immersive coastal experience. Birch Aquarium provides a one-of-a-kind backdrop for an evening designed to complement the technical program, where attendees can enjoy dinner, drinks, and desserts while continuing conversations, exchanging ideas, and building meaningful connections with colleagues in a relaxed, inspiring setting.

**Pre-purchased Tickets Required*

7TH CASMART STUDENT DESIGN COMPETITION

Thursday, May 7 | 5:15 – 7:00 p.m. | Grand Ballroom A-C

The 7th CASMART Student Design Challenge offers undergraduate and graduate students a platform to explore inventive methods for crafting materials and hardware with shape memory alloy (SMA) technology. Participants will demonstrate their ingenuity by employing engineering theories, design principles, and tapping into the expertise of CASMART members to tackle SMA design obstacles in aeronautics, astronautics, and the medical field. This challenge encourages students to push the boundaries of innovation in SMA applications across various industries.

Winners announced Friday, May 8, 2026 from 7:50 a.m. – 8:10 a.m. in Grand Ballroom D/E.

EDUCATION SHORT COURSES

NITINOL TECHNOLOGY

*Separate registration required

Monday, May 4 | 9:00 a.m. – 5:00 p.m. | Sponsored by: Norman Noble, Inc.

An optional all-day education course on Nitinol Technology will be held on Monday, May 4, 2026, for those who wish to gain a more fundamental understanding of shape memory and superelasticity.

9:00 a.m. | Introduction to Shape Memory and Superelasticity
Professor Jan Frenzel, Ruhr University Bochum

10:45 a.m. | Introduction to Shape Memory Actuators
Dr. Othmane Benafan, NASA Glenn Research Center

1:15 p.m. | Introduction to Nitinol Medical Devices
Dr. Brian Berg, Boston Scientific

3:00 p.m. | Introduction to Elastocaloric Fundamentals and Applications
Professor Jun Cui Ames Laboratory, Iowa State University

4:30 p.m. | Adjorn

WORKSHOP ORGANIZER

Dr. Alan R. Pelton
Chief Technical Officer
G. RAU, Inc.

SMST FOUNDERS' GRANT

Wednesday, May 6 | 7:45 a.m.
The intent of the SMST Founders' Grant is to provide funding for early, exploratory research related to shape memory and superelasticity. It is expected that the funds will be used as a "seed grant," used to test a concept and lay a foundation for obtaining further funding from industry or government agencies.

R. Arockia Kumar
Assistant Professor at National Institute of Technology, Warangal, of India

Development of Lightweight Polycrystalline Ti–Al–Cr Shape Memory Alloys: Effects of Alloying and Grain Size

Lightweight shape memory alloys (SMAs) are attracting increasing interest for advanced functional applications where weight reduction and energy efficiency are critical. The proposed research aims to develop cost-effective, Ti-based lightweight SMAs by systematically investigating grain size effects and ternary alloying in polycrystalline Ti–Al–Cr and Ti–Al–X (X=Fe/Cu/Mn/Ni) systems. The alloys will be synthesized using vacuum arc remelting, followed by hot rolling and vacuum annealing to tailor grain size. The influence of microstructural refinement on superelastic behavior will be evaluated through tensile and compressive loading–unloading tests over a wide temperature range of −75 to 250 °C. Microstructural evolution at various processing stages will be characterized using X-ray diffraction and electron microscopy. The study is expected to establish clear processing–microstructure–property relationships in polycrystalline Ti-based SMAs, thereby advancing lightweight SMAs for actuator applications.

CO-AUTHORS

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Associate Professor

S. Vignesh
Research Scholar

Department of Metallurgical and Materials Engineering
National Institute of Technology (NIT), Warangal
Hanamakonda-506 004, Telangana, Republic of India

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SHAPE MEMORY AND SUPERELASTICITY JOURNAL BEST PAPER AWARDS

***Shape Memory and Superelasticity* is pleased to announce the winners of the 2024 and 2025 Best Paper Awards, as well as the 2024 and 2025 Best Paper Honorable Mentions. The Best Paper Award, in addition to the recognition, includes a plaque and $1000 worth of ASM International products.**

SMST 2024 Award Year | Best Paper

BEST PAPER:
Towards a Fracture Mechanics-Based Assessment for Fatigue Life Prediction of Ni–Ti Stents
Volume 10, Issue 3 (September). Published 9/3/2024.

Alma Brambilla
Department of Civil and Environmental Engineering, Politecnico di Milano

Francesca Berti
LaBS—Department of Chemistry, Materials, and Chemical Engineering "Giulio Natta", Politecnico di Milano

Luca Patriarca
Department of Mechanical Engineering, Politecnico di Milano

Lorenza Petrini
Department of Civil and Environmental Engineering, Politecnico di Milano

SMST 2024 Award Year | Honorable Mention

HONORABLE MENTION:
Shear Deformation of Non-modulated Ni2MnGa Martensite: An Ab Initio Study
Volume 10, Issue 4 (December). Published 11/7/2024.

Martin Heczko
Institute of Materials Science and Engineering, Faculty of Mechanical Engineering, Brno University of Technology

Petr Šesták
Institute of Physical Engineering, Faculty of Mechanical Engineering, Brno University of Technology

Hanuš Seiner
Institute of Thermomechanics, Czech Academy of Sciences

Martin Zelený
Institute of Materials Science and Engineering, Faculty of Mechanical Engineering, Brno University of Technology

SMST 2025 Award Year | Best Paper

BEST PAPER:
Toward Advancing Elastocaloric Performance in Shape Memory Alloys Through Additive Manufacturing: Novel Conceptual Designs and Preliminary Insights
Volume 11, Issue 2 (June). Published 6/9/2025.

Saeedeh Vanaei
Department of Mechanical, Industrial and Manufacturing Engineering, University of Toledo

Shiva Mohajerani
Department of Mechanical, Industrial and Manufacturing Engineering, University of Toledo

Pete Rocco
Department of Mechanical, Industrial and Manufacturing Engineering, University of Toledo

Mahyar Sojoodi
Department of Mechanical, Industrial and Manufacturing Engineering, University of Toledo

Mohammad Pourshams
Department of Mechanical, Industrial and Manufacturing Engineering, University of Toledo

Mohammad Elahinia
Department of Mechanical, Industrial and Manufacturing Engineering, University of Toledo

SMST 2025 Award Year | Honorable Mention

HONORABLE MENTION:
Generation of Plastic Strains by the Martensitic Transformations under Stress via Dislocation Slip in Martensite as the Origin of Functional Fatigue. Volume 11, Issue 4 (December). Published 7/23/2025.

Petr Šittner
Institute of Physics of the CAS

Ludek Heller
Institute of Physics of the CAS

Elizaveta Iaparova
Institute of Physics of the CAS

Lukáš Kadeřávek
Institute of Physics of the CAS

Orsolya Molnárová
Institute of Physics of the CAS

Ondrej Tyc
Institute of Physics of the CAS

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SHOW DIRECTORY

EXHIBITION DATES AND TIMES

TUESDAY, MAY 5

Exhibits Open ..... 9:30 a.m. – 6:30 p.m.
Morning Refreshment Break ..... 10:00 – 10:30 a.m.
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Exhibits Open ..... 9:00 a.m. – 1:00 p.m.
Morning Refreshment Break ..... 10:00 – 10:30 a.m.

THANK YOU TO OUR ORGANIZERS, SPONSORS AND SUPPORTERS!

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DYNALLOY, Inc. Makers of Dynamic Alloys

SUPPORTERS:

FORT WAYNE METALS Turning knowledge into solutions

Heraeus

medevio

MeKo MEDTECH

Metalwerks

quartus ENGINEERING

smarteralloys

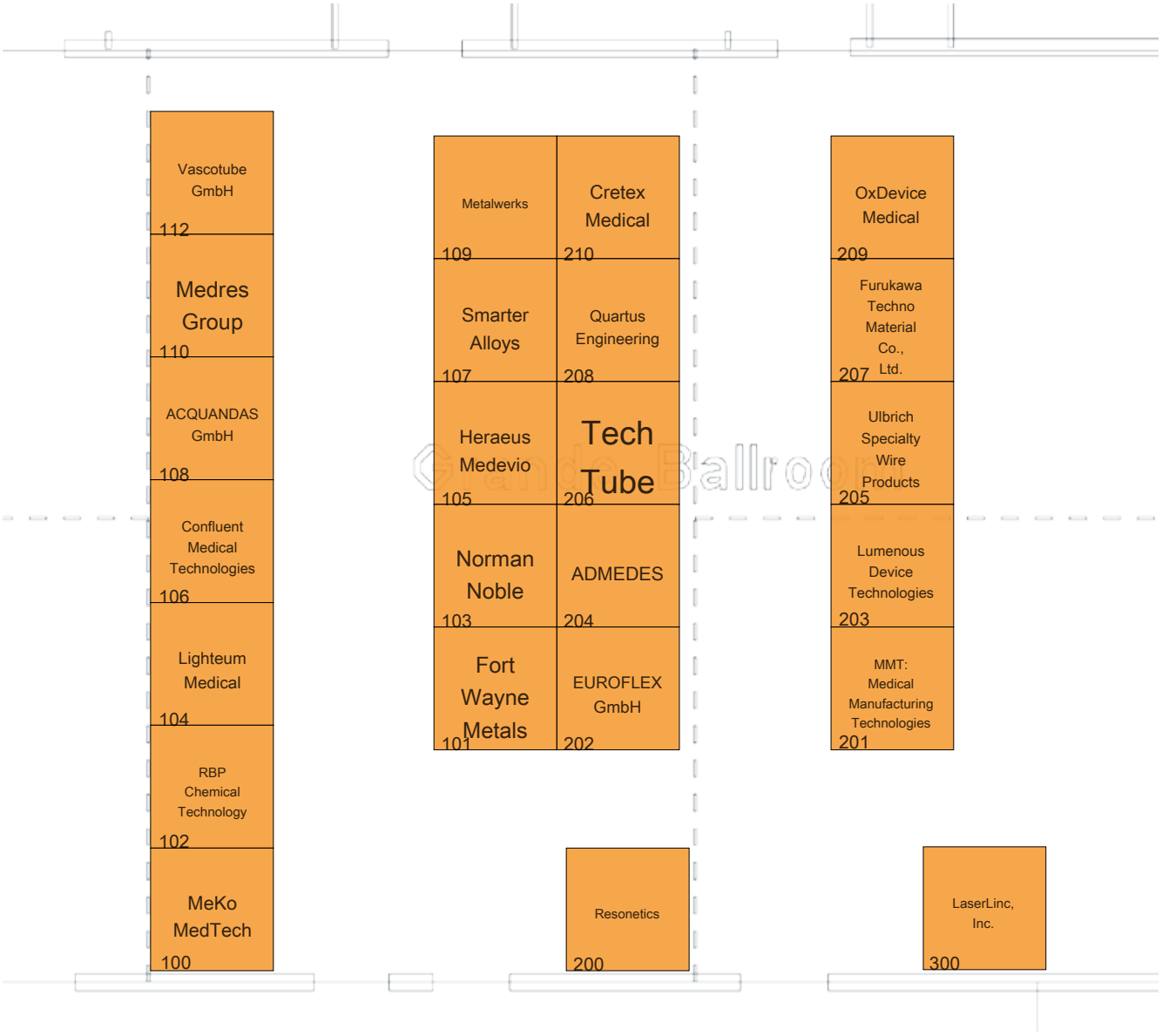
Tech Tube

EXHIBITOR LIST

2026 COMPANIES	TABLETOP NUMBER
ADMEDES GmbH	204
ACQUANDAS GmbH	108
Confluent Medical Technologies	106
Cretex Medical	210
EUROFLEX GmbH	202
Fort Wayne Metals	101
Furukawa Techno Materials, Co., LTD	207
Heraeus Medevio	105
Laserlinc Inc.	300
Lumenous Device Technologies	203
Lighteum Medical	104
Medres Group	110
MeKo MedTech	100
Metalwerks	109
MMT: Medical Manufacturing Technologies	201
Norman Noble	103
OxDevice Medical (a Kaleidex company)	209
Quartus Engineering	208
RBP Chemical Technology	102
Resonetics	200
Smarter Alloys	107
Tech Tube	206
Ulbrich Specialty Wire Products	205
Vascotube GmbH	112

**Exhibitor list as of 4/22/26*

EXHIBITION FLOOR PLAN



COMPANY DESCRIPTIONS

ACQUANDAS GmbH

108

ACQUANDAS is a Germany-based technology partner enabling the realization of next-generation medical devices that go beyond the limits of conventional manufacturing.

Using advanced thin-film deposition and microfabrication technologies, ACQUANDAS makes it possible to produce highly miniaturized, complex components with functionalities and geometries not achievable with standard methods. This enables customers to turn visionary concepts into viable, scalable products.

From early feasibility through prototyping to series production, ACQUANDAS works closely with its partners to accelerate development, ensure manufacturability, and deliver reliable, high-performance solutions—particularly for demanding applications such as medical devices and bioelectronics.

www.acquandas.com

ADMEDES

204

ADMEDES GmbH is a leading global provider of finished Nitinol self-expandable components to the medical device industry. The company collaborates with clients on their designs to develop, commercialize, and produce Nitinol and other metal medical implants and device components that meet stringent ISO and FDA standards.

www.admedes.com/en

Confluent Medical Technologies

106

Delivering world-class medical devices through innovative materials science, engineering, and manufacturing. Confluent Medical Technologies is the market-leading contract manufacturer of specialized medical devices. Its portfolio of services includes Nitinol products & frames with SES delivery systems, precision tubing, advanced catheter systems, biomedicaltextiles, high-pressure balloon catheters, access kits, and guidewires.

www.confluentmedical.com

Cretex Medical

210

Cretex Medical provides medical device manufacturing and engineering services. Our family of companies specialize in a broad range of services, including machining, additive manufacturing, custom instrument manufacturing, design and fabrication of cases& trays, injection molding, precision metal stamping, laser processing, finished device assembly, sterile packaging, and sterilization management.

www.cretexmedical.com

EUROFLEX GmbH

202

EUROFLEX is a globally leading supplier of high-grade semi-finished products and components from a variety of materials. Fast sample production, customer support from the sample to serial production as well as extensive analysis and investigation methods are part of the services of the company.

www.euroflex.de

Fort Wayne Metals

101

At Fort Wayne Metals, we manufacture precision Nitinol materials to support and advance our customers' applications. We offer a variety of customized Nitinol product forms, including round and flat wire, strip, actuator wire, shape-set parts, and more. And our fully integrated Nitinol melting production offers consistent chemistry, microstructure, and a secure supply chain, all to support our customer's existing devices and emerging innovations.

www.fwmetals.com

Furukawa Techno Material Co., Ltd.

207

Furukawa Techno Material Co. offers a full range of Nitinol (Ni-Ti) tubes and wires made from its in-house melting furnace and integrated production line in Japan. Homogeneous alloy and traceability are guaranteed. The company's unique techniques and rich experience deliver tubes and wires with superior performance and durability.

www.furukawa-ftm.com/english/

Heraeus Medevio

105

www.heraeus-medevio.com

PRIME

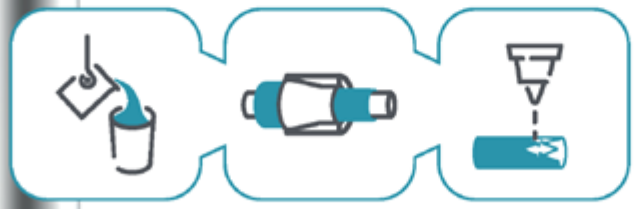
Next-generation Nitinol

Developed by Leaders. Proven in Practice. Ready for Innovation.

PRIME is a strategic initiative driven by five trusted experts across the Nitinol supply chain. From melting over tube drawing to device manufacturing, the open project ensures consistent quality, availability, and performance.

Together, we address the industry's need for a future-proof material source – ready for today's challenges and tomorrow's innovations.

From Ingot to Implant
A fully integrated process chain – rigorously tested at every step.



FORT WAYNE METALS

EUROFLEX®
WE CREATE SOLUTIONS

Vascotube
A Cirtec Company

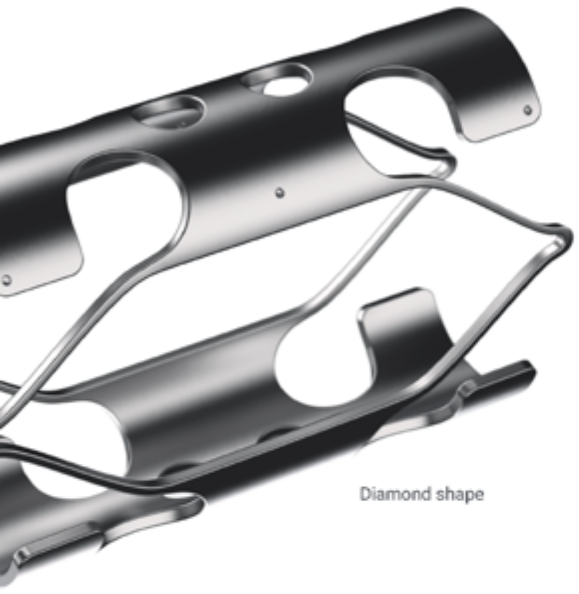
ADMEDES
IDEAS. EXPERTISE. PASSION.

MeKo
MEDTECH

www.prime-ingot.com

www.prime-ingot.com

PRIME



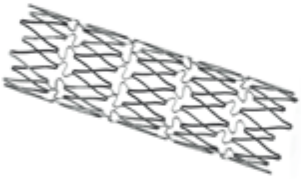
Diamond shape

Rethink Nitinol

With verified quality, robust supply chains, and proven process reliability, **PRIME** (**PR**oficient **I**ngot **M**aterial **E**valuation) is your strategic edge in a demanding market. From melting by **Fort Wayne Metals,** tube drawing by **Vascotube** and **EUROFLEX,** to medical device manufacturing by **ADMEDES** and **MeKo® MedTech** – each partner contributes specialized expertise across the entire value chain.

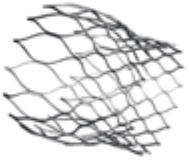
Let's build your next-generation solution – together.

Our Three Quality Grades – The Right Material for Every Application



GEN I
39 µm
max. inclusion size

GEN II - Altus™ Nitinol
20 µm
max. inclusion size



GEN III-HCF
10 µm
max. inclusion size

GEN I is ideal for standard stents, GEN II - Altus™ Nitinol additionally supports the demands of neurovascular stents, and GEN III-HCF — featuring the smallest inclusion sizes — is perfectly suited for applications requiring exceptional fatigue life, such as heart valve frames and diamond-shaped components.

We're happy to help you choose the best material for your specific needs.

FORT WAYNE METALS
fwmetals.com/prime

EUROFLEX®
WE CREATE SOLUTIONS
euroflex.de/prime

Vascotube
A Cirtec Company
vascotube.com/prime

ADMEDES
IDEAS. EXPERTISE. PASSION.
admedes.com/prime

MeKo
MEDTECH
meko.de/prime

COMPANY DESCRIPTIONS

LaserLinc, Inc.

300

LaserLinc offers precision, noncontact equipment for measuring diameter, ovality/eccentricity, wall thickness, concentricity, and inside diameter. Applications include catheters, guidewires, tubing (any material), monofilament (e.g., sutures), optical fiber, and more; in-process or benchtop. Either can be automated. All products are manufactured in the United States by American workers. LaserLinc is a privately held, 100% U.S. owned corporation.

www.laserlinc.com

Lighteum Medical

104

Lighteum Medical is a global leader in precision-engineered nitinol components and platinum group metal (PGM) technologies for the medical industry. Formerly Johnson Matthey medical, we specialize in transforming nitinol tubing and sheet produced in our Mexicali manufacturing opertions into high-performance solutions—including custom cages and baskets, laser-machined hypotubes, and complex micromachined structures—while delivering platinum-iridium ring and tip electrodes, radiopaque marker bands, and fully integrated PGM-nitinol assemblies that combine exceptional shape memory, superelasticity, and fatigue resistance with ultra-low impedance electrical performance. We feature state-of-the-art femtosecond laser micromachining, precision shape-setting, heat treatment, electropolishing, and Swiss and EDM micro-machining of both nitinol and PGM materials.

www.medicaldevicecomponents.com

Lumenous Device Technologies

203

Innovation every day. Reliability every second.

- Still pioneering, Lumenous' uniquely broad process array achieves robustness - and wow - in design, laser-cutting & welding, shapesetting, electropolishing, surface engineering, Nitinol wire & tubing materials, and assembly.
- Relentless advances deliver unheard-of optimization for fist-pump days in R&D and zero-defect serial production.
- The key - collaborating to transform outsize expertise into insider collaboration.

Get your Brilliant.

www.lumenous.com/

Medres Group

110

www.medres-group.com

MeKo MedTech

100

MeKo® MedTech is a trusted contract manufacturer of high-precision components for medical devices. ISO 13485 certified and FDA-registered, MeKo® combines in-depth material expertise with advanced laser-based manufacturing to deliver precision, speed, and reliability - supporting MedTech innovators from early stage prototypes to full-scale production and launching breakthrough technologies to improve lives.

www.meko.de/medtech

Metalwerks

109

Metalwerks is a U.S. based specialty metals mill focused on low volume, high complexity melting and processing. From our melt shop in Aliquippa, Pennsylvania, we have been melting NiTi and derivative alloys for more than two decades using VIM, ISM, and VAR routes.We produce NiTi bar, plate, sheet, and rod coil with an emphasis on low inclusion and high homogeneity melts for fatigue sensitive components. Our team of metallurgists supports customers from early R&D heats and button trials up through production ingots, enabling rapid iteration on chemistry, transformation temperatures, and processing windows. At SMST 2026, we are highlighting our ability to supply 2 part NiTinol to ASTM F2063, high temperature NiTi alloys tuned to customer specifications, and flexible R&D melting capabilities that connect lab concepts to industrial scale manufacturing.

www.metalwerks.com

MMT: Medical Manufacturing Technologies

201

MMT provides advanced manufacturing solutions for medical devices, including guidewires, catheters, and automated systems, backed by industry leading service. In finishing shape memory and superelastic materials like nitinol, our solutions including theComco AccuFlo Microblaster and Advanced Lathe Automated MicroBlasting System provide precise edge rounding and surface preparation, improving the quality and durability of implants.

www.mmt-inc.com

Norman Noble

103

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 supplier to 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.

www.nnoble.com

OxDevice Medical

209

OxDevice Medical is a precision engineering and manufacturing company based in Abingdon, Oxfordshire and provides a range of services to assist in the design and development of medical devices, manufacturing and associated testing. OxDevice is a specialist in developing devices for endovascular & neurovascular intervention, medical sensor development, clean-room manufacturing, medical electronics, nitinol devices and medical device coating services. OxDevice Medical is part of the Kaleidex Group.

www.oxdevice.com

Quartus Engineering

208

Quartus helps engineering teams make confident, data-driven decisions through advanced simulation and analysis. Using FEA, motion simulations, and product modeling we model real-world behavior before hardware is built. With Quartus on your team you can move forward faster, predict performance earlier, and deliver with certainty.

www.quartus.com

RBP Chemical Technology

102

Founded in 1954, RBP Chemical Technology Inc. is a world class developer and supplier of our proprietary chemicals for high technology industries. For nearly 20 years, RBP has assisted the medical industry with surface chemistry solutions for cleaning, electropolishing, and passivating implanted medical devices.

www.rbpchemical.com

Resonetics

200

Resonetics provides advanced manufacturing solutions for MedTech applications, with strong capabilities in nitinol processing, raw materials, and component manufacturing. Its nitinol vertical integration from Melt to Market approach spans the full product lifecycle, from raw material production to finished device components. This model enables greater control, quality, and consistency while helping accelerate development and scale production for critical medical technologies.

www.resonetics.com

Smarter Alloys

107

Smarter Alloys is a global leader in shape memory materials innovation. Through proprietary precision manufacturing and processing capabilities including wire processing, laser cutting, and advanced technologies such as Multiple Memory Material (MMM), Smarter Alloys enables shape memory alloys to deliver expanded functionality across a wide range of applications.

www.smarteralloys.com

Tech Tube

206

Tech Tube has been working with the medical industry for the past 15 years. We've helped engineer medical implants such as stents, pacemaker guide wires, and bone screws. Our products can be found in medical and dental instruments and blood testing equipment worldwide. Our company has helped modernize the medical industry and has improved the lives of thousands of patients.

The tubing we manufacture and the alloys we use cover a wide spectrum of medical applications. We also specialize in nitinol, an alloy that is revolutionizing the medical industry through the metal's super-elastic and shape-memory properties, allowing surgeons to implant our stents with superior reliability and effectiveness.

www.techtube.com

COMPANY DESCRIPTIONS

Ulbrich Specialty Wire Products

205

Ulbrich is a global manufacturer of precision stainless steels and specialty metals, producing high-performance strip, foil, and wire products for demanding industries. Through Ulbrich Specialty Wire Products, the company delivers precision fine wire and shaped wire engineered to exact specifications. Ulbrich also offers advanced Nitinol capabilities, supporting medical and high-performance applications that require shape memory and superelastic performance. With nearly a century of metallurgical expertise, Ulbrich partners with customers to deliver innovative material solutions with exceptional quality and precision.

www.ulbrich.com

Vascotube GmbH

112

Vascotube, a Cirtec Company, specializes in custom manufacturing of superior Nitinol and MP35N tubing for medical devices. With 20 years of production expertise and an unwavering focus on quality, Vascotube's tubing features the highest fatigue life performance, tightest tolerances, unique OD/WT ratio capabilities and greatest surface smoothness. We invite you to visit our booth to learn more about how we can enhance your medical device performance by pushing the limits of technology with our unrivaled precision tubing.

www.vascotube.com

*Exhibitor list as of 4/22/26