



40<sup>th</sup> ANNUAL MEETING OF THE  
SOCIETY FOR THERMAL MEDICINE  
MAY 7-9, 2026 ~ SAVANNAH, GA

## STM 2026 SESSION SUMMARY

Start time	Thursday May 7	Friday May 8	Saturday May 9	Start time	
08:00		Modeling 2 Session <i>Room 203-204</i>	FUS/LITT Session <i>Room 203-204</i>	08:00	
09:00	Governing council meeting <i>Room 205</i>			09:00	
09:30		Break <i>(with ASLMS)</i> <i>Exhibit Hall A</i>		09:30	
10:00	Opening remarks <i>Room 203-204</i>	Biology Session <i>Room 203-204</i>	Break <i>(with ASLMS)</i> <i>Exhibit Hall A</i>	10:00	
10:15	Modeling 1 Session <i>Room 203-204</i>			10:15	
10:30			Panel Discussion: The Future of Hyperthermia <i>Room 203-204</i>	10:30	
12:00	STM Lunch <i>Room 205</i>	Lunch <i>(with ASLMS)</i> <i>Exhibit Hall A</i>	STM Business Lunch <i>Room 205</i>	12:00	
13:00	Plenary session <i>(with ASLMS)</i> <i>Room Chatham BC</i>	Magnetic nanoparticles session <i>Room 203-204</i>	See you next year!	13:00	
14:30	Break				14:30
15:00	Clinical Session <i>Room 203-204</i>	Break <i>(with ASLMS)</i> <i>Exhibit Hall A</i>		15:00	
15:30		Nanomedicine session <i>Room 203-204</i>		15:30	
16:30		Awards Ceremony <i>Room 203-204</i>		16:45	
17:00	STM Reception <i>TBD</i>			17:00	
17:30		Happy Hour <i>(with ASLMS)</i> <i>Exhibit Hall A</i>		17:30	
18:00				18:00	
19:30	Dinner on your own <i>Enjoy Savannah's best cuisine</i>	<b>Robinson dinner</b> <i>(Registration required)</i> <i>Restaurant: TBD</i>			19:30
Registration 7:00-17:00 (Closes 17:30 on May 7 <sup>th</sup> ) <i>Rotunda Registration &amp; Office</i>					



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STM 2026  
Program Organizing Committee



Chair: Jason Molitoris, MD, PhD

University of Maryland School of Medicine

Committee:

Anilchandra Attaluri, PhD

Hans Crezee, PhD

Sergio Curto, PhD

Mark W. Dewhirst, DVM, PhD

Chris Diederich, PhD

Ruud P.M. Dings, PhD, MSc

Michael Graner, PhD

Robert Griffin, PhD

Dieter Haemmerich, PhD, DSc

Nicole Levi, PhD

Arlene L. Oei, PhD

Alireza Mohammadi, MD

Allison Payne, PhD

Punit Prakash, PhD

Ashish Ranjan, BVSc, PhD

Dario Rodrigues, PhD

Gal Shafirstein, DSc, MSc, BSc

Ruediger Wessalowski, MD

Jennifer Yu, MD, PhD

The Pennsylvania State University Harrisburg

Amsterdam University Medical Center, University of Amsterdam

Erasmus Medical Center

Duke Cancer Institute

University of California, San Francisco

University of Arkansas for Medical Sciences

University of Colorado

University of Arkansas

Medical University of South Carolina

Wake Forrest

Amsterdam University Medical Center, University of Amsterdam

Cleveland Clinic

University of Utah

The George Washington University

UT Southwestern Medical Center

University of Maryland School of Medicine

Roswell Park Comprehensive Cancer Center

Heinrich Heine University

Cleveland Clinic



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STM 2025 - Election Results



Newly elected Officers and Councilors include:

**Vice President-Elect: Engineering/Physics**

**Dario Rodrigues, PhD**

University of Maryland School of Medicine

**Councilor: Biology/ Chemistry**

**Timo ten Hagen**

Erasmus Medical Center

**Councilor: Clinical/ Medical**

**Johannes Bogers**

University of Antwerp

**Councilor: Engineering/ Physics**

**Fateme Esmailie**

University of North Texas

**Treasurer**

**Christopher Dillon**

Brigham Young University

These newly elected Officers and Councilors will take office during the Annual Business Meeting scheduled to take place Saturday, May 9<sup>th</sup>.



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STM 2026 - STM Governing Council



Officers

<b>President</b>	<b>Arlene L. Oei, PhD</b>	Amsterdam University Medical Center
<b>President-Elect</b>	<b>Jason Molitoris, MD, PhD</b>	University of Maryland School of Medicine
<b>Vice President-Elect:</b>	<b>Dario Rodrigues, PhD</b>	University of Maryland School of Medicine
<b>Secretary/Treasurer</b>	<b>Christopher Dillon</b>	Brigham Young University
<b>Past-President</b>	<b>David Fuentes</b>	MD Anderson
<b>Editor</b>	<b>Johannes Crezee</b>	Amsterdam University Medical Center

**Councilors: Biology/ Chemical Sciences**

2024-2026	Michael Horsman, PhD	Aarhus University
2025-2027	Ruud Dings, PhD	University of Arkansas
2026-2028	Timo ten Hagen, PhD	Erasmus Medical Center

**Councilors: Clinical/ Medical Sciences**

2024-2026	Ruediger Wessalowski, MD	Heinrich Heine University
2025-2027	Ashish Ranjan, PhD	UT Southwestern Medical Center
2026-2028	John-Paul Bogers, MD, PhD	University of Antwerp

**Councilors: Engineering/ Physical Sciences**

2024-2026	Anilchandra Attaluri, PhD	The Pennsylvania State University Harrisburg
2026-2028	Fateme Esmailie, PhD	University of North Texas



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STM 2026 - Conference program



THURSDAY, MAY 7

Time	Description	Name	Location
07:00-17:30	Registration		Rotunda Registration & Office
09:00-10:00	Governing council meeting		205
10:00-10:15	Opening remarks	Jason Molitoris	203-204
<b>10:15-12:00</b>	<b>Session 1: Modeling 1</b> <i>Chairs: Dario Rodrigues and Fateme Esmailie</i>		203-204
<b>10:15-10:45</b>	<b>Computer Simulations for Treatment Planning in Photothermal therapy (Invited talk)</b>	<b>Gal Shafirstein</b>	
10:45-11:00	Hyperthermia boosting efficacy of Radiotherapy: Final report of the European H2020-MSCA-ITN-2020-955625 'HYPERBOOST' consortium	Johannes Crezee	
11:00-11:15	Toward standardized quality assurance phantoms for deep hyperthermia therapy	Dario Rodrigues	
11:15-11:30	Evaluating Thermal Safety of Pulsed Field Ablation Across Waveforms	Fateme Esmailie	
11:30-11:45	Computational Modeling of Thermoembolization in Hepatic Vasculature: Comparing Lumped and Phase-Field Approaches for Immiscible Globular Flow	Rohan Amare	
11:45-12:00	Computational Evaluation of Trans-Arterial Magnetic Thermal Therapy for Hepatocellular Carcinoma	Naveen Konreddy	
12:00-13:00	STM Sponsored Lunch		205
13:00-14:30	ASLMS Plenary – Emerging devices	Emil Tanghetti Jordan Wang	Chatham BC
14:30-15:00	Break		205
<b>15:00-16:35</b>	<b>Session 2: Clinical</b>		203-204



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<i>Chairs: Eric Cressman and Yomna Khamis</i>		
<b>15:00-15:30</b>	<b>Real-time molecular tools for unraveling effects of interventions (Invited talk)</b>	<b>Erik Cressman</b>
15:30-15:45	Preoperative radiation therapy with concurrent superficial hyperthermia for soft tissue sarcoma: long-term outcomes, toxicity, and surgical complications	Yomna Khamis <i>2026 SITA Winner</i>
15:45-16:00	The rationale for monitoring both skin and invasive temperatures in locoregional recurrent breast cancer patients treated with postoperative re-irradiation and superficial hyperthermia exceeding 1 cm target depth	Johannes Crezee
16:00-16:15	Overcoming Early Local Treatment Failure in High-Risk Pediatric Rhabdomyosarcoma: Regional Hyperthermia as a Treatment-Modifying Strategy	Ruediger Wessalowski
16:15-16:30	Modelling the Impact of Increasing Hyperthermia Fractions on EQD2 and Tumor Control Probability	Sergio Curto
16:30-16:45	Modulated Electro-Hyperthermia Integration with Neoadjuvant Chemoradiotherapy Enhances Tumor Regression and Anal Preservation in Rectal Cancer under a Total Neoadjuvant Therapy Strategy	Heng-Jui Chang
16:45-17:00	Can Less Be More In The Art of Patient Conversation?	Stephan Bodis
17:00-18:30	STM Reception	TBD



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**FRIDAY, MAY 8**

Time	Description	Name	Location
07:00-17:00	Registration		Rotunda Registration & Office
<b>08:00-09:30</b>	<b>Session 3: Modeling 2</b> <i>Chairs: Allison Payne and Shreeniket Pawar</i>		203-204
<b>08:00-08:30</b>	<b>Advancements in MR thermometry for thermal therapies (Invited talk)</b>	<b>Allison Payne</b>	
08:30-08:45	Magnetic Thermal Therapy for Glioblastoma: Quantifying Thermal-Dose Uncertainty Under Sparse Thermometry Constraints	Anilchandra Attaluri	
08:45-09:00	Tissue Property Estimation and 3D Temperature Reconstruction from Multipoint Thermometry for Pulsed Magnetic Nanoparticle Thermal Therapy	Shreeniket Pawar	
09:00-09:15	Design and Validation of an In Vitro Setup for Thermal Exposure of Tumor Spheroids	Patricia Guenkawa <i>2026 SITA Winner</i>	
09:15-09:30	Impact of internal carotid artery in mild therapeutic hypothermia for hearing loss prevention	Fateme Esmailie	
09:30-10:00	Break		Exhibit Hall A
<b>10:00-12:00</b>	<b>Session 4: Biology</b> <i>Chairs: Arlene Oei and Ruud Dings</i>		203-204
<b>10:00-10:30</b>	<b>Myeloid cells are major obstacles to cancer immunity during systemic thermal therapy (Invited talk)</b>	<b>Sharon Evans</b>	
<b>10:30-11:00</b>	<b>It takes a lot of nerve to keep a T cell down! New insights into the role of thermal stress in immunosuppression (Invited talk)</b>	<b>Elizabeth Repasky</b>	
11:00-11:15	The role of hyperthermia in HIPEC	Arlene L. Oei	
11:15-11:30	Development of a noninvasive ovarian cancer murine model of hyperthermic intraperitoneal chemotherapy (HIPEC)	Samuel Lee Sangmyung	
11:30-11:45	Thermal regulation of dysbiotic tumor vasculature	Ruud Dings	
11:45-12:00	Spacing Matters: Fractionation in Hyperthermia Treatment of Pancreatic Cancer Cells	Johannes Bogers	
12:00-13:00	Lunch		Exhibit Hall A
<b>13:00-15:00</b>	<b>Session 5: Magnetic nanoparticles</b> <i>Chairs: Anilchandra Attaluri and Hayden Carlton</i>		203-204
<b>13:00-13:30</b>	<b>Design, Verification and Validation of a Spatially Confined Magnetic Nanoparticle Thermal Therapy Device (Invited talk)</b>	<b>Anilchandra Attaluri</b>	



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13:30-13:45	Verification and Validation in Canine Cadaver of an MPI-Integrable RF Head Coil for Magnetic Particle Hyperthermia	Hayden Carlton	
13:45-14:00	Verification and Validation of an Autotuning Proportional-Integral-Derivative Controller for Spatially Confined Magnetic Particle Hyperthermia	Shreeniket Pawar	
14:00-14:15	On-demand Honokiol anti-cancer drug release from electrospun PLGA scaffolds through magnetic actuation	Logan Martelly	
14:15-14:30	Development and validation of a magnetic particle imaging-guided modeling workflow for magnetic hyperthermia in 3D printed mouse phantoms	Aniela Nozka	
14:30-14:45	Synergistic Ablation Treatment for Superficial Cancer Tumors	Anan Copty	
15:00-15:30	Break		Exhibit Hall A
<b>15:30-16:30</b>	<b>Session 6: Nanomedicine</b> <i>Chairs: Dieter Haemmerich and Adeniyi Oyebade</i>		203-204
15:30-15:45	Imaging Chemotherapy Delivery from Thermosensitive Liposomes by Fluorescence Imaging	Dieter Haemmerich	
15:45-16:00	Macrocyclic Histone Deacetylase Inhibitor-Based Ionic Nanomedicines for Cancer Treatment	Adeniyi Oyebade <i>2026 SITA Winner</i>	
16:00-16:15	Photothermal Treatment of Infected Breast Cancer Using Polymeric Nanoparticles	Spencer Phillips	
16:15-16:30	Ionic Nanomedicines: Synthesis, In Vitro and In Vivo Photothermal Properties	Noureen Siraj	
<b>16:30-17:30</b>	<b>Awards session</b>		203-204
16:30-16:45	SCHOLAR IN TRAINING AWARD		
16:45-17:00	GEORGE M. HAHN AWARD		
17:00-17:30	J. EUGENE ROBINSON AWARD and LECTURE		
17:30-18:00	Happy hour (with ASMLS)		Exhibit Hall A
19:30-21:30	Robinson dinner		TBD



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**SATURDAY, MAY 9**

<b>Time</b>	<b>Description</b>	<b>Name</b>	<b>Location</b>
07:00-17:00	Registration		Rotunda Registration & Office
<b>08:00-10:00</b>	<b>Session 7: FUS/LITT</b> <i>Chairs: Ashish Ranjan and Christopher Dillon</i>		203-204
<b>08:00-08:30</b>	<b>Focused Ultrasound–Enabled Chemoimmunotherapy (Invited talk)</b>	<b>Ashish Ranjan</b>	
08:30-08:45	Sonothermogenetic Control of CAR T Cells in Brain Tumors with Closed-Loop MRgFUS	Costas Arvanitis	
08:45-09:00	Feasibility of a ring-array ultrasound transducer for hyperthermia delivery and temperature monitoring in soft tissue sarcoma	Dario Rodrigues	
09:00-09:15	Light Induced Tissue Heating and Oxygen Consumption during Interstitial Photodynamic Therapy	Gal Shafirstein	
09:15-09:30	Experimental and Numerical Characterization of Convective Heat Transfer Coefficients for Skull Cooling in Transcranial Focused Ultrasound	Christopher Dillon	
09:30-09:45	Retrospective Thermal Modeling of Transcranial MR-Guided Focused Ultrasound Thalamotomy with Increased Convective Cooling	Noah Francom	
09:45-10:00	Feasibility of Ablated Tissue Removal Using Tissue Phantoms in a Minimally Invasive LITT–iPDT Workflow for Glioblastoma	Trent Townsend	
10:00-10:30	Break		Exhibit Hall A
<b>10:30-12:00</b>	<b>Panel Discussion: Charting STM's Future</b>		203-204
12:00-13:00	STM business lunch		205