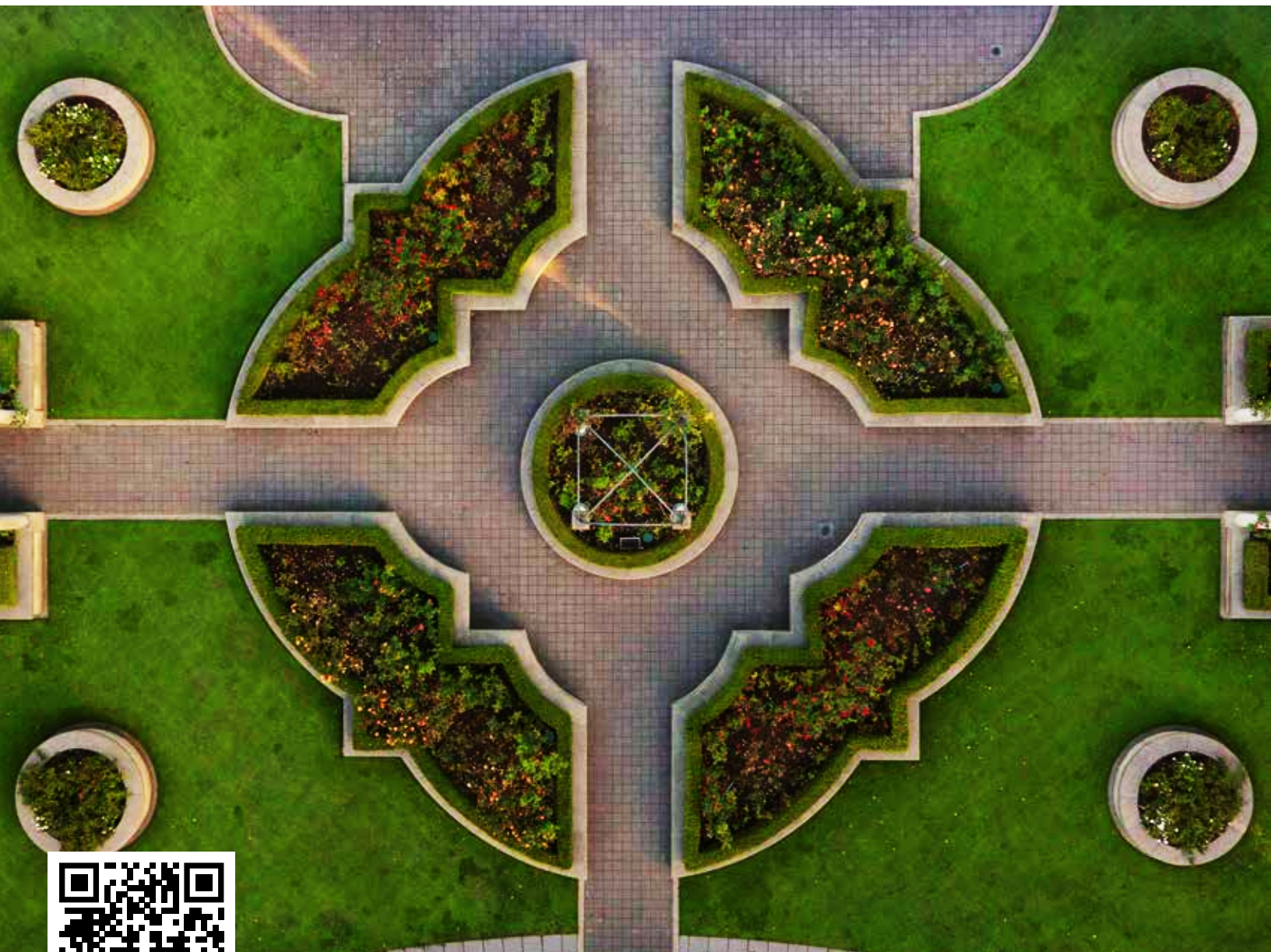




Artificial Intelligence for Composite Materials Conference

Vancouver, Canada - August 5-7, 2026



composites-ai.org

Welcome to AIComp 2026 — the second edition of a timely conference series dedicated to advancing the integration of Artificial Intelligence into composite materials research and industrial applications.

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AUGUST 5-7, 2026

CONFERENCE VENUE
GORDON B. SHRUM BUILDING
6088 UNIVERSITY BOULEVARD, VANCOUVER, BC



VISITORS CAN CONNECT TO
CAMPUS WI-FI: UBCVISITOR
OR EDUROAM

UBC MAP - PAGE 16



WELCOME RECEPTION - AUG 5

UBC MUSEUM OF ANTHROPOLOGY
6393 NW Marine Drive



GALA DINNER - AUG 6

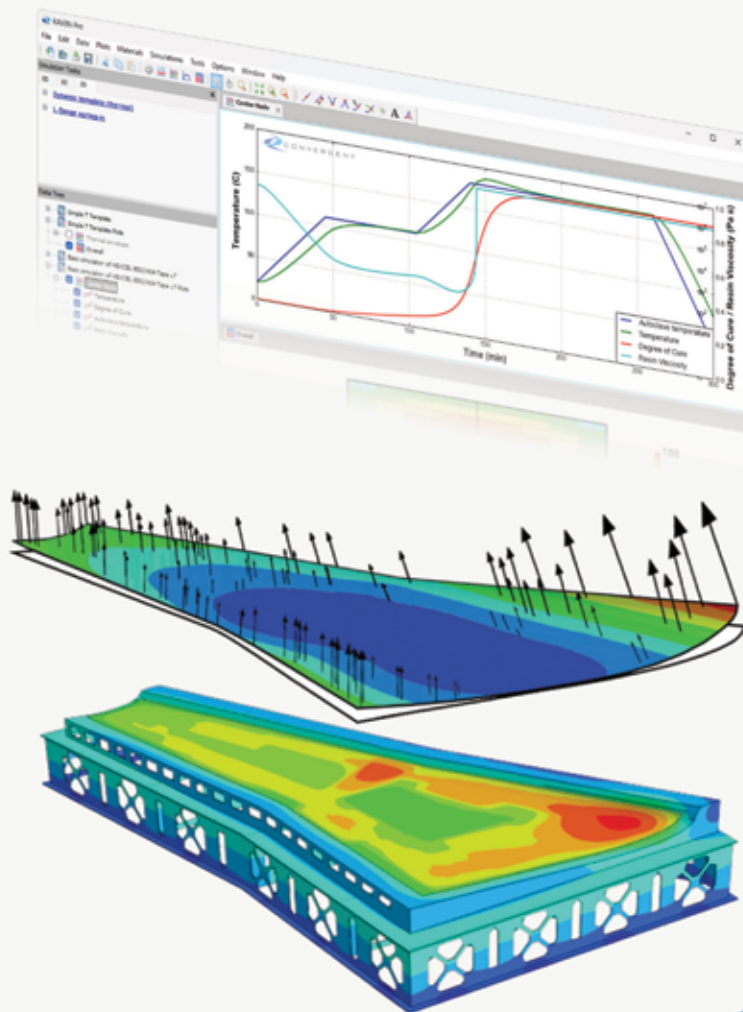
SAGE AT UBC
The University Centre, 6331 Crescent Road

Simulate the Process. Manufacture with Confidence.

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Convergent delivers trusted, predictive, data and AI-driven solutions that help composite manufacturers evaluate, design, troubleshoot, and optimize processes before production.

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- Residual Stress & Tooling Compensation
- Efficient Simulation Workflows
- Manufacturing Process Sensors & Monitoring

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Event Schedule: Day 1

Wednesday, August 5, 2026

8:00 **Registration and breakfast**

LOCATION: SHRUM LOBBY

8:45 **Opening Ceremony**

HOST: Alireza Forghani

LOCATION: SHRUM B1001

9:00 **PLENARY LECTURE:** "The Abstraction Layer: *Industrial Scale for AI/ML Starts with How We Encode Knowledge*"

PRESENTER: Dr. Carla Reynolds
(The Boeing Company, USA)

CHAIR: Iryna Tretiak (Bristol Composites Institute)

LOCATION: SHRUM B1001

9:50 **Coffee break**

SESSION ONE: AI-DRIVEN DESIGN AND INDUSTRIAL APPLICATIONS IN COMPOSITES

CHAIRS: Donna Dykeman (NCC),
Harika Tankasala (Synopsis)

LOCATION: SHRUM B1001

SESSION TWO: AI FOR NON-DESTRUCTIVE TESTING AND STRUCTURAL HEALTH MONITORING

CHAIRS: Isabel Paris (Bombardier),
Johannes Reiner (Deakin University)

LOCATION: SHRUM B1009

10:10 **TALK:** Machine Learning-Assisted Design of Stochastic Voronoi Lattices for Enhanced Energy Absorption

PRESENTER: H. Yazdani Servestani
(Aerospace Manufacturing Technologies Centre)

CO-AUTHORS: M. Thompson, A. Sohrabi-Kashani, E. Kiyani, E. Filippi, D.A.V. Egmond, M. Rahmat, B. Ashraf, M. Karttunen

TALK: AI-Enabled Metrology Framework for Damage Assessment of Hydrothermally Aged Unidirectional Glass-Fiber-Reinforced Thermoplastics

PRESENTER: Jorge Palacios Moreno
(University of Alberta)

CO-AUTHOR: Pierre Mertiny

	SESSION ONE (CONT.)	SESSION TWO (CONT.)
	LOCATION: SHRUM B1001	LOCATION: SHRUM B1009
10:30	TALK: Rapid Inverse Design of Meso-Architected Composites Using Sequence-Based Deep Learning PRESENTER: B. Gangadhara Prusty (AMAC) CO-AUTHOR: Saral Mittal	TALK: Machine Learning Interpretation of Acoustic Emission Signals for Mixed-Mode Damage Detection in Composites PRESENTER: Johannes Reiner (Deakin University) CO-AUTHORS: Ruben Erives, Xing-Yuan Miao, Bent F. Sørensen
10:50	TALK: Physics-Informed Bayesian Gaussian Processes for Accelerated Characterization in Composite Materials: From Formulation to Performance PRESENTER: Paulina Portales Picazo (University of Washington) CO-AUTHOR: Navid Zobeiry	TALK: The Effect of Photo-Quality on Photo-Learning Waviness Segmentation in NCFs PRESENTER: Umeir Khan (University of Bristol) CO-AUTHORS: Vincent. K. Maes, Robert Hughes, Jon Wright, Petar Zivkovic, Turlough McMaho, James Kratz
11:10	TALK: AI-Driven Design and Optimization of Activated Carbon Candidates for Carbon-Based Composite Sorbents in CO2 Capture PRESENTER: Saeid Tajbakhsh (University of British Columbia) CO-AUTHORS: Faezeh Hajiali, Naoko Ellis, Bhushan Gopaluni	TALK: Unsupervised Classification of Defects in AFP Profilometry Scans PRESENTER: Harvey Buhagiar (Bristol Composites Institute) CO-AUTHORS: I. Tretiak , B. El Said
11:30	TALK: Generative Design of Semi-Auxetic Cellular Laminates via Probabilistic Machine Learning and Bayesian Inference: An Uncertainty-Aware Design Perspective PRESENTER: Fereshteh Hassani (University of Victoria; CAMTEC) CO-AUTHORS: Huilong Fu, Navid Zobeiry, Sardar Malek	TALK: Identification of Impact Damage in Composite Structures from Sparse Strain Sensor Data Using Graph Neural Networks PRESENTER: Christopher Gorsky (DLR) CO-AUTHORS: Raffael Bogenfeld, Tobias Wille
		SESSION TWO END

SESSION ONE (CONT.)

LOCATION: SHRUM B1001

- 11:50** **TALK:** KPC-RAG: A Retrieval-Augmented Generation Chatbot for Democratizing Composites Knowledge
PRESENTER: Shayan Fahimi (Convergent Manufacturing Technologies)
CO-AUTHORS: Marcelo Gorrini, Anoush Poursartip, Casey J. Keulen

12:10 **Lunch**

- 13:20** **PLENARY LECTURE:** "From Process Simulation to Quality-Aware Digital Twins in the age of AI"
PRESENTER: Dr. Anoush Poursartip
(University of British Columbia, Canada)
CHAIR: Pascal Hubert (McGill University)

LOCATION: SHRUM B1001

SESSION THREE: MECHANICAL BEHAVIOUR AND FAILURE PREDICTION WITH AI

CHAIRS: Meysam Rahmat (NRC Canada), Michael May (University of Stuttgart)

LOCATION: SHRUM B1001

- 14:20** **TALK:** Impact Damage Prediction of Composite Laminates Using Machine Learning
PRESENTER: Meysam Rahmat (NRC Canada)
CO-AUTHOR: Zohreh Asaee

- 14:40** **TALK:** Data-Efficient Transfer Learning Framework for Digital Allowables of Open-Hole Compression Strength of Composite Laminates
PRESENTER: Xin Liu (University of Texas at Arlington)
CO-AUTHORS: Sung Park, Nav Muraliraj

- 15:00** **TALK:** Deep Learning and Multi-scale Strategies for Failure Modelling of Composite Structures with Complex Material Architectures
PRESENTER: Aewis Kw Hii (Bristol Composites Institute)
CO-AUTHORS: Ruggero Filippone, Stephen R. Hallett, Alberto Pirrera, Bassam El Said

SESSION THREE (CONT.)

LOCATION: SHRUM B1001

15:20

TALK: Explainable Physics-Informed Machine Learning for Mechanical Property Prediction and Formulation Design of Recycled Polymer Composites

PRESENTER: Oumayma Tajir (Université de Sherbrooke)

CO-AUTHORS: Elkoun E. Saïd, Masrou M. Tawfik

15:40

Coffee break

INDUSTRY KEYNOTES

CHAIR: Goran Fernlund (Convergent Manufacturing Technologies)

LOCATION: SHRUM B1001

16:00

INDUSTRY KEYNOTE: "Credibility Over Accuracy: AI; Physical Fidelity; and the Future of Composites Simulation"

PRESENTER: Dr. Sunil Acharya (ANSYS/Synopsys, USA)

16:30

INDUSTRY KEYNOTE: "Artificial Intelligence-Driven Composites Virtual Twins in the 3DEXPERIENCE Platform – Industry World Models"

PRESENTER: Mr. Etienne Ardouin (Dassault Systemes Americas, USA)

17:0

End of Day 1 Program

WELCOME RECEPTION

Join us for drinks and refreshments at 6:30 pm at the UBC Museum of Anthropology

6393 NW Marine Drive



AI COMP 2026 / AUGUST 5-7, 2026 AI & COMPOSITES CONFERENCE

Composites Design. Reimagined by AI.

The 3DEXPERIENCE® Platform - bridging AI, simulation and composite engineering.

DESIGN

Full composite layup with CATIA
— fiber orientation, BoM, and
digital continuity in one place.

Simulate

Validate every ply before
production with SIMULIA and
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From engineering to shop floor
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Dassault Systèmes is a world leader in 3D Design, Digital Mock-Up, and Product Lifecycle Management, serving the marketplace with the 3DEXPERIENCE platform — a BUSINESS EXPERIENCE platform providing software solutions for every organization, from engineering to marketing to sales. Powered by 3D design, analysis, simulation, and intelligence software in a collaborative environment, the 3DEXPERIENCE platform serves 12 industries and delivers a rich portfolio of Industry Solution Experiences.

Meet us at AIComp 2026 — August 5–7, 2026

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Event Schedule: Day 2

Thursday, August 6, 2026

8:00	Registration and breakfast	
	LOCATION: SHRUM LOBBY	
8:30	PLENARY LECTURE: “AI-Enabled Forward Prediction and Inverse Design of Composite Materials” PRESENTER: Dr. Pavana Prabhakar (University of Wisconsin-Madison, USA) CHAIR: Bassam El Said (Bristol Composites Institute)	
	LOCATION: SHRUM B1001	
9:20	ACADEMIC KEYNOTE: “FENNM: A Hybrid Variational Framework for Robust Structural Modelling and Inverse Problem Solving” PRESENTER: Dr. Frédérick Gosselin (Polytechnique Montreal, Canada) CHAIR: Reza Vaziri (UBC)	ACADEMIC KEYNOTE: “From Images to Insights: AI for Characterization and Simulation of Fiber-reinforced Composites”* PRESENTER: Dr. Mahoor Mehdikhani (KU Leuven, Belgium) CHAIR: Huidi Ji (Dassault Systèmes)
	LOCATION: SHRUM B1001	LOCATION: SHRUM B1009
9:50	Coffee break	
	SESSION THREE: MECHANICAL BEHAVIOUR AND FAILURE PREDICTION WITH AI CHAIRS: Reza Vaziri (UBC), Marco Petrolo (MUL2 Lab, Politecnico di Torino)	SESSION FOUR: DATA-DRIVEN SURROGATE MODELS AND ACCELERATED SIMULATION CHAIRS: Trevor Campbell (UBC), Juhyeong Lee (Utah State University)
10:10	TALK: Bayesian Inference on Finite Element Input Parameters to Simulate Variability in Progressive Crush Tests of Composites PRESENTER: Johannes Reiner (Deakin University) CO-AUTHOR: Reza Vaziri	TALK: Physics-led Generation of Missing Data for Effective Use of AI/ML PRESENTER: Harika Tankasala (Synopsys) CO-AUTHORS: Giuseppe Romano, Nehir Kandemir, Edoardo Rusconi

Schedule: Day 2

	SESSION THREE (CONT.)	SESSION FOUR (CONT.)
	LOCATION: SHRUM B1001	LOCATION: SHRUM B1009
10:30	TALK: Modeling Short-Fiber Reinforced Composites with Rotation-Free Parametric DMN PRESENTER: Huidi Ji (Dassault Systèmes) CO-AUTHOR: Tianyi Li	TALK: A Novel Output Space Sampling Method for Bayesian Modelling of Composites PRESENTER: Luca Patrignani (Imperial College London) AUTHORS: Runze Li, Mário Miranda, Silvestre T. Pinho
10:50	TALK: Using Explainable Machine Learning to Support the Modeling Strategies of Composite Structures PRESENTER: M. Petrolo (MUL2 Lab, Politecnico di Torino) CO-AUTHORS: G. Candita, A. Pagani, E. Carrera, A. Racionero Sánchez-Majano	TALK: Development of Probabilistic Surrogate Model for Uncertainty Quantification in Low Velocity Impact (LVI) of Caron/ Epoxy Woven Composites PRESENTER: Sanghyun Yoo (DLR) CO-AUTHORS: Mathieu Vinot, Nathalie Toso, Heinz Voggenreiter
11:10	TALK: Robustness Analysis of Data-Driven Impact Localization Models in the Presence of Experimental Uncertainty PRESENTER: Emanuel Von Cramon-Taubadel (University Rostock) CO-AUTHORS: Martin Becker, Philipp Weißgraeber	TALK: Data-Efficient Virtual Materials Twin for Ternary Short Fiber-Magnetic Particle Polymer Composites via AI-Calibrated Microstructure-Based FEA PRESENTER: Yingnan Wang (University of Alberta) CO-AUTHORS: Pierre Mertiny
11:30	TALK: Reinforcement Learning-Driven Impact Energy Optimization Using Transformer-Based Surrogate Modeling for Multi-Modal Damage Prediction In CFRP/GFRP Laminates PRESENTER: Bal Krishna Raj Vijeta (Indian Institute of Science) CO-AUTHOR: G. Narayana Naik	TALK: AI-Enabled Composite Textiles within the UPWARS Sustainable Innovation Framework PRESENTER: Mohammad S. Rouhi (RISE) CO-AUTHORS: Qunyue Liang, Sandra-Meriem Mokli, Ming-Jun Zhang, Ahmed Mehaoua, Erik Marklund, Sofiane Guessasma
11:50	Lunch	

	SESSION THREE (CONT.)	SESSION FOUR (CONT.)
	CHAIR: Carlos Gonz��les (IMDEA; Universidad Polit��cnica de Madrid) LOCATION: SHRUM B1001	CHAIR: Xin Liu (University of Texas at Arlington) LOCATION: SHRUM B1009
13:00	TALK: Graph Transformers for Effective Prediction of Progressive Failure Evolution in Composite Structures PRESENTER: Luca Patrignani (Imperial College London) CO-AUTHOR: Silvestre T. Pinho	TALK: Uncertainty Characterization of Thermal Shock Performance of Aerospace Composites with Physics-Informed Neural Networks PRESENTER: Juhyeong Lee (Utah State University) CO-AUTHORS: Scott Millen, Xiaodong Xu
13:20	TALK: Physics Informed Neural Networks for the Micromechanical Analysis of Composite and Structural Metamaterials PRESENTER: Yunfa Zhang (NRC Canada) CO-AUTHORS: Liying Jiang, Ali Yousefpour	TALK: AI-Enabled Multiscale ICME Workflow for Injection-Molded Composites in LS-DYNA PRESENTER: Sunil Acharya (Synopsis) CO-AUTHORS: Arash Kargar-Estahbanati, Haoyan Wei
13:40	ACADEMIC KEYNOTE: "Using AI in Engineering, Research, and Education" PRESENTER: Dr. Julia Rubin (University of British Columbia, Canada) CHAIR: Francisco Chinesta (PIMM, Arts et M��tiers Institute of Technology) LOCATION: SHRUM B1001	
14:10	PANEL DISCUSSION: "Beyond Plausible: AI Trustworthiness in Composites Engineering" MODERATOR: Anthony Floyd (Convergent Manufacturing Technologies) LOCATION: SHRUM B1001	
15:40	Coffee break	

Schedule: Day 2

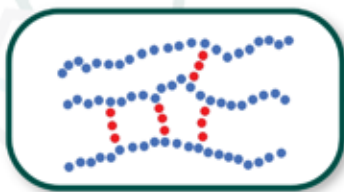
	WORKSHOP SESSION ONE	WORKSHOP SESSION TWO
	LOCATION: SHRUM B1001	LOCATION: SHRUM B1009
16:00	WORKSHOP: "Uncertainty Aware Process Simulation" PRESENTERS: Dr. Goran Fernlund (Convergent Manufacturing Technologies) Mr. Alberto Mussali (Convergent Manufacturing Technologies)	WORKSHOP: "Bayesian Inverse Problems via Parallel Tempering" PRESENTER: Dr. Trevor Campbell (University of British Columbia)
	WORKSHOP: "Physics-Informed Machine Learning for Composites: From Processing Physics to Qualification and Certification" PRESENTER: Dr. Navid Zobeiry (University of Washington)	WORKSHOP: "Roundtable: Composites Education in the Age of AI" PRESENTER: Dr. Anoush Poursartip (University of British Columbia)
18:00	End of Day 2 Program	

19:00 **Gala Dinner: UBC Sage**
STUDENT AWARDS HOST: Trevor Campbell
 The University Centre, 6331 Crescent Road



The Knowledge in Practice Centre

An open, online resource for learning and applying scientific knowledge to the practice of composites manufacturing



FOUNDATIONAL KNOWLEDGE

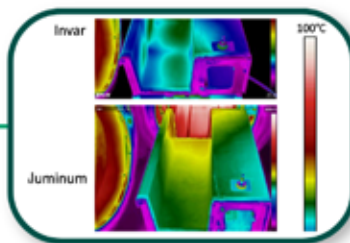
Composites science articles
(A162 Thermosetting polymers)



Open discussions on diversity and inclusion in the industry



Visit the KPC



SYSTEMS KNOWLEDGE

Systems approach to manufacturing
(A142 Effect of tooling in a thermal management system)



PERSPECTIVES

Live and recorded webinars with experts in the field



SYSTEMS CATALOGUE

Materials, tooling, and equipment (A176 Hot press)



CASE STUDIES

Sanitized projects with industry for case studies (C101 Bike component)



PRACTICE

Practical how-to pages with instructional images and videos (A296 Wet layout)



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The **Composites Research Network (CRN)** works with the **Composites Knowledge Network (CKN)** to connect industry and academia to turn research into practical manufacturing solutions.

Our Vision

Building a vibrant, leading edge composites industry through collaboration, knowledge in practice and innovation.

Collaborate

Bring academia and industry together to solve shared manufacturing challenges.

Strengthen

Build the capabilities of Canadian manufacturers to innovate and grow.

Advance

Develop and share best practices that improve composites manufacturing.

Empower

Expand access to trusted knowledge that supports industry success.

Driving Industry Impact



250+ companies supported



60+ industry events



5,000+ industry professionals engaged



250+ highly qualified professionals trained

Why It Matters

Composites are reshaping aerospace, automotive, renewable energy, construction and healthcare by enabling products that are stronger, lighter, safer and more sustainable.

CRN helps ensure Canadian manufacturers have the knowledge, partnerships and tools to stay competitive.



Visit the CRN



Visit the CKN

Event Schedule: Day 3

Friday, August 7, 2026

8:00	Registration and breakfast	
	LOCATION: SHRUM LOBBY	
8:30	PLENARY LECTURE: "AI for Scientific Discovery and Engineering Design" PRESENTER: Dr. Steven L. Brunton (University of Washington, USA) CHAIR: Navid Zobeiry (University of Washington)	
	LOCATION: SHRUM B1001	
	SESSION FOUR: DATA-DRIVEN SURROGATE MODELS AND ACCELERATED SIMULATIONS CHAIRS: Shayan Fahimi (Convergent Manufacturing Technologies), Dan Humfeld (Grace Consulting LLC)	SESSION FIVE: AI AND STATISTICAL METHODS FOR PROCESS MODELLING OF COMPOSITES CHAIRS: Martin Dube (ÉTS Montreal), Tomonaga Okabe (Tohoku University)
	LOCATION: SHRUM B1001	LOCATION: SHRUM B1009
9:20	TALK: Bayesian Calibration and Uncertainty Quantification to Support Bonded Composite Textile Modeling with Limited Data PRESENTER: Matthew Kirby (Southwest Research Institute) CO-AUTHORS: Erin C. DeCarlo, Marcus L. Stanfield, David S. Riha	TALK: Machine Learning Surrogate-Assisted Optimization of Cure Cycles in Multi-Material Thermoset Composite Systems PRESENTER: Alberto Mussali (Convergent Manufacturing Technologies) CO-AUTHORS: Kamyar Gordnian, Aidan Floyd, Anthony Floyd, Alastair McKee, Alireza Forghani, Yuxiang Wang, Goran Fernlund, Anoush Poursartip

	SESSION FOUR (CONT.)	SESSION FIVE (CONT.)
	LOCATION: SHRUM B1001	LOCATION: SHRUM B1009
9:40	TALK: A Machine Learning-Enabled Bayesian Inference Framework for Constituent Hydrogen Permeabilities in Polymer Composites PRESENTER: Mustafa Okumuş (University of Warwick) CO-AUTHOR: Łukasz Figiel	TALK: Roughness Descriptors Discovery Driven by the Prepeg Tapes Consolidation Process PRESENTER: Francisco Chinesta (PIMM, Arte et Métiers Institute of Technology) CO-AUTHORS: Anais Barasinski, Camilo Cruz, Sebastian Rodriguez, Jad Mounayer, Mikhael Tannous
10:00	TALK: Machine Learning-Based Multiscale Modelling of Composite Laminates for Efficient Structural Simulations PRESENTER: Carlos González (IMDEA; Universidad Politécnica de Madrid) CO-AUTHOR: Radouan Bouallala	TALK: Three-Dimensional Kinematically Enriched Homogenisation for AI-Assisted Consolidation Analysis of Discontinuous Composites PRESENTER: Maria Onoufriou (KTH Royal Institute of Technology) CO-AUTHORS: Jonathan P.-H. Belnoue, Alyn D. N. James, Malin Åkermo
	SESSION FOUR END	
10:20	Coffee Break	
	SESSION SIX: AI FOR INTELLIGENT COMPOSITES MANUFACTURING AND CONTROL CHAIRS: Nima Bakhshi (Convergent Manufacturing Technologies), Ilyass Tabiai (ÉTS Montreal)	SESSION FIVE: AI AND STATISTICAL METHODS FOR PROCESS MODELLING OF COMPOSITES (CONT.) CHAIRS: Martin Dube (ÉTS Montreal), Tomonaga Okabe (Tohoku University)
	LOCATION: SHRUM B1001	LOCATION: SHRUM B1009
10:40	TALK: Real-Time Flow-Front Monitoring and Closed-Loop Injection Control in Transparent SLA-Printed Hollow Structures PRESENTER: Heinrich Pfander (University of Stuttgart) CO-AUTHORS: Dominik Platzer, Stefan Carosella, Michael May	TALK: Bayesian Optimization of Non-Gaussian Process-Induced Deformations in Aerospace Composites PRESENTER: Kendall A. Johnson (University of Washington) CO-AUTHORS: Huilong Fu, Rowan M. Preedy, Jackson W. Scharf, Navid Zobeiry

Schedule: Day 3

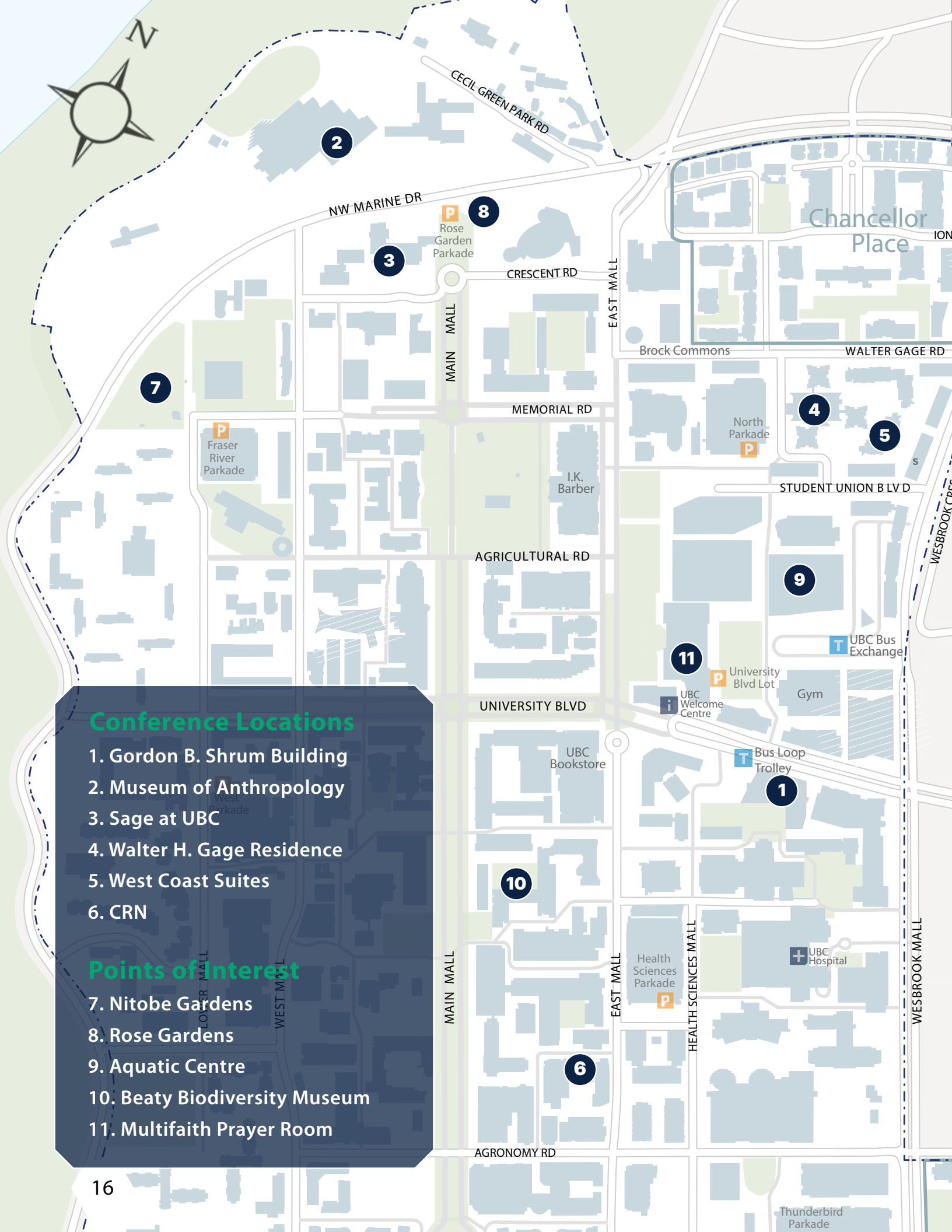
SESSION SIX (CONT.)		SESSION FIVE (CONT.)
	LOCATION: SHRUM B1001	LOCATION: SHRUM B1009
11:00	TALK: A Surrogate Model for Continuous Resistance Welding of Thermoplastic Composites PRESENTER: Marco Didone (UBC CRN) CO-AUTHORS: Stephen Atkinson, Reza Vaziri, Anoush Poursartip, Steven Roy, Julieta Barroeta Robles, Marc Palardy-Sim, Marc-André Oceau, Ali Yousefpour	TALK: Generative Material Cards for Process Simulation PRESENTER: Goran Fernlund (Convergent Manufacturing Technologies) CO-AUTHORS: Alireza Forghani, Alberto Mussali
		SESSION FIVE END
11:20	TALK: Combining Physics-based and Data-driven Methods to Optimize Sub-Melt Consolidating Thermoplastic Tapes (OATMEAL) PRESENTER: Joseph G. Kirchhoff (NASA Langley Research Center) CO-AUTHORS: Tyler B. Hudson, Wilfredo Flores, Finnian Day, Christopher J. Stelter, Roberto J. Cano	
11:40	TALK: A Reduced Order Modeling Approach to Physics-Based Simulation of Automated Fibre Placement PRESENTER: Nima Bakhshi (Convergent Manufacturing Technologies) CO-AUTHORS: Akihito Suzuki, Yukihiro Sato, Paulo Silva, Alireza Forghani, Yusei Kondo, Kento Shigekura, Kodai Shimono, Ryoji Okabe, Kana Sakon, Goran Fernlund, Anoush Poursartip	
12:00	Closing Ceremony HOSTS: Navid Zobeiry, Alireza Forghani	
12:15	Lunch	
14:00	CRN Tours	

Thank you for joining us for AComp 2026!

Notes

This image shows a full page of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. On the far left edge, there is a vertical strip of light gray color. In the top-left corner, the word "Notes" is partially visible in a dark blue font.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Conference Locations

1. Gordon B. Shrum Building
2. Museum of Anthropology
3. Sage at UBC
4. Walter H. Gage Residence
5. West Coast Suites
6. CRN

Points of Interest

7. Nitobe Gardens
8. Rose Gardens
9. Aquatic Centre
10. Beaty Biodiversity Museum
11. Multifaith Prayer Room

Plenary Speakers



Dr. Steven L. Brunton

Dr. Steven L. Brunton is a Professor of Mechanical Engineering at the University of Washington. He is also Adjunct Professor of Applied Mathematics, Aeronautics and astronautics, and Computer science, and he is also a Data Science Fellow at the eScience Institute. He is Director of the AI Center for Dynamics and Control (ACDC) at UW and is Director for the NSF AI Institute in Dynamic Systems. Steve received the B.S. in mathematics from Caltech in 2006 and the Ph.D. in mechanical and aerospace engineering from Princeton in 2012. His research combines machine learning with dynamical systems to model and control systems in fluid dynamics, biolocomotion, optics, energy systems, and manufacturing. He received the Army and AirForce Young Investigator Program (YIP) awards and the Presidential Early Career Award for Scientists and Engineers (PECASE). Steve is also passionate about teaching math to engineers as co-author of four textbooks and through his popular YouTube channel, under the moniker "eigensteve".



Dr. Carla Reynolds

Dr. Carla Reynolds is a Senior Technical Fellow of Digital Materials & Manufacturing Systems within the Materials, Processes, and Physics (MP&P) function at Boeing. She sets the technical strategy and direction for digital capabilities across MP&P, leading research and the strategic vision for Boeing's Manufacturing Digital Ecosystem. She earned a Ph.D. in Physical Chemistry from the University of Colorado Boulder and a Bachelor's degree in Chemistry from Centre College. Dr. Reynolds's work sits at the intersection of software development, data analytics, manufacturing, and materials science, and she has been recognized by the St. Louis chapter of the Academy of Science and by the National Academy of Engineering for her innovation and contributions to the field.

Plenary Speakers



Dr. Pavana Prabhakar

Dr. Pavana Prabhakar is the Charles G. Salmon Associate Professor in Mechanical Engineering and Civil and Environmental Engineering at the University of Wisconsin-Madison, where she leads the Manufacturing and Mechanics Lab (MaMeL). She received her PhD in Aerospace Engineering from the University of Michigan, Ann Arbor, in 2013, an MS in Civil and Environmental Engineering from the University of California, Berkeley in 2007, and a BTech in Civil Engineering from the National Institute of Technology Karnataka, India. Her research interests are in mechanics and advanced manufacturing of architected composite materials, with an emphasis on damage and failure in multi-physics environments. Prabhakar has received numerous awards, including a Fulbright U.S. Scholarship, NSF CAREER Award, the ONR Young Investigator Program (ONR-YIP) Award, and the AFOSR Young Investigator Program (AFOSR-YIP) Award. She also received the 2019 American Society for Composites Young Composites Researcher Award. She is an Associate Editor for Composites Part B: Engineering and serves on the Editorial Board of Composites Science and Technology journals. For more information, see the Prabhakar Research Group website.



Dr. Anoush Poursartip

Dr. Anoush Poursartip is a UBC Materials Engineering Professor, where he leads the Boeing and Toray funded Composites Research Network, focused on digitalization research as the judicious integration of physics-based simulation, ML/AI, statistics, sensors, and automation, in a coherent manner across the lifecycle of products. Also, he is Director of Research at Convergent Manufacturing Technologies, which provides widely accepted and used digital simulation and instrumentation tools, increasingly enhanced by AI, to fuse data and simulation for better decision making in process design and production. Finally, he is Co-Director of the Composites Knowledge Network, which provides digital knowledge and practice resources, increasingly accessible using AI tools, for lifelong applied composites learning. Poursartip is Fellow of SAMPE, ICCM, CACSMA, and the Canadian Academy of Engineering.

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Dr. Felix Nguyen, LMCO, USA
Dr. Sung Park, NGC, USA
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