

MONDAY, APRIL 22

1100 – 1730 **REGISTRATION OPEN**
GRANBY BALLROOM FOYER

1230 – 1245 **MODSIM WORLD 2019 WELCOME AND OPENING REMARKS**
GRANBY BALLROOM DE

Welcome and Opening Remarks

Mr. Marco Estrada

Integrated Digital Shipbuilding, Change Management and Communications, Newport News Shipbuilding
MODSIM World 2019 Conference Chair

Introduction of Congressional Keynote Speaker

RADM James A. Robb, USN (Ret)

President, National Training & Simulation Association

1245 – 1300 **CONGRESSIONAL KEYNOTE ADDRESS**
GRANBY BALLROOM DE

Congressman Bobby Scott

VA-03

1300 – 1330 **INTRODUCTION OF INDUSTRY KEYNOTE SPEAKER**
GRANBY BALLROOM DE

Mr. Marco Estrada

Integrated Digital Shipbuilding, Change Management and Communications, Newport News Shipbuilding
MODSIM World 2019 Conference Chair

Industry Keynote Address

Mr. Brian Fields

VP of Business Transformation, Newport News Shipbuilding

1330 – 1430 **SPECIAL EVENT: SENIOR MILITARY PANEL**
GRANBY BALLROOM DE

The theme for the Senior Military panel is “Training and Readiness in the Digital Age - how is the digital transformation affecting the way modern military trains.” The panel will aim to provide understanding of the challenges our military faces today to maintain readiness in a continuously changing digital world.

RADM James A. Robb, USN (Ret)

President, National Training & Simulation Association
Moderator

CAPT Timothy M. Hill, USN

Commanding Officer, Naval Air Warfare Center Training Systems Division (NAWCTSD)

COL Lawrence Mullany, USA

Environment Operations Division Chief, Joint Staff J7 Deputy Directorate for Joint Training

Col Robert Epstein, USAF

Commander, Air Force Agency for Modeling and Simulation (AFAMS)

AGENDA | MONDAY, APRIL 22

1400 – 1900 **EXHIBIT HALL AND INNOVATION CORNER HOURS** GRANBY BALLROOM FOYER

Innovation Corner: Extending Medical Training Beyond Reality

The Innovation Corner is dedicated to demonstrating technologies that are pushing the envelope. We're packing VR, Haptics and Genetic Engineering into the Innovation Corner for 2019. Stop by, check out the demos and chat with Innovation Panel speakers at this unique event.

Demonstrations:

- **Quantified Design Solutions:** Real-Time facial animation, Scenario Design
- **JANUS Research:** Haptics, Scenario Design
- **Plas.md:** Real-Time motion capture, 3D Modeling, Scenario Design
- **ICF:** Subject Matter Expertise, Scenario Design

1430 – 1500 **NETWORKING BREAK AND DEDICATED EXHIBIT TIME** GRANBY BALLROOM FOYER

1500 – 1630 **SPECIAL EVENT: "THE SIMULATION CENTURY" – THE BIG LEAP FROM BIG DATA TO IMMERSIVE INTELLIGENCE** GRANBY BALLROOM DE

This is our seventh annual session to address the growing issue of managing the human/machine interface as we hurtle towards the Singularity. We will continue our discussion of how to achieve fluency with smarter balance between humans and machines to optimize outcomes. The Simulation Century Panel presentations this year will focus on technologies that can easily be applied to provide 10x returns on investment in less than twelve months! Don't miss this session for ideas you can implement this year with high multiple returns on investment.

Mr. Richard Boyd

"10x ROI Machine Learning Ideas to Implement this Year"

CEO, Tanjo, Inc.
Moderator

Mr. Troy Knight

"The Future of Learning: Advanced Technologies and Behavioral Nudges thru Gaming"

Founder & Chief Executive Officer, BLDG-25

Ms. Simona Georgescu

"Harnessing Simulation to Better Equip Manufacturers in an Evolving B2B World"

Founder & President, Adduco Communication

Mr. Allen Badeau

"Robotic Process Automation"

CTO, NCI Inc

1630 – 1730

SPECIAL EVENT: “A PAIR OF ACES” – YOUR DATA IN A BIG DATA SOCIETY GRANBY BALLROOM DE

In this second annual session, we will continue discussing the role of data in society. Is it for the people or simply of the people? A duality is at play - people share personal data to improve their healthcare and business transactions, yet there is growing concern in how the “ruling class” has performed in deploying increasingly sophisticated data science techniques to use their data. Our discussion focuses on data and trending data science techniques.

Join in on the discussion with your mobile device as our panelists provide insights on the use of personal data in a big data world and how striking a reasonable balance involves both people’s rights and responsibilities.

Mr. Jay Gendron
Data Scientist, USAA
Moderator

Dr. Eric Weisel
Executive Director, VMASC
Moderator

Dr. Justin Brunelle
Principal Researcher, The MITRE Corporation

Dr. Ralitsa Maduro
Quality Research Institute, Sentara Healthcare

Dr. Aaron Glassman
Chair, Department of Technology Management,
Embry-Riddle Aeronautical University -Worldwide

Dr. Jaclyn Simpkins
Instructor, EVMS-Sentara HADSI

Ms. Lauren Green, MPH
Clinical Data Specialist, EVMS-Sentara HADSI

1730 – 1900

OPENING NETWORKING EVENT GRANBY BALLROOM FOYER

Sponsored by: VMASC Industry Association

MODSIM World opening reception, a networking event on the opening night of the event that will include industry, academia and government attendees involved in the modeling and simulation community. This standing reception will be heavy appetizers and beverages served at various stations throughout the lobby of the Hilton, participants will have the chance to network and visit exhibitor tables to discover the latest in simulation technology.

Welcome Remarks

Mr. Marco Estrada
Integrated Digital Shipbuilding, Change Management and
Communications, Newport News Shipbuilding
MODSIM World 2019 Conference Chair

Mr. Rob Grimes
General Dynamics Information Technology
VMASC Industry Association Co-Chair

TUESDAY, APRIL 23

0700 – 1730 **REGISTRATION OPEN**
GRANBY BALLROOM FOYER

0745 – 0845 **CONTINENTAL BREAKFAST**
GRANBY BALLROOM FOYER

0845 – 0900 **DAY TWO WELCOME AND OPENING REMARKS**
GRANBY BALLROOM DE

Opening Remarks

Mr. David Jones
President, Quantified Design Solutions
MODSIM World 2020 Conference Chair

Introduction of Government Keynote Speaker

RADM James A. Robb, USN (Ret)
President, National Training & Simulation Association

0900 – 0930 **GOVERNMENT KEYNOTE SPEAKER**
GRANBY BALLROOM DE

Government Keynote Address

Dr. Sae Schatz
Director, ADL Initiative

0930 – 1000 **SPECIAL EVENT: INTERNATIONAL PERSPECTIVE – THE STORY OF FINLAND'S DIGITAL TRANSFORMATION**
GRANBY BALLROOM DE

Join us, as Finland's Executive Director for Digital Transformation of Finnish Industries, Mr. Pekka Sivonen, an accomplished global leader in Digital Transformation shares Finland's journey in successfully implementing a nationwide strategy and structure to become one of the world's leaders in digital infrastructures/economy enabling all key vertical market segments. Pekka will share Finland's Digital Transformation Strategy, already a success story and also discuss what the future holds for Finland's Digital Strategy including collaboration opportunities.

Mr. Pekka Sivonen
Executive Director, Digital Transformation of Finnish Industries Ecosystems, Business Finland

1000 – 1730 **EXHIBIT HALL AND INNOVATION CORNER HOURS**
GRANBY BALLROOM FOYER

1000 – 1030 **NETWORKING BREAK AND DEDICATED EXHIBIT TIME**
GRANBY BALLROOM FOYER

1030 – 1200 **SPECIAL EVENT: DEFENSE AND HOMELAND SECURITY PANEL – THE DISRUPTION OF CONVENTIONS IN DEFENSE AND HOMELAND SECURITY BY MODELING AND SIMULATION**
GRANBY BALLROOM DE

The integration of modeling and simulation into defense and homeland security will fundamentally change how we plan, train, prepare and perform our stated missions. It also involves a cultural change that will require us to continually challenge the status quo and experiment often in order to optimize our mission effectiveness. This might mean walking away from long-standing processes and beliefs in favor of practices that are still being defined. This panel will explore which conventions need to change, emerging new practices, and the benefits to Defense and Homeland Security.

Mr. Chris Davidson

Lieutenant Commander, RAN, Naval Surface Warfare Center Dahlgren Division - Dam Neck Activity
Moderator

Dr. Syed Mohammad

Director, Modeling and Simulation Technology Center, Department of Homeland Security Science and Technology Directorate

Mr. Wayne Buck

Modelling & Simulation Specialist, NATO Capability Development Division of Allied Command Transformation

Dr. Eric Weisel

Executive Director, VMASC

Mr. David Shuttleworth

Research, Development, and Acquisition Community Lead, Navy Modeling and Simulation Office

1200 – 1300 **LUNCH AND DEDICATED EXHIBIT TIME**
GRANBY BALLROOM ABC AND GRANBY BALLROOM FOYER

1300 – 1500 **PAPER SESSION I**

Analytics and Decision-Making Track

FUSION

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|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1300 – 1330 | <p>Quantum Computing: Evaluating Potential Quantification of Projective Psychological Test Scoring</p> <p>Dr. Mark Davis
Wood Duck Research</p> |
| 1330 – 1400 | <p>Leveraging IIoT for Machine Self-Healing While the Pool of Experienced Maintenance Mechanics Slowly Evaporates</p> <p>Mr. Chris Lang
Old Dominion University</p> |
| 1400 – 1430 | <p>A Tabu Search Heuristic for a Mixed Strength Sensor Location Problem</p> <p>Dr. Rex Kincaid
College of William and Mary</p> |
| 1430 – 1500 | <p>Avoiding Big Data Overload in an Adaptive Training Use Case</p> <p>Dr. Brent Fegley
Aptima, Inc.</p> <p style="text-align: right;">Dr. Alan Carlin
Aptima, Inc.</p> |

AGENDA | TUESDAY, APRIL 23

Cross Reality Track IMAGINATION

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|-------------|-------------------------------------------------------------------------------------------------------------------------------|
| 1300 – 1330 | The Past Present and Future of XR for Space Exploration
Mr. Joel Ryan
Big Timber Games, SAIC |
| 1330 – 1400 | Augmented Reality for Training and Operational Support Solutions
Ms. Claire Hughes
Design Interactive Inc. |
| 1400 – 1430 | Photogrammetry in 3D Content Development
Mr. Joel Ryan
Big Timber Games, SAIC |
| 1430 – 1500 | A Mixed Reality Platform for Enhanced Military Training
Mr. Craig Clark
Kratos Technology and Training Solutions |

Science and Engineering Track ENERGY 2

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|-------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1300 – 1330 | Test and Evaluation of Autonomous Vehicles using Simulated Environments
Mr. Thomas Laverghetta
Old Dominion University |
| 1330 – 1400 | Objective Metrics for Evaluating Flight Training Simulators
Mr. Ahmad Momani
Binghamton University |
| 1400 – 1430 | Monte Carlo Simulation of Hedonic Games
Dr. Andrew Collins
Old Dominion University |

Training and Education Track ENERGY 1

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|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1300 – 1330 | Considerations for Training Evaluations of Emerging Technologies
Dr. Julian Abich, IV
Quantum Improvements Consulting |
| 1330 – 1400 | New Paradigms Call for New Evaluation Methods: Moving Beyond Kirkpatrick
Ms. Lara Bove
SAIC |
| 1400 – 1430 | Improving Workforce Development Initiatives using Augmented Reality Technology
Ms. Mia Joe
Newport News Shipbuilding |
| 1430 – 1500 | Advancing Telemedicine through Medical Simulation in Emergency Medicine
Dr. Jessica Schoen
Mayo Clinic Health System, Albert Lea and Austin |

1500 – 1530 **NETWORKING BREAK AND DEDICATED EXHIBIT TIME**
GRANBY BALLROOM FOYER

1530 – 1730 **PAPER SESSION II**

Analytics and Decision-Making Track FUSION

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| 1530 – 1600 | Word Has It: Text Analytics for Topic Modeling of MODSIM Track Papers
Mr. Jay Gendon
USAA |
| 1600 – 1630 | Using AI and Natural Language Generation to Automate Pharmaceutical Clinical Study Reports
Mr. Jeffery McCrindle
Yseop |
| 1630 – 1700 | Building a Machine Learning Classification Pipeline for Predicting Navy Reserve Mobilization Cancellations
Mr. Andrew Turscak
Booz Allen Hamilton
Mr. Mark Moreno
CNRFC
Dr. Robert Milletich
Booz Allen Hamilton |
| 1700 – 1730 | Understanding the Prevalence of Bidirectional Architecture in Language Models
Mr. Ryan Baxley
Franciscan University of Steubenville |

Cross Reality Track IMAGINATION

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| 1530 – 1730 | Panel: Measuring and Optimizing the Impact of XR Experiences - Impact Results and Lessons Learned
Mr. Vance Souders
Plas.md
Mr. Kishan Shetty
JANUS Research
Mr. David Jones
Quantified Design Solutions
Mr. Tyler Gates
Brightline Interactive |
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AGENDA | TUESDAY, APRIL 23

Science and Engineering Track ENERGY 2

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|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1530 – 1600 | A Reusable Simulation Environment for Digital Engineering
Mr. George Gilman
NSWC PCD |
| 1600 – 1630 | Explorative Visualization of Volume Flow Data via Slice Textures
Mr. Ahmet Saglam
Old Dominion University |
| 1630 – 1700 | Human Subjects Experiment Data Collection for Validating an Agent-based Model
Dr. Andrew Collins
Old Dominion University |
| 1700 – 1730 | Development of BIM (Building Information Modeling) concept applied to projects of Substations Integrated with the Geographic Intelligence System (GIS)
Dr. Gerson Flavio Mendes De Lima
Federal University of Uberlandia |

Training and Education Track ENERGY 1

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| 1530 – 1600 | Enhancements for Homeschooling and ADL: Virtual Humans, Technologies and Insights
Dr. Mark Davis
Wood Duck Research |
| 1600 – 1630 | Pedagogical Tools to Enhance Communication Skills: Interactive Virtual Tutorial Environments
CDR Dan Davis, USN (Ret)
University of Southern California |
| 1630 – 1700 | Monitoring Engagement and Motivation Across Learning Environments
Dr. Benjamin Bell
Eduworks Corporation |
| 1700 – 1730 | Enabling Enactive Learning to Implement Modeling, Simulation and Training Technologies
Mr. Nicholas Armendariz
University of Central Florida |

1730 – 1930 **OFFSITE NETWORKING EVENT**
BLUE MOON RESTAURANT, WATERSIDE DISTRICT

*Pre-registration and pre-payment are required for this event

Sponsored by: Unreal Engine

Welcome Remarks

Mr. Sébastien Lozé
Unreal Engine

WEDNESDAY, APRIL 24

0700 – 1730 **REGISTRATION OPEN**
GRANBY BALLROOM FOYER

0730 – 0830 **CONTINENTAL BREAKFAST**
GRANBY BALLROOM FOYER

0800 – 0815 **DAY THREE OPENING REMARKS**
GRANBY BALLROOM DE

Opening Remarks

Mr. Matt Spruill

Chairman, Virginia Modeling and Simulation Partnership (VMSP)

Introduction of Senior Leader Panel

Mr. Joe Bricio

Senior S&T Engineer, NSWC Dahlgren

0815 – 1000 **SPECIAL EVENT: SENIOR LEADER PANEL – ENABLERS FOR DIGITAL TRANSFORMATION**
GRANBY BALLROOM DE

Our ability to successfully execute an organization's digital transformation is closely related to how to embrace innovation. Innovation creates uncertainty. Uncertainty creates a human and organizational need to seek more knowledge and information about the innovation and understanding the opportunities and risks involved embracing innovation. Senior Leaders from Government and Industry will share their challenges, opportunities, and principles related to embracing modeling and simulation as an enabler for an organization's digital transformation.

RADM James A. Robb, USN (Ret)

President, National Training & Simulation Association
Moderator

Mr. Bob Armstrong

Eastern Virginia Medical School (EVMS))

Dr. Roger Barga

General Manager and Director of Development, Amazon Web Services

Mr. Sanjay Sardar

Vice President of Operations, Solutions and Technology Group, SAIC

Dr. Marty Irvine

Technical Operations Manager, Combat Direction Systems Activity - Dam Neck

Dr. James Moreland

OUSD A&S Director, Maritime Interdiction

Mr. Pekka Sivonen

Executive Director, Digital Transformation of Finnish Industries Ecosystems, Business Finland

0930 – 1900 **EXHIBIT HALL AND INNOVATION CORNER HOURS**
GRANBY BALLROOM FOYER

1000 – 1030 **NETWORKING BREAK AND DEDICATED EXHIBIT TIME**
GRANBY BALLROOM FOYER

AGENDA | WEDNESDAY, APRIL 24

1030 – 1200 PAPER SESSION III

Analytics and Decision-Making Track

FUSION

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| 1030 – 1100 | The Power of Training Simulations to Support AGILE Acquisition Testing and Experimentation of Advance Analytic Algorithms and Artificial Intelligence
Mr. Mike Saluto
Operational Test Command (OTC) |
| 1100 – 1130 | The Application of Data Farming to Hybrid Warfare Scenarios for Wargaming
Dr. Gary Horne
MCR Global |
| 1130 – 1200 | Defining Decision Types in a Combating Weapons of Mass Destruction Simulation
Dr. Grace Teo
University of Central Florida's Institute for Simulation and Training |

Cross Reality Track

IMAGINATION

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| 1030 – 1100 | Pros and Cons of AR/VR in Healthcare
Mr. Bob Armstrong
SCSIL (Sentara Center for Simulation Immersive Learning) |
| 1100 – 1130 | The Immersive Ecosystem: The Answer to Readiness
Mr. Tyler Gates
Brightline Interactive |
| 1130 – 1200 | Simulation in XR: Enabling Training Mode in The Human Brain
Mr. Sébastien Lozé
Unreal Engine |

Science and Engineering Track

ENERGY 2

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| 1030 – 1100 | Simulation for the Common Man: How do We Make M&S Accessible?
Mr. Ying Thavipoke
Old Dominion University | |
| 1100 – 1130 | Making the Case for Inter-industry/Inter-disciplinary MS&V Collaboration; Cooperation for Mutual Benefit
Mr. Rick Severinghaus
National Modeling & Simulation Coalition | Mr. Bob Armstrong
Eastern Virginia Medical School (EVMS) |
| 1130 – 1200 | Integration of Technological Changes into long-term Planning: An Agent Based Modeling Approach
Mr. Miguel Toro Jarrin
Old Dominion University | |

Training and Education Track ENERGY 1

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| 1030 – 1100 | <p>Democratization of Immersive Virtual Reality (VR) Content Creation Through a VR Authoring Tool: The Evolution of Training</p> <p>Dr. Teresa Riech
Jump Simulation and Education</p> <p>Dr. Matthew Bramlet
Jump Simulation and Education</p> |
| 1100 – 1130 | <p>Simulation Based Training’s Incorporation of Machine Learning</p> <p>Dr. Ivar Oswald
Alion Science and Technology Corporation</p> <p>Dr. Tim Cooley
DynamX Consulting</p> |
| 1130 – 1200 | <p>Automated Content Discovery and Learning Objective Alignment: Like MAGIC</p> <p>Dr. Benjamin Bell
Eduworks Corporation</p> |

1030 - 1200

STEM EVENT GRANBY BALLROOM FOYER

The MODSIM STEM event provides the conference a unique opportunity to contribute directly to the school experience of the youth who are just beginning to formulate their dreams for the future. During the MODSIM STEM event, approximately 100 area high school students will get the opportunity to see firsthand the world of M&S. Students will rotate through hands-on M&S demonstrations provided in the exhibit hall to see STEM in action.

1200 – 1300

LUNCH AND DEDICATED EXHIBIT TIME GRANBY BALLROOM ABC AND GRANBY BALLROOM FOYER

Scholarship Recognition

Dr. Andy Collins
Assistant Professor, Old Dominion University

RADM James A. Robb, USN (Ret)
President, National Training & Simulation Association

1300 – 1500

PAPER SESSION IV

Analytics and Decision-Making Track 1 FUSION

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| 1300 – 1330 | <p>“Predicting the Unpredictable” make crucial decisions in real time</p> <p>Mr. Nissim Titan
4Cast</p> <p>Mr. Morgan Brooke
4Cast</p> |
| 1330 – 1400 | <p>PULSEbox: A High Fidelity, Certified-Threat Scene Generator</p> <p>Mr. Peter Grossman
Systems Engineering Group, Inc.</p> <p>Mr. Julien Pierru
Systems Engineering Group, Inc.</p> |
| 1400 – 1430 | <p>Population Disease Occurrence Models Using Evolutionary Computation</p> <p>Dr. Jacob Barhak
Independent Researcher</p> |
| 1430 – 1500 | <p>Homeland Security and Emergency Management Grant Allocation Multi-objective Benefit-Cost Methodology</p> <p>Ms. Kaleen Lawsure
VMASC</p> |

AGENDA | WEDNESDAY, APRIL 24

Analytics and Decision-Making Track 2 IMAGINATION

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| 1300 – 1330 | Creating a Network Digital Twin using Full-Fidelity Virtual Hardware
COL Charles Burdick, USA (Ret)
Innovative Decisions, Inc. |
| 1330 – 1400 | An Agent-Based Model Approach to Understanding Complexity in International Relations
Mr. Lowell Wilson
George Mason University |
| 1400 – 1430 | Regional Collaboration for Economic Growth; 'Maximizing Hampton Roads Business Assets'
Mr. Rick Severinghaus
National Modeling & Simulation Coalition |
| 1430 – 1500 | Industrial System Process Modeling Using Agent Based Modeling & Simulation
Dr. Yasemin Çetin
METU-TAF MODSIMMER |

Science and Engineering Track ENERGY 2

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| 1300 – 1500 | Workshop: Development of a Technological Roadmap for Modeling and Simulation
Mr. Miguel Toro Jarrin
Old Dominion University | Dr. Andrew Collins
Old Dominion University |
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Training and Education Track ENERGY 1

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| 1300 – 1400 | Featured Speaker: Shedding light on Brain Training using Functional Optical Brain Monitoring
Dr. Hasan Ayaz
Drexel University |
| 1400 – 1430 | Using fNIRS Technology to Measure Emotional Regulation in Simulation Training
Ms. Nina Rothstein
Drexel University |
| 1430 – 1500 | Neuroadaptive Training for Flight Simulator Skill Improvement
Mr. Jesse Mark
Drexel University |

1500 – 1530

NETWORKING BREAK AND DEDICATED EXHIBIT TIME
GRANBY BALLROOM FOYER

1530 – 1700 **SPECIAL EVENT: ENGAGING THE FUTURE OF MODELING & SIMULATION**
GRANBY BALLROOM DE

The Engaging the Future of Modeling and Simulation Session is devoted exclusively to research findings presented by undergraduate and/or graduate students and will consist of informal discussions between presenters and facilitate the exchange of current, research-based information pertaining to modeling and simulation. This session provides a more intimate forum for exchange than do regular paper presentations. It also provides an opportunity for students at universities and institutions to gain public speaking experience in a professional environment and presents a forum in which existing professionals may meet their rising peers. Best papers and presentations from the ODU M&S student capstone conference will be presented.

1700 – 1900 **CLOSING NETWORKING EVENT**
GRANBY BALLROOM FOYER

Sponsored by: VMASC – MSVE & VMASC

MODSIM closing reception, a networking event on the final night of MODSIM that will bring together attendees after a week of collaboration, to discuss lessons learned and the way forward. This standing reception will be light appetizers and beverages served at various stations throughout the lobby of the Hilton, participants will have the chance to network and visit exhibitor tables to discover the latest in simulation technology. Alumni of the ODU MSVE Department are invited to attend.

Welcome Remarks

Dr. Roland Mielke
VMASC – MSVE

Ms. Tracy Gregorio
President, G2 Ops, Inc.
VMASC Industry Association Board Member