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WELCOME ATTENDEES OF I/ITSEC 2024!

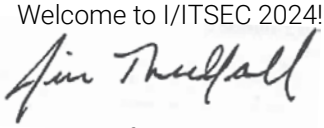
Welcome to I/ITSEC 2024, the World's largest modeling, simulation, training, and education conference! I would like to thank this year's lead services, the Naval Services, for their collaborative approach in assembling this year's conference agenda together. The program has been evolving for over a year now, and I hope you will have a chance to thank those in the leadership for all the time and energy they put into building this very robust agenda. Our Program Chair, Mr. Fred Fleury, and I have coordinated this past year with the lead service executives, Captain Tim James (USN) and Colonel Marcus Reynolds, (USMC) and their respective principals, Mr. Craig Snoderly (USN) and Ms. Carol Byers-Bendle (USMC). Their efforts, along with the Conference Sponsor, the National Training and Simulation Association (NTSA), led by VADM Sean Buck, USN, (Ret.), NTSA President, and NTSA Senior Vice President, Ms. Debbie Langelier, are the driving forces behind the incredible content that will be presented during this year's conference.

In addition to the Naval Services and NTSA's individual contributions, there are many others to thank among the conference leadership this year. Our service executives, Col Carlos Quinones (USAF), Colonel Corey Klopstein (USSF), Brigadier General Christine Beeler (USA), and Mr. Gregory Knapp (OSD), along with their respective service principals, Mr. Heath Morton (USAF), Ms. Sandra Veautour (USSF), Ms. Debra Dawson (USA), and Mr. Frederick Engle (OSD), have spent countless hours coordinating and collaborating to bring you expert panels, insightful presentations/demonstrations, and policymaker perspectives. Along with the conference leadership, there are an additional 300+ volunteers who bring their expertise from government, industry, and academia to diligently review the merits of the paper, tutorial, and professional development workshop submissions and ultimately select those presented at this year's conference. The conference will also provide Special Event sessions that enable Congressional members, Senior Military members, and Industry/Academia Experts to provide future visions, strategies, expectations, and technologies that will shape the future of modeling, simulation, and training into 2035. These same events will be supported by the Next Big Thing that also looks at how these future concepts can be turned into reality.

The theme for I/ITSEC 2024 is *Assuring Deterrence through Integrated Training and Readiness – The Need is Now!* This theme resonates not only throughout our military structure and operations, but through our allies and partners who, like us, are increasingly facing great challenges from not only our typical adversaries, but splinter terrorist groups. The challenge to our national defense industrial base and what will be on display during the conference shows how we can collaborate and bring innovative as well as responsive technology solutions to provide our forces, and those of our allies, the strategic advantage to meet these threats.

For nearly 60 years the modeling, simulation, and training professionals that gather annually for I/ITSEC have a common goal and focus: to increase the effectiveness of modeling, simulation, training, and education in the world's most complex environments. Whether the end users of these solutions are for military members, first responders, healthcare professionals, or the many other highly critical fields of operation, the conference has remained the premier showcase within our diverse, yet focused, community. I look forward to joining you this week as we collaborate, learn, and network together at I/ITSEC 2024!

Welcome to I/ITSEC 2024!



Jim Threlfall
I/ITSEC 2024 Conference Chair

WELCOME ATTENDEES OF I/ITSEC 2024!

Welcome to I/ITSEC 2024! We have planned an exciting and informative five-day conference for you. This year's lead services, the Naval Services (U.S. Navy and Marine Corps), their Service Executives and Principals, in collaboration with NTSA, and the 300+ volunteers from industry, government, and academia have worked hard to prepare this great program. Alongside these volunteers, Jim Threlfall, our I/ITSEC 2024 Conference Chair and I have created an agenda with 157 Technical Papers, 55 Special Events, 33 Tutorials, and 9 Professional Development Workshops. We continue to offer our Signature Events including the Congressional panel, Pentagon leadership panels with international partner discussions, the Next Big Thing, Black Swan, I/ITSEC Fellows, and our outreach-focused events such as our EcosySTEM of Learning and I/ITSEC's own Serious Game Showcase & Challenge.

Our comprehensive program is built around this year's theme, *Assuring Deterrence through Integrated Training and Readiness – The Need is Now!* We can achieve this deterrence by sharpening the swords and tools of our Warfighters and first responders. Our program does this by emphasizing more immersive XR training environments, AI-enhanced decision-making, and digital-twin engineering such that our military services and international partners are well-positioned to achieve greater readiness to deter this aggression.

Suppose you are new to I/ITSEC. In that case, I encourage you to start with some Tutorials on Monday, listen to the opening ceremonies and leadership on Tuesday, and take in some interesting papers and Special Events. Don't miss the over 190,000 sq. ft. exhibit floor with over 400 organizations showing their latest technologies and training systems. Finish the week on Friday with our Professional Development Workshops tailored to dive deep into modeling and simulation (M&S) technologies and protocols. As you examine our extensive program and plan your week, I'm sure you will see why I/ITSEC 2024 is the world's largest modeling and simulation conference.

With so much to choose from, I highly encourage all attendees, newbies, and long-time friends to download the I/ITSEC 2024 app to your phone. Our role-based persona schedule builder will help you plan your week, set reminders, give needed feedback, and allow you to find that vendor on the show floor who can meet your needs.

Please support our charity events that will benefit the Tunnel to Towers Foundation, which builds homes and assists our first responders, Warfighters, and Gold Star families. These events are The Earle L. Denton Memorial Golf Tournament on Sunday, 1 December, or Monday, 2 December, and our 5K Run/Walk/Roll which will start at 0530 on Wednesday, 4 December.

I firmly believe that we have created a world-class event where all attendees will find a wealth of knowledge, value, and networking opportunities. I look forward to welcoming you to I/ITSEC 2024.

Sincerely,

Fred Fleury
I/ITSEC 2024 Program Chair

GOVERNMENT KEYNOTE

HONORABLE CARLOS DEL TORO
Secretary of the Navy

THE HONORABLE CARLOS DEL TORO was sworn in as the 78th Secretary of the Navy August 9, 2021. As Secretary, he is responsible for over 1 million Sailors, Marines, reservists, and civilian personnel and an annual budget exceeding $255 billion. His priorities include securing the training and equipment successful naval operations demand and addressing the most pressing challenges confronting the U.S. Navy and Marine Corps by strengthening maritime dominance, building a culture of warfighting excellence, and enhancing strategic partnerships.

Born in Havana, Cuba, Del Toro immigrated to the U.S. with his family as refugees in 1962. Raised in the Hell's Kitchen neighborhood of New York City, he attended public schools and received an appointment to the United States Naval Academy, where he earned a Bachelor of Science Degree in Electrical Engineering. Secretary Del Toro was commissioned as a Surface Warfare Officer upon his graduation in 1983.

His 22-year naval career included a series of critical appointments and numerous tours of duty at sea – including First Commanding Officer of the guided missile destroyer USS Bulkeley (DDG 84); Senior Executive Assistant to the Director for Program Analysis and Evaluation in the Office of the Secretary of Defense; and Special Assistant to the Director and Deputy Director of the Office of Management and Budget – where he helped manage the budgets of DOD, the U.S. Department of State, the Central Intelligence Agency, the Defense Intelligence Agency, the National Reconnaissance Office, and the Peace Corps.

After retiring at the rank of Commander, Secretary Del Toro founded SBG Technology Solutions, Inc. in 2004. As its CEO and President, he supported defense programs across a host of immediate and long-term Department of Navy issue areas, including shipbuilding, AI, cybersecurity, acquisition programs, space systems, health, and training.

He holds a Masters in National Security Studies from the Naval War College, a Masters in Space Systems Engineering from the Naval Postgraduate School, and a Masters in Legislative Affairs from George Washington University.

Secretary Del Toro and his wife have four children and three granddaughters.

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NAVAL SERVICES FIRESIDE CHAT

VICE ADMIRAL SEAN S. BUCK, USN (RET.)
President, National Training and Simulation Association

MODERATOR

VICE ADMIRAL SEAN S. BUCK, USN (RET.) is the President of the National Training and Simulation Association (NTSA). VADM Buck is a seasoned leader with over 40 years of experience in commissioned military service and higher education. He served as the 63rd Superintendent of the U.S. Naval Academy, where he led the institution through significant challenges, including the COVID-19 pandemic, ensuring continuous operations in support of its critical mission of developing the leaders of tomorrow for our nation. Throughout his career, he commanded at many levels, including as Commander of U.S. Fourth Fleet & Naval Forces Southern Command, where he was responsible for key security and humanitarian operations across the Americas. In his current role, VADM Buck leads NTSA in advancing the training, modeling, and simulation industry, representing and advocating for its membership that drives innovation in defense and technology sectors. His leadership extends to serving on advisory boards for Academy Securities, Synergist Technology, and First Command Financial Services, and contributing to the development of the U.S. Naval Academy's athletic programs. VADM Buck holds a Master's in Security Policy Studies from The George Washington University and has completed executive education at Harvard and MIT. His commitment to excellence continues to shape the future of training and simulation.

ADMIRAL JAMES W. KILBY, USN
Vice Chief of Naval Operations

UNITED STATES NAVY

ADM. JAMES W. KILBY is a native of Pound Ridge, New York, and a 1986 graduate of the United States Naval Academy. Kilby's sea tours include USS Sampson (DDG 10), USS Philippine Sea (CG 58) and two tours aboard USS San Jacinto (CG 56). He commanded USS Russell (DDG 59) where he received the Vice Adm. James B. Stockdale Award for inspirational leadership. His major command was aboard USS Monterey (CG 61) and included its maiden Ballistic Missile Defense (BMD) deployment in 2011. His shore tours include the Naval Postgraduate School; two tours in the Chief of Naval Operations' Surface Warfare Directorate, N96; Navy Personnel Command's Surface Warfare Division, PERS-41; and the Aegis BMD Program Office in the Missile Defense Agency. Kilby's flag assignments include Commander, Naval Surface and Mine Warfighting Development Center; Commander, Carrier Strike Group 1; director of Warfare Integration, N9I; Deputy Chief of Naval Operations for Warfighting Requirements and Capabilities, N9; Deputy Commander, U.S. Fleet Forces Command; and Commander, Task Force EIGHT ZERO. Kilby assumed the duties of Vice Chief of Naval Operations, Jan. 5, 2024.

LIEUTENANT GENERAL BENJAMIN T. WATSON, USMC
Commanding General, Training and Education Command

UNITED STATES MARINE CORPS

LIEUTENANT GENERAL WATSON graduated from Cornell University in 1991 and was commissioned through the NROTC program. After The Basic School and Infantry Officer Course, he reported to 3rd Battalion, 8th Marine Regiment, in Camp Lejeune, NC, where he served as a Platoon Commander and Executive Officer with Company K. His other operational assignments include: Commanding Officer, Weapons Company, and Operations Officer, 2nd Battalion, 6th Marines, from 1999-2002; G-3 Future Operations Planner, I Marine Expeditionary Force (Forward), from 2006-; G-3 Plans Officer, 1st Marine Division, from 2007-2008; Commanding Officer, 3rd Battalion, 1st Marines, from 2008-2011; Assistant Division Commander, 2nd Marine Division, from 2016-2017; and Commanding General (CG), Task Force Southwest in Helmand and Nimroz Provinces, Afghanistan, from January to November 2018. From 2022-2024, LtGen Watson commanded the 1st Marine Division. His service outside the operating forces includes duty as an instructor at The Basic School from 1995-1997, the Infantry Officer Course from 1997-1998, and the Expeditionary Warfare School from 2002-2005. From 2012-2013, he served in the Office of the Secretary of Defense as Senior Military Assistant to the Assistant Secretary of Defense for Asian & Pacific Security Affairs. From 2013-2014, he was assigned to the Office of the Secretary of Defense as Special Assistant to the Chief of Staff. LtGen Watson served as the Commanding Officer of Marine Barracks, Washington D.C. (8th & I), from 2014-16. From 2018-2019, he served as the CG of Marine Corps Installations East / Marine Corps Base Camp Lejeune, and from 2019-2022 as CG of the Marine Corps Warfighting Laboratory / Futures Directorate and Vice Chief of the Office of Naval Research. In August of 2024, LtGen Watson assumed duties as Commanding General, Training & Education Command.

INDUSTRY KEYNOTE

RICK SCHMIDT
President/Chief Executive Officer, Tipping Point Solutions, Inc.

RICK SCHMIDT, the 2019 Colorado SBA Small Business "Person of the Year," has forged a distinguished career as a creative visionary and a highly successful business leader. As the CEO and President of Tipping Point Solutions (TPS), Inc., Rick leads the company's strategic growth and operations, supporting instructional design, media production, and the development of cutting-edge courseware and technology.

Rick founded TPS, a Native American and Veteran-Owned enterprise, and a Service-Disabled Veteran-Owned, SBA-certified 8(a) small business, in 2011 after a distinguished 20-year career as a Naval Information Warfare Officer. Rick culminated his outstanding Navy career serving as Training Director at the Center for Information Dominance in Pensacola, Florida, where he illuminated the need for impactful, high-quality training solutions in the industry.

Over the past thirteen years, Rick has grown TPS into an award-winning, respected business with over one hundred full-time employees across its Colorado headquarters, satellite offices in Arizona and Michigan, and remote locations nationwide. Specializing in immersive, interactive video, TPS stands out in the industry for delivering engaging, results-driven training experiences.

Rick holds a Bachelor of Science degree in Computer Science, a Master of Science in Information Systems, and holds certifications in Information Systems Security (CISSP) and Radio Frequency Identification (RFID+). Rick, a proud member of the Sault Tribe of Chippewa Indians in Sault Saint Marie, Michigan. He is also involved in an SBA-approved Mentor/Protégé relationship with Chippewa Government Solutions (CGS) LLC, where he, and TPS, provides guidance to support CGS's growth and success.

In recognition of its success, TPS received the prestigious "Gold" Stevie Award as the "Veteran-Owned Business of the Year" in 2020 and was honored by the Denver Business Journal with the 2020 Small Business Award. The company's steady growth, achieved without external investment or partners, has earned it a place on the Inc. 5000 list for the past five years, with an average growth rate of over 420%, most recently ranking 581st among America's top 5000 companies. Additionally, TPS has been recognized by the VET100 as one of the top veteran-owned businesses in the country for three consecutive years.

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SENIOR LEADER PANEL

VICE ADMIRAL SEAN S. BUCK, USN (RET.)
President, National Training and Simulation Association (NTSA)

VICE ADMIRAL DANIEL L. CHEEVER, USN
Commander, Naval Air Forces/ Commander, Naval Air Force, U.S. Pacific Fleet

LIEUTENANT GENERAL BENJAMIN T. WATSON, USMC
Commanding General, Training and Education Command

THOMAS J. LAWHEAD, SES
Assistant Deputy Chief of Staff, Strategy, Integration and Requirements, U.S. Air Force

MAJOR GENERAL TIMOTHY A. SEJBA, USSF
Commander, Space Training and Readiness Command

BRIGADIER GENERAL DAVID ZINN, USA
Director of Training, Headquarters U.S. Army G-3/5/7, Former Commander 3rd Multi-Domain Task Force (MDTF)

BRIGADIER GENERAL RICKARD JOHANSSON
Commanding General 1. Division, Swedish Army

Global forces continue to be challenged by erratic budgets and complex threats. Services continue to prepare for a wide array of missions that range from disaster assistance to the return of great power competition. Additionally, Nations continue to deal with the opportunities and challenges of accelerating technology and cybersecurity. Our Senior Leader Panel will address current and future environments within the context of this year's conference theme *Assuring Deterrence through Integrated Training and Readiness – The Need is Now!*

The Senior Leader Panel will include senior representatives from U.S. Military Services, OSD, and International Allies. Following opening remarks, the audience will interact with the panel through a Q&A feature. Don't miss the opportunity to hear from national leaders on the way ahead.

TUESDAY, 3 DECEMBER • 1400 – 1445 • ROOM 330ABCD

A FIRESIDE CHAT WITH ADMIRAL CHRISTOPHER W. GRADY, VICE CHAIRMAN, JOINT CHIEFS OF STAFF

MODERATOR

VICE ADMIRAL SEAN S. BUCK, USN (RET.)
President, National Training and Simulation Association (NTSA)

SPEAKER

ADMIRAL CHRISTOPHER W. GRADY, USN
Vice Chairman,
Joint Chiefs of Staff

A native of Newport, Rhode Island, Admiral Christopher W. Grady graduated from the University of Notre Dame in 1984 and received his commission through the Naval Reserve Officers Training Corps program. Grady is also a distinguished graduate of both Georgetown University, where he participated as a fellow in Foreign Service at the Edmund A. Walsh School of Foreign Service, and the National War College.

A career Surface Warfare Officer, Grady served aboard USS Moosbrugger (DD 980) as combat information center officer and antisubmarine warfare officer. As a department head, he served as weapons control officer and combat systems officer aboard USS Princeton (CG 59). He then commanded Mine Countermeasures Rotational Crew Echo aboard USS Chief (MCM 14), and later deployed to the Arabian Gulf in command of USS Ardent (MCM 12). Grady subsequently commanded USS Cole (DDG 67), deploying as part of NATO's Standing Naval Forces Mediterranean. In command of Destroyer Squadron 22, he deployed to the Arabian Gulf as sea combat commander for the Theodore Roosevelt Carrier Strike Group in support of Operations ENDURING FREEDOM and IRAQI FREEDOM.

Ashore, Grady served in the Joint Chiefs of Staff and then as naval aide to the Chief of Naval Operations, as the assistant branch head of the Europe and Eurasia Politico-Military Affairs Branch (OPNAV N524), as executive assistant to the Navy's Chief of Legislative Affairs, as the deputy executive secretary of the National Security Council in the White House, and as the executive assistant to the Chief of Naval Operations.

As a flag officer, he first served as Director of Maritime Operations, Commander, U.S. Pacific Fleet (N2/3/5/7), then subsequently commanded Carrier Strike Group 1/Carl Vinson Carrier Strike Group, where he deployed for nearly 10 months to the Western Pacific and the Arabian Gulf conducting combat operations in support of Operation INHERENT RESOLVE. He later served as Commander, Naval Surface Force Atlantic; Commander, U.S. 6th Fleet/Commander, Naval Striking and Support Forces NATO/Deputy Commander, U.S. Naval Forces Europe and U.S. Naval Forces Africa. From May 2018 until December 2021, he served as the Commander, U.S. Fleet Forces Command, and the Naval Component Commander to both U.S. Northern Command and U.S. Strategic Command, as the Joint Force Maritime Component Commander for U.S. Strategic Command and executed Task Force Atlantic in coordination with U.S. Naval Forces Europe.

Admiral Grady was sworn-in as the twelfth Vice Chairman of the Joint Chiefs of Staff, the nation's second highest-ranking military officer, on 20 December 2021. The admiral represents the Chairman of the Joint Chiefs of Staff on the Deputies Committee of the National Security Council and chairs the Joint Requirement Oversight Council (JROC) which is responsible for reviewing and establishing acquisition priorities for major weapon systems amongst the military branches. He also co-chairs the Deputy's Management Action Group (DMAG) and the Deputy's Workforce Council (DWC) with the deputy secretary of defense to address departmental budgetary priorities and serves as the senior member of the Nuclear Weapons Council, responsible for managing the atomic stockpile and coordinating nuclear weapon-related programs and budgets.

The admiral is currently the Navy's "Old Salt", its longest-serving surface warfare officer on active duty.

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CONFERENCE LEADERSHIP

CONFERENCE CHAIR

JIM THRELFALL
Tipping Point Solutions
I/ITSEC 2024 Conference Chair

JIM THRELFALL is Vice President of Operations /Business Development at Tipping Point Solutions, Inc. Jim has more than 40 years of progressive managerial, educational, and financial experience in the fields of Organizational Performance and Human Resource Development for industry, corporations, and the U.S. Government. He worked in the areas of human resource development/performance to include: implementing and managing training systems and programs; curriculum development; instructional strategies; instructional technology; traditional through electronic-based training; gaming and immersive environments; mixed/virtual/augments reality; and research analysis. In his current role at Tipping Point Solutions, Jim is responsible for the management and support of Federal Agencies, DoD, and commercial engagements to include: assisting organizations to define learning and/or training solutions for system or product implementation; planning and resourcing the execution of the development projects; and successful integration of those training/learning solutions. Jim was also the Division Manager under the Army Capabilities Integration Center (ARCIC) "Connecting Soldiers to Digital Applications" and provided TRADOC with the first mobile device and tablet application for Patriot Missile Crew Training. This innovative training product was the Winner of the first Mobile Category for the Serious Games Showcase & Challenge in 2011. Jim has been a member of the I/ITSEC community since 2008, serving as subcommittee chair for HSE and Education, as well as chairing Special Events and Program Chair for the I/ITSEC 2022 Conference. Jim is a retired Army Field Artillery Officer and holds a Master of Science degree in Education (Training Technology) from Old Dominion University and Bachelor of Arts degree in Military Studies from Norwich University.

PROGRAM CHAIR

FRED FLEURY
4SimVision, LLC
I/ITSEC 2024 Program Chair

FRED FLEURY is the owner of 4SimVision LLC, a consulting company with a passion for helping small businesses navigate and win government contracts. He has over 39 years of experience in the management and architecture of simulation testing and computer integration projects. Mr. Fleury has supported NTSA and I/ITSEC for over 25 combined years publishing his first network simulation paper in 1992, then serving as chairperson on various subcommittees, and now in senior leadership positions. Previously with ZedaSoft, Inc., his team integrated role-player simulators and drone stations as immersive learning devices (ILD) into the USAF Academy, Multi-Domain Laboratory (MDL) for Strategic Studies. This team developed an innovative MOSA simulator container plugin system that has been awarded four U.S. patents. Other important projects include the design and development of the AFRL/Lockheed Martin Integrated Collision Avoidance System (ICAS) laboratory which led to the ground and air collision avoidance technology integration into the F-16 and now F-35 aircraft saving over 11 aircraft and 12 pilots to date. This same simulation team tested the Manned-Unmanned Teaming (MUM-T) protocol between their virtual AH-64E Apache simulator at the U.S. Army Redstone Arsenal networked to a live Gray Eagle UAS flying over the Dugway Proving Grounds. At General Dynamics and Lockheed Martin, he provided project engineering to F-16 and F-111 flight controls and AFTI/F-16 simulator testbeds. In 1993, Fred co-founded and developed an IT solutions company that was awarded the INC 500 fastest-growing companies list two years in a row. This company developed database-driven internet solutions for Consumers Digest's first product comparison tool and the first internet package tracking tool for the U.S. Postal Service (USPS). Fred received his Bachelor of Science in Engineering from Texas A&M University and a Bachelor of Science in Physics from Sam Houston State University in 1985.

CONFERENCE SPONSOR

VADM SEAN S. BUCK, USN (RET.)
President, National Training and Simulation Association

Vice Admiral Sean S. Buck, USN (Ret.) is the President of the National Training and Simulation Association (NTSA). VADM Buck is a seasoned leader with over 40 years of experience in commissioned military service and higher education. He served as the 63rd Superintendent of the U.S. Naval Academy, where he led the institution through significant challenges, including the COVID-19 pandemic, ensuring continuous operations in support of its critical mission of developing the leaders of tomorrow for our nation. Throughout his career, he commanded at many levels, including as Commander of U.S. Fourth Fleet & Naval Forces Southern Command, where he was responsible for key security and humanitarian operations across the Americas. In his current role, VADM Buck leads NTSA in advancing the training, modeling, and simulation industry, representing and advocating for its membership that drives innovation in defense and technology sectors. His leadership extends to serving on advisory boards for Academy Securities, Synergist Technology, and First Command Financial Services, and contributing to the development of the U.S. Naval Academy's athletic programs. VADM Buck holds a Master's in Security Policy Studies from The George Washington University and has completed executive education at Harvard and MIT. His commitment to excellence continues to shape the future of training and simulation.

HON. DAVID L. NORQUIST
President and Chief Executive Officer, National Defense Industrial Association

The Hon. David L. Norquist is the President and Chief Executive Officer of the National Defense Industrial Association (NDIA). He has over 30 years of public and private sector experience in national security and federal financial management. This includes serving in three Senate confirmed positions: the Chief Financial Officer (CFO) of the Department of Homeland Security, the Under Secretary of Defense Comptroller/CFO and most recently the 34th Deputy Secretary of Defense. He began his career as a civil servant, supporting Army intelligence as a program/budget analyst with assignments on the Army staff, a major command, a defense agency, and at an overseas field site. Following his time with the Army, Mr. Norquist served for six years with the House Appropriations Subcommittee on Defense as a professional staff member. He later served for eight years as partner with Kearney and Company, a certified public accounting firm focused exclusively on the federal government. Mr. Norquist is a graduate of the University of Michigan, where he received a Bachelor of Arts in Political Science and a Master's Degree in Public Policy. He also holds a Master's Degree in National Security Studies from Georgetown University.

INTERSERVICE EXECUTIVES

U.S. NAVY SERVICE EXECUTIVE

CAPTAIN TIM JAMES, USN, assumed command of NAWCTSD/NSA Orlando on 15 June 2023 after serving two years as Executive Officer. Before reporting to NAWCTSD, Tim served 14 years as an Aerospace Engineering Duty Officer (AEDO) leading a variety of acquisition programs and performing executive roles within NAVAIRSYSCOM and USSOCOM. Previous assignments include Deputy Program Manager for Unmanned Carrier Aviation Mission Control System (DPM for UMCS) for PEO(U&W)/PMA-268, Lead Systems Integrator responsible for cross-IPT / cross-program / test / training / advanced development / SYSCOM efforts for PMA-268 Unmanned Carrier Aviation, Military Deputy Director (MilDep) for Cross Warfare Programs (PDX) and Program Manager of Ready Relevant Learning (RRL) overseeing the Sailor 2025 Content Reengineering programs and Naval Service Training Center programs, and for Aviation Programs (PDA) at NAWCTSD helping lead the management of a $650M portfolio spanning 29 aviation programs, Executive Officer (XO) for the Acquisition Executive (AE) at USSOCOM analyzing the execution of a $3.2B portfolio, Program Manager for twelve Group 1-3 Unmanned Arial Systems for USSOCOM Fixed Wing Program Executive Office, and Assistant Program Manager for Sensitive Activities for Special Operations Forces Warrior Systems (PEO(SW)). Prior to his AEDO designation, CAPT James served as a Flag Aide, an Officer in Charge of a Maritime Expeditionary Security Detachment, and a pilot for the S-3 Viking Anti-submarine Warfare aircraft.

U.S. MARINE CORPS SERVICE EXECUTIVE

COLONEL MARCUS J. REYNOLDS, USMC, is the Program Manager for Training Systems (PM TRASYS) where he serves as Marine Corps Systems Command's executive agent assigned to manage acquisition and life-cycle support of Marine Corps ground training systems, devices, and training support services. Colonel Reynolds commands a staff of nearly 180 personnel, including Marines, civilians and support contractors located globally with professional expertise across the areas of program management, engineering, training facilities engineering, logistics, instructional systems design, procurement, contract management, cost estimation, budget and financial management, live, virtual, constructive integration, and business operations. In addition to multiple combat deployments in support of Operation Iraqi Freedom and Operation Enduring Freedom, Colonel Reynolds served a year as an Executive Fellow at Microsoft Corporation in Washington, D.C., through the Secretary of Defense Executive Fellowship Program. His research papers on mixed reality were published in the Marine Corps Gazette and in the U.S. Naval Institute's Proceedings Magazine. He holds an Associate of Science in Drafting & Design Technology, a Bachelor of Science in Industrial Technology from West Virginia Institute of Technology, and a Master of Science in Project Management from Colorado Technical University. His personal decorations include the Bronze Star Medal, Meritorious Service Medal with one gold star, Joint Commendation Medal, Navy Commendation Medal with one gold star, Navy & Marine Corps Achievement Medal, and the Combat Action Ribbon.

U.S. AIR FORCE SERVICE EXECUTIVE

COLONEL CARLOS QUINONES, USAF, is the acting Program Executive Officer, PEO Training. In this role, he leads a team of nearly 600 members, executes a $5.8B portfolio, and is responsible for developing and maintaining 70+ simulator and training systems for nine Major Commands (MAJCOMs) and multiple FMS partner nations. Col Quinones received his commission from the University of Puerto-Rico-Mayaguez in 1996 and completed an MS degree in Engineering Management and Systems from the University of Dayton. He is a graduate of Air Command and Staff College as well as Air War College. He has held numerous positions, including: Systems Engineer, Program Manager, Flight Commander, Executive Office, Materiel Leader and server staff positions. Program Office tours include; 412 Test Wing Test Wing, Advanced Weapons and Fire Control Division, MQ-9, KC-46, Space Launch Division, and DoD Space Test.

U.S. SPACE FORCE SERVICE EXECUTIVE

COLONEL COREY KLOPSTEIN, USSF, is the Program Executive Officer (PEO), Operational Test and Training Infrastructure (OTTI), Space Systems Command, Los Angeles Air Force Base, California. Col. Klopstein leads a combined team of military, government civilians, and contractors at two geographically separated units in the execution of a $4B+ portfolio to create a robust, enduring OTTI. These advanced systems provide the foundation for High-End Advanced Test, Training, and Tactics Development by all Guardians. As PEO OTTI, Col. Klopstein's portfolio includes the National Space Test and Training Complex (NSTTC) and enterprise Space Training systems providing interconnected, scalable, and distributed physical and digital ranges for full-spectrum test and training capabilities for the joint Warfighter. Col. Klopstein has served in a variety of acquisition, staff, and command assignments at many levels across the Space Force, Air Force, and Department of Defense. He recently served as Chief of the Analysis Branch in the Force Structure, Resources, and Assessment Directorate on the Joint Staff, Executive Officer to the Space and Missile Systems Center (SMC) Commander, Materiel Leader of the Enhanced Polar System, and Branch Chief on the United States Air Forces in Europe staff.

U.S. ARMY SERVICE EXECUTIVE

BRIGADIER GENERAL CHRISTINE A. BEELER, USA, is the program executive officer (PEO) of the U. S. Army Program Executive Office Simulation Training and Instrumentation (PEO STRI) headquartered in Orlando. Florida. PEO STRI executes a multi-billion-dollar testing, training, and threat portfolio annually, and is staffed by more than 1,200 military, government civilian and service support contractors. The organization also manages a Foreign Military Sales program which supports more than 65 countries. Before assuming the charter as PEO, Brigadier General Beeler served as the commanding general of the U. S. Army Contracting Command (ACC) headquartered at Redstone Arsenal, Huntsville, Alabama. Prior to ACC, Brigadier General Beeler served as the Commanding General for the U.S. Army Mission and Installation Contracting Command at Joint Base San Antonio-Sam Houston, Texas. Brigadier General Beeler was a distinguished military graduate and commissioned as a second lieutenant in the Ordnance Corps through the Army ROTC program at Boston University in 1991, where she earned a Bachelor of Science in Business Administration. She began her Army Acquisition career in 2001, and is certified in Defense Contracting, Program Management and Logistics. Her advanced education includes a Master of Arts in Administration and Management from Bowie State University, Prince George's County, Maryland; a Master of Public Administration in Environmental Management from Jacksonville State University, Jacksonville, Alabama; and a Master of Business Administration from Webster University. Brigadier General Beeler's military education includes a Master of Science in Strategic Studies from the U.S. Army War College. She is a graduate of the U.S. Army Command and General Staff College.

OSD EXECUTIVE

GREGORY KNAPP supports the U.S. Army Threat Systems Management Office (TSMO), the Office of the Under Secretary of Defense for Research and Engineering and the Office of the Under Secretary of Defense for Personnel and Readiness performing program management, technology and acquisition functions. He provides leadership and expertise in DoD 5G implementation, spectrum research and EW programs, coalition training programs, training infrastructure, and a wide variety of DoD training and technology issues including the air combat training system (ACTS). He provided critical support for the fielding of the Defense Readiness Reporting System and the conduct of the SecDef Nuclear Review. He served as the Vice Deputy Director for Future Joint Force Development, J7, Joint Staff, overseeing Operational Analysis, Chairman's Wargaming, Doctrine Development, Joint Concepts and Experimentation. He was also the Executive Director of the Joint Warfighting Center supporting USJFCOM and was instrumental in establishing the Joint National Training Capability and the Combatant Command Engagement and Training Transformation Program. Mr. Knapp has been a leader in training and technology for over 30 years, leading the development of numerous combat systems, combat system training systems and Navy test programs and is widely recognized as a leader in distributed simulation training technology implementation. He has managed over 50 programs affecting all Combatant Commands, Services, Interagency and Coalition partners.

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PRINCIPALS

SERVICE PRINCIPALS

CRAIG SNODERLY
U.S. NAVY
Head, Advanced Simulation Division, Naval Air Warfare Center Training Systems Division (NAWCTSD)

CAROL BYERS-BENDLE
U.S. MARINE CORPS
Future Technology Integrator, Program Manager for Training Systems (PM TRASYS), Marine Corps Systems Command (MARCORSYSCOM)

HEATH MORTON
U.S. AIR FORCE
Training Systems Technical Advisor, Air Force Materiel Command (AFMC)

KING MOLDER
U.S. SPACE FORCE
Director of Engineering, Operational Test and Training Infrastructure (OTTI)

DEBRA A. DAWSON
U.S. ARMY
Office of the Director, Strategic Engagements, U.S. Army Combat Capabilities Developmental Command Soldier Center (DEVCOM SC)

OSD PRINCIPAL

FREDERICK C. ENGLE
Director, Military Training, Office of the Secretary of Defense (Personnel & Readiness) (OSD (P&R))

SERVICE BOOTHS

USAF	1333/249
USSF	1333
U.S. Army PEO STRI	1339/1935
PM TRASYS/TECOM	1233
NAWCTSD/U.S. Navy	1239/149
U.S. Army DEVCOM	2135

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AGENDA

TIME	SESSION	LOCATION
WEDNESDAY • 27 NOVEMBER 2024		
0800	**EXHIBITOR REGISTRATION OPENS**	SOUTH CONCOURSE
1700	**EXHIBITOR REGISTRATION CLOSES**	
THURSDAY • 28 NOVEMBER 2024 • CLOSED FOR THANKSGIVING		
FRIDAY • 29 NOVEMBER 2024 AND SATURDAY • 30 NOVEMBER 2024		
0800	**EXHIBITOR REGISTRATION OPENS**	SOUTH CONCOURSE
1700	**EXHIBITOR REGISTRATION CLOSES**	
SUNDAY • 1 DECEMBER 2024		
0800	**EXHIBITOR REGISTRATION OPENS**	SOUTH CONCOURSE
1200	**CONFERENCE REGISTRATION OPENS**	SOUTH CONCOURSE
1200	**SATELLITE REGISTRATION OPENS**	HYATT REGENCY MAIN LOBBY
1800	**ALL REGISTRATIONS CLOSE**	
MONDAY • 2 DECEMBER 2024		
0700	**CONFERENCE AND EXHIBIT REGISTRATION OPEN**	SOUTH CONCOURSE
0730	**SATELLITE REGISTRATION OPENS**	HYATT REGENCY MAIN LOBBY
0830 – 1000	**TUTORIALS** (SYNOPSES BEGIN ON PAGE 81)	
	Navigating the Generative AI Revolution	ROOM 330EF
	Introduction to Defense Modeling and Simulation	ROOM 310AB
	Introduction to HLA 4	ROOM 310CD
	Digital Engineering Basic Principles	ROOM 320A
	Harnessing Physiology for Peak Human Performance in Training and Simulation	ROOM 320B
	Simulation Conceptual Modeling Theory and Use Cases	ROOM 320C
	Remodeling Readiness: Making Sense of Jobs, Tasks, and Skills in a Digital World	ROOM 320D
	Evolution of Radio Signal Visualization from Spectrum Analyzers to Mixed Reality	ROOM 320E
	Enhancing CBRN Response Readiness Using a Mental Model Matrix	ROOM 320F
	Securing Distributed LVC: Harnessing OMG DDS for Interoperability at Scale	ROOM 320G
	A Practitioner's Guide to Human-Machine Teaming Research	ROOM 330GH
1030 – 1200	**SIGNATURE EVENT:** Congressional M&S Caucus	ROOM 330ABCD
1030 – 1200	**TUTORIALS** (SYNOPSES BEGIN ON PAGE 85)	
	An Introduction to Cognitive Systems for Modeling & Simulation	ROOM 330EF
	Live, Virtual and Constructive (LVC) Interoperability 101	ROOM 310AB
	IEEE 1278™ Standard for Distributed Interactive Simulation (DIS): Concepts and Techniques	ROOM 310CD
	Digital Twins: KISS	ROOM 320A
	Motion Sickness in Virtual Environments: Theory and Practical Considerations	ROOM 320B
	Making the Case: Building Strong Modeling and Simulation (M&S) Verification and Validation Evidence	ROOM 320C
	Harnessing the Power of Simulation-Based Tools to Enhance Warfighter Brain Health	ROOM 320D
	Accessible, Adaptable, Adoptable eXtended Reality (XR) Training – The Need is Now, Are You Ready?	ROOM 320E
	The Development of a Resilient ADL Capacity Trough Long Term Nordic Military Partnership	ROOM 320F
	Introduction to Quantum Computing — It'll be Fine Man (Feynman)	ROOM 320G
	Applied Generative AI for 3D Simulation and Modeling Assets	ROOM 330GH
1245 – 1415	**TUTORIALS** (SYNOPSES BEGIN ON PAGE 89)	
	Unleashing the Potential: Harnessing Large Language Models and Generative AI in Military and Industry Applications	ROOM 330EF
	A Process for Distributed LVC Integration and Execution	ROOM 310AB
	TENA: The Test and Training Enabling Architecture	ROOM 310CD
	Simulated Systems — Real Return on Investment	ROOM 320A
	Mitigation and Management of Minimize Cybersickness in the Design and Implementation of Learning Systems with Virtual Environments	ROOM 320B
	Accreditation of Simulation-Based Experiments: Beyond the M&S	ROOM 320C
	Spell Casting: Calling the Power of Accessible Design to Your Serious Games and Simulations	ROOM 320D
	Mission XRpossible: Navigating Novice-to-Expert Assessment Design in Medical & Military Training	ROOM 320E
	U.S. Export Controls, National Security, and the Simulation Industry in 2024	ROOM 320F
	How the Brain Creates Reality; Enhancing the Reality Experience with Large Area Haptic Feedback	ROOM 320G
	Machine Learning: An Introduction for Humans	ROOM 330GH

1400	**EXHIBITS OPEN**	EXHIBIT HALL
1415 – 1545	**FOCUS EVENT:** Black Swan: The Singularity Paradox	ROOM 330ABCD
1415 – 1545	**COMMUNITY OF INTEREST:** Implications of Artificial Intelligence for Human Systems Integration in the DoD	ROOM 320H
1430 – 1600	**FOCUS EVENT:** America's Seed Fund: Planting Seeds for Success Under the SBIR/STTR Program	ROOM 310CD
1430 – 1600	**FOCUS EVENT:** Certified Modeling and Simulation Professional 3.0	ROOM 310AB
1430 – 1600	**FOCUS EVENT:** Different Makes Us Stronger: How to Build Diverse Thinking for Today's Defense Dominance	ROOM 330GH
1430 – 1600	**PROGRAM BRIEF:** USMC PM TRASYS – Acquisition Update	ROOM 330EF
1600 – 1730	**FOCUS EVENT:** 2024 I/ITSEC Fellows Presentation	ROOM 330ABCD
1800	**EXHIBITS CLOSE**	
1800	**ALL REGISTRATION STATIONS CLOSE**	

TUESDAY • 3 DECEMBER 2024

0700	**CONFERENCE AND EXHIBIT REGISTRATION OPEN**	SOUTH CONCOURSE
0730	**SATELLITE REGISTRATION OPENS**	HYATT REGENCY MAIN LOBBY
0800 – 1000	**OPENING CEREMONIES** Call to Order • Presentation of Colors • National Anthem • Invocation **OPENING REMARKS** Jim Threlfall, I/ITSEC 2024 Conference Chair **NAVAL SERVICES FIRESIDE CHAT** U.S. NAVY Admiral James W. Kilby, USN Vice Chief of Naval Operations U.S. MARINE CORPS Lieutenant General Benjamin T. Watson, USMC Commanding General, Training and Education Command **INDUSTRY KEYNOTE** Rick Schmidt President/Chief Executive Officer Tipping Point Solutions, Inc.	HYATT WINDERMERE BALLROOM
1000 – 1130	**SIGNATURE EVENT:** Senior Leader Panel	HYATT WINDERMERE BALLROOM
1130 – 1200	**GOVERNMENT KEYNOTE** Honorable Carlos Del Toro Secretary of the Navy	HYATT WINDERMERE BALLROOM
1200	**EXHIBITS OPEN**	EXHIBIT HALL
1200 – 1330	**LUNCH** (Opening of Exhibits and Lunch will occur at 1200 or upon adjournment of the Government Keynote)	EXHIBIT HALL
1400 – 1530	**PAPER SESSIONS** (Title/Author list begins on page 99. Session schedules for this time frame are on page 95.)	ROOMS 320ABCDEFG
1400 – 1445	**SIGNATURE EVENT:** A Fireside Chat with Admiral Christopher W. Grady, Vice Chairman, Joint Chiefs of Staff	ROOM 330ABCD
1400 – 1530	**FOCUS EVENT:** Joint & Multi-National Constructive Training Exercise	ROOM 310CD
1400 – 1530	**NEXT BIG THING:** Large Language Models	DESTINATION LOUNGE
1400 – 1530	**PROGRAM BRIEF:** Joint Simulation Environment (JSE)	ROOM 310AB
1500 – 1615	**SIGNATURE EVENT:** Naval Aviation Flag Officer Panel	ROOM 330ABCD
1600	**SATELLITE REGISTRATION STATION AT HYATT REGENCY CLOSES**	
1600 – 1730	**PAPER SESSIONS** (Title/Author list begins on page 99. Session schedules for this time frame are on page 95.)	ROOMS 320BCDF
1600 – 1730	**SIGNATURE EVENT:** GenAI: Transforming Defense Operations – Bridging AI Innovation with DoD Strategy	ROOM 310AB
1600 – 1730	**FOCUS EVENT:** Implementing Learning Engineering in Military Environments: An Operational & Tactical Perspective	ROOM 310CD
1600 – 1730	**FOCUS EVENT:** Maximizing the Emerging Wargaming Capabilities	ROOM 330GH
1600 – 1730	**NEXT BIG THING:** Human & Machine Teaming	DESTINATION LOUNGE
1630 – 1745	**SIGNATURE EVENT:** Army General Officer Panel	ROOM 330ABCD
1700 – 1830	**EXHIBITOR NETWORKING EVENT**	EXHIBIT HALL
1800	**CONVENTION CENTER REGISTRATION CLOSES**	
1800	Senior Leaders Networking Hour and NTSA M&S Awards Dinner (INVITATION ONLY)	HYATT REGENCY
1830	**EXHIBITS CLOSE**	

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AGENDA

WEDNESDAY • 4 DECEMBER 2024

0630	**5K WALK, RUN OR ROLL CHARITY RACE**	SOUTH CONCOURSE
0700	**CONFERENCE AND EXHIBIT REGISTRATION OPEN**	SOUTH CONCOURSE
0830 – 1000	**PAPER SESSIONS** (Title/Author list begins on page 99. Session schedules for this time frame are on page 96.)	ROOMS 320ABCDEFG
0830 – 1000	**SIGNATURE EVENT:** Leadership Perspectives on Development, Education and Training	ROOM 330ABCD
0830 – 1000	**FOCUS EVENT:** Department of the Air Force (DAF) — Noncommissioned Officer (NCO) Panel	ROOM 330EF
0830 – 1000	**FOCUS EVENT:** Navy Continuous Training Environment	ROOM 310AB
0830 – 1000	**FOCUS EVENT:** Marine Corps Senior Enlisted Panel	ROOM 320H
0830 – 1000	**FOCUS EVENT:** Evolution vs. Revolution: Special Operations' Path to Integrated Training in a Synthetic Environment	ROOM 310CD
0830 – 1000	**COMMUNITY OF INTEREST:** Data & Cyber Considerations to M&S	ROOM 330GH
0930	**EXHIBITS OPEN**	EXHIBIT HALL
1030 – 1200	**PAPER SESSIONS** (Title/Author list begins on page 99. Session schedules for this time frame are on page 96.)	ROOMS 320ABCDEFG
1030 – 1200	**SIGNATURE EVENT:** Navy Warfighting Requirements and Capabilities	ROOM 310AB
1030 – 1200	**SIGNATURE EVENT:** Department of the Air Force Panel	ROOM 330ABCD
1030 – 1200	**SIGNATURE EVENT:** Marine Corps General Officer Panel	ROOM 330EF
1030 – 1200	**FOCUS EVENT:** Army Senior NCO Perspective	ROOM 310CD
1030 – 1200	**NEXT BIG THING:** Novel Applications of Data	DESTINATION LOUNGE
1030 – 1200	**COMMUNITY OF INTEREST:** How Stakeholders in Niche Markets Can Benefit from, and Drive, Interoperability Standards and MOSA	ROOM 330GH
1200 – 1330	**LUNCH**	EXHIBIT HALL
1300 – 1700	**COMMUNITY OF INTEREST:** NTSA Career Fair at I/ITSEC	ROOM 210A
1330 – 1500	**PAPER SESSIONS** (Title/Author list begins on page 99. Session schedules for this time frame are on page 97.)	ROOMS 320ABCDEFG
1330 – 1500	**SIGNATURE EVENT:** Integrated Defense Against Cognitive Warfare	ROOM 330EF
1330 – 1500	**SIGNATURE EVENT:** Investing in Technology that Increases Training Realism to Enhance Readiness and Deterrence	ROOM 310CD
1330 – 1500	**FOCUS EVENT:** Space Capabilities Panel	ROOM 330ABCD
1330 – 1500	**FOCUS EVENT:** Women in Modeling and Simulation	ROOM 330GH
1330 – 1500	**FOCUS EVENT:** Ethical, Legal, and Social Implications of Human-AI Teaming	ROOM 310AB
1400 – 1530	**FOCUS EVENT:** Navy Senior Enlisted Panel	ROOM 320H
1400 – 1530	**FOCUS EVENT:** Best from Around the Globe	BOOTH 2909
1400 – 1530	**COMMUNITY OF INTEREST:** Value Proposition of STEM in Acquisition Talent Management	BOOTH 2395
1530 – 1700	**PAPER SESSIONS** (Title/Author list begins on page 99. Session schedules for this time frame are on page 97.)	ROOMS 320ABCDEFG
1530 – 1700	**SIGNATURE EVENT:** Supporting the Future of Training and Experimentation Infrastructure	ROOM 310AB
1530 – 1700	**SIGNATURE EVENT:** Cyberspace – Perspectives on Future Multi-Domain Challenges Panel	ROOM 330EF
1530 – 1700	**SIGNATURE EVENT:** Uncrewed & Autonomous Systems — Trends & Challenges	ROOM 330ABCD
1530 – 1700	**COMMUNITY OF INTEREST:** Digital Materiel Management	ROOM 330GH
1530 – 1700	**COMMUNITY OF INTEREST:** Artificial Intelligence (AI) – Training, Analytics, Experimentation and Acquisitions	ROOM 310CD
1600 – 1730	**NEXT BIG THING:** Catalysts to Adoption	DESTINATION LOUNGE
1745 – 1900	**NEXT BIG THING:** Next Big Thing Social	DESTINATION LOUNGE
1800	**ALL REGISTRATIONS CLOSE**	
1800	**EXHIBITS CLOSE**	

THURSDAY • 5 DECEMBER 2024

0700	**CONFERENCE AND EXHIBIT REGISTRATION OPEN**	SOUTH CONCOURSE
0830 – 1000	**PAPER SESSIONS** (Title/Author list begins on page 99. Session schedules for this time frame are on page 98.)	ROOMS 320BCEFG
0830 – 1000	**SIGNATURE EVENT:** Great Power Competition	ROOM 330ABCD
0830 – 1000	**FOCUS EVENT:** M&S Requirements: Urgency, Innovation To Meet Tomorrow's Globally Connected Training Gaps	ROOM 310AB
0830 – 1000	**NEXT BIG THING:** The Future of XR-Based, AI-Driven Simulation Technologies: What Effective Human Focused Systems Will Look Like Beyond the Next 5 Years	DESTINATION LOUNGE

0830 – 1000	**COMMUNITY OF INTEREST:** NATO M&S Development and Opportunities	ROOM 320H
0830 – 1000	**COMMUNITY OF INTEREST:** Transforming Simulation Supported Training with Project Tripoli	ROOM 330GH
0830 – 1000	**PROGRAM BRIEF:** Navy Training Programs Vision	ROOM 330EF
0830 – 1200	**PROGRAM BRIEF:** Army Acquisition Update (TSIS Updates)	ROOM 310CD
0930	**EXHIBITS OPEN**	EXHIBIT HALL
1030 – 1200	**PAPER SESSIONS** (Title/Author list begins on page 99. Session schedules for this time frame are on page 98.)	ROOMS 320ABCEG
1030 – 1200	**SIGNATURE EVENT:** Army Science Board Human Machine Interface Study Panel	ROOM 320H
1030 – 1200	**NEXT BIG THING:** Biometrics/Government Innovation Labs	DESTINATION LOUNGE
1030 – 1200	**COMMUNITY OF INTEREST:** The M&S Standards Landscape for NATO Distributed Synthetic Training	ROOM 310AB
1030 – 1200	**COMMUNITY OF INTEREST:** Training as a Service: Flipping the Script	ROOM 330GH
1030 – 1200	**PROGRAM BRIEF:** Navy Vision from Training Systems Program Managers	ROOM 330EF
1030 – 1200	**PROGRAM BRIEF:** Air Force Acquisition Update	ROOM 330ABCD
1200 – 1330	**LUNCH**	EXHIBIT HALL
1300	**SERIOUS GAMES SHOWCASE & CHALLENGE AWARDS CEREMONY**	BOOTH 2909
1300 – 1430	**NEXT BIG THING:** NATO Tech Grove AI Showcase	DESTINATION LOUNGE
1330 – 1500	**PAPER SESSIONS** (Title/Author list begins on page 99. Session schedules for this time frame are on page 98.)	ROOMS 320ACEG
1330 – 1500	**FOCUS EVENT:** Air Force MAJCOM O-6 Panel	ROOM 330ABCD
1330 – 1500	**COMMUNITY OF INTEREST:** Training Information Advantage: Using Modeling and Simulation to Enable the Information Warfighter	ROOM 320H
1330 – 1500	**COMMUNITY OF INTEREST:** Army Live Training	ROOM 310AB
1500	**EXHIBIT HALL AND REGISTRATION CLOSE**	
1800	**HOSTED RECEPTION** Sponsored by Lockheed Martin Corporation	HYATT WINDERMERE BALLROOM
1900	**CONFERENCE AWARDS BANQUET** Reception & Awards I/ITSEC 2024 Scholarship Presentations • RADM Fred Lewis Postgraduate Scholarships • Leonard P. Gollobin Postgraduate Scholarships • CMSP Postgraduate Scholarship • Barbara McDaniel Undergraduate Scholarships Best Tutorial Award Presentation Best Paper Award Presentation Passing of the Flag for I/ITSEC 2025 Post Dinner Networking	HYATT WINDERMERE BALLROOM

FRIDAY • 6 DECEMBER 2024

0800 – 1200	**PROFESSIONAL DEVELOPMENT WORKSHOPS** (SYNOPSES ON PAGES 108 – 111)	
	PDW 2: Beyond the Basics – An Interactive "Deep Dive" into Vehicle Modeling & Simulation (M&S) Fundamentals	ROOM 331D
	PDW 3: Year 2 — From the Last of Us to the First of Us: Rebuilding after a Zombie Crisis	ROOM 330GH
	PDW 4: Fundamentals of Artificial Intelligence in Simulation-based Training	ROOM 330EF
	PDW 5: Navigating the Evolving Landscape of Distributed Simulation: Strategies for Success Using DDS	ROOM 320E
	PDW 6: From Zero to Hero: VR Design and Assessment for Novice-to-Expert Progression	ROOM 331C
	PDW 7: Serious Game Design Workshop	ROOM 331A
	PDW 9: Human Centered Design for Learning-Performance Integration	ROOM 331B
	PDW 11: Certified Modeling and Simulation Professional 3.0 (CMSP)	ROOM 320F
	PDW 15: Starship Bridge Simulations as a Serious Game for Team Development	ROOM 330ABCD

DRESS CODE

BRANCH	CONFERENCE AND GENERAL SESSIONS	BANQUET
Navy	Service Khaki, Navy Service Uniform (Speakers – Service Dress Blue)	Dinner Dress White (Service Dress White Optional)
Marine Corps	Service "C" (Speakers – Service "A")	Evening Dress (Dress Blue "A" or Service "A" Optional)
Air Force	OCPs or Flight Suit (Speakers – Blues (Short or Long Sleeve))	Mess Dress or Semi-Formal
Space Force	OCPs (Speakers – Blues (Short or Long Sleeve))	Mess Dress or Semi-Formal
Army	Exhibit Floor/Attendees – ACUs or Duty Uniform (Speakers – ASUs, Class A's)	Army Dress Blues (Army Evening Mess Optional)
Coast Guard	Tropical Blue Long	Dinner Dress White (Service Dress White Optional)
Civilian	Business Attire	Black Tie (Optional)/Business or International Traditional Costume

I/ITSEC SUPPORTS OUR WARFIGHTERS, FIRST RESPONDERS, AND FAMILIES

For more information visit https://www.iitsec.org/attend/charities-at-iitsec

TUNNEL TO TOWERS

Since 9/11, Tunnel to Towers has been helping America's heroes by providing mortgage-free homes to Gold Star and fallen first responder families with young children and by building custom-designed smart homes for catastrophically injured veterans and first responders. They are also committed to eradicating veteran homelessness and aiding the victims of major U.S. disasters.

- 450+ mortgage free homes (delivered or in progress).
- Educating 600,000+ through their 9/11 Never Forget Mobile Exhibit.
- 250+ million raised in support of our nation's greatest heroes and their families.
- 95 cents of every dollar donated goes directly to programs.

The I/ITSEC 5K Run/Walk/Roll supports Tunnel to Towers with proceeds from the race going to the Orlando Chapter of Tunnel to Towers. In 2023, the I/ITSEC community was able to contribute over $9,000 to help our service members and we hope to contribute even more this year! The I/ITSEC 5K will be held Wednesday, 4 December at 0630 in front of the OCCC South Concourse.

EcosySTEM OF LEARNING
AT I/ITSEC

The EcosySTEM of Learning (EoL) focuses on strategically and tactically building interest and educational momentum through a wide breadth of Science, Technology, Engineering and Mathematics (STEM) initiatives. The EoL mission is to establish, nourish, and maintain a solid foundation for launching future leaders and fostering the future workforce.

Designed for agility and diversity, the EoL is built upon four major cornerstones. Each cornerstone is comprised of initiatives which provide impactful substance to the EoL architecture and to those who engage.

OUTREACH
ENCOUNTERS THROUGH OBSERVATION, INTERACTION, AND IMMERSION.
- Student Tours
- Interaction with STEM focused organizations
- Path for year round engagement opportunities

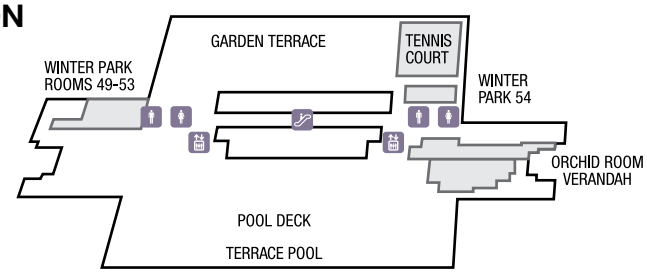
DISCOVERY DEN
PLATFORMS PROMOTING PRESENTATION SKILLS AND SHARING OF SUBJECT MATTER EXPERTISE.
- Informative Exhibits
- Serious Games Showcase & Challenge
- Presentation Theatre

BOOTHS 2285 – 2594

FOCUSED WORKSHOPS
CURRICULUM THROUGH CLASSES, SHORT COURSES, SEMINARS AND MORE.
- Teacher Focused
- Student Focused
- Workforce Development

CAREER INVESTMENT
ADVANCEMENTS WITH LONG TERM PROFESSIONAL GOALS IN MIND.
- Tutorials
- Professional Development Workshops
- Scholarship Program
- Career Fair
- Continuing Education Units (CEUs)
- University Collaboration

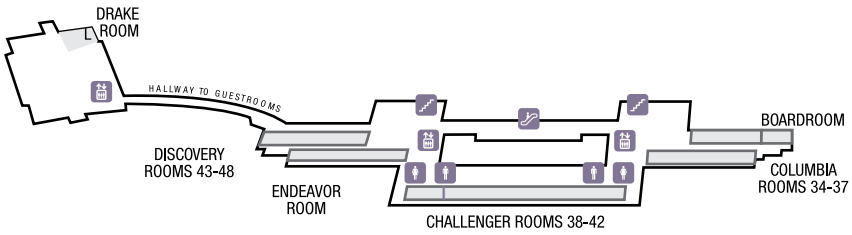
RECREATION LEVEL



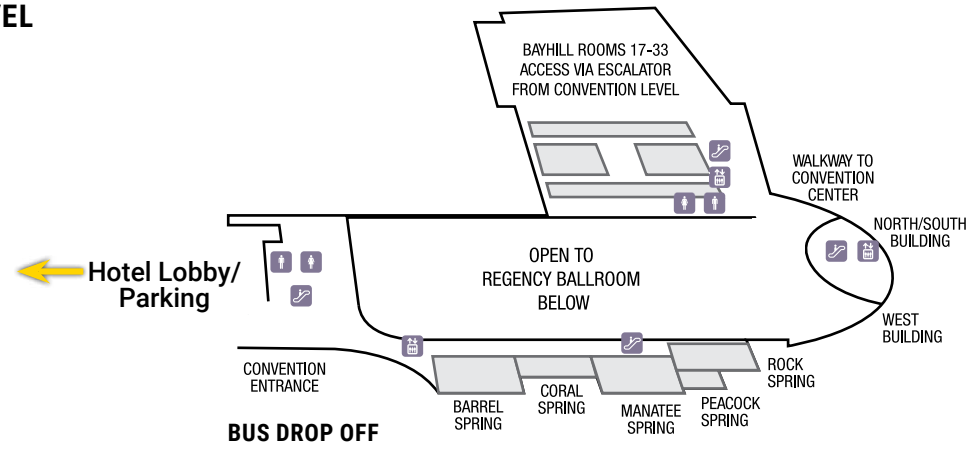
KEY

- Restrooms
- Escalator
- Stairway
- Elevator
- Information
- ATM

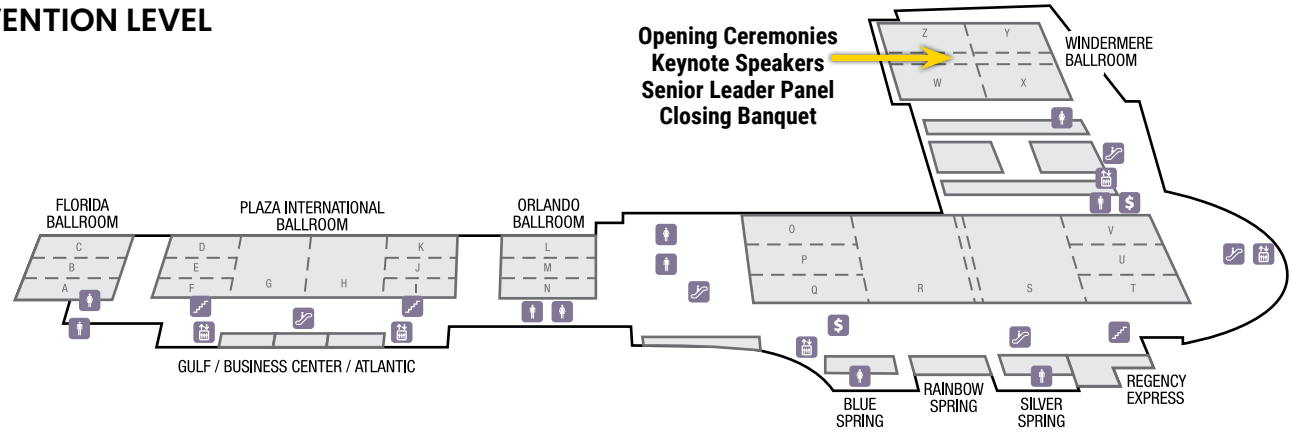
MEZZANINE LEVEL



ENTRY LEVEL



CONVENTION LEVEL

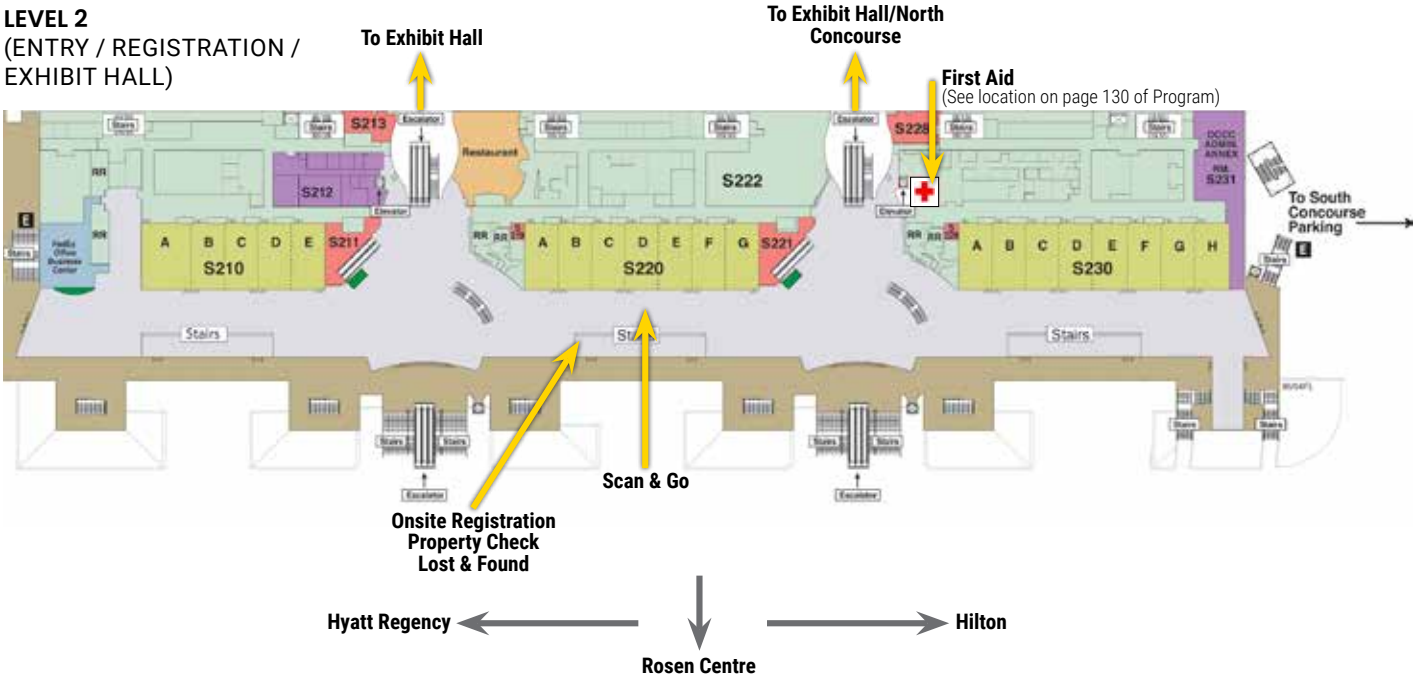
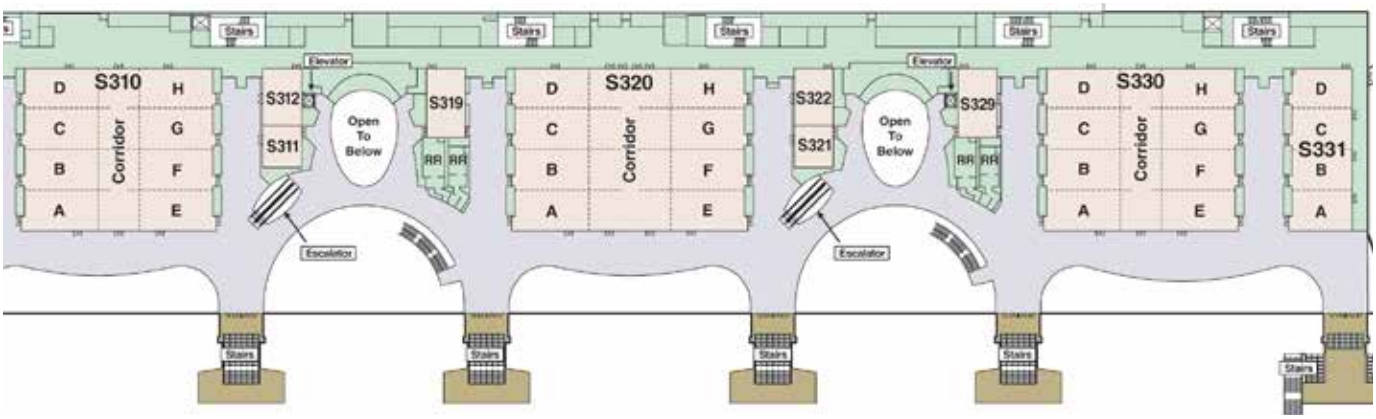


ORANGE COUNTY CONVENTION CENTER

NORTH CONCOURSE

SOUTH CONCOURSE

LEVEL 2
(ENTRY / REGISTRATION / EXHIBIT HALL)



LEVEL 3 (TUTORIALS / PRESENTATIONS / EVENTS / PRACTICE ROOMS / PROFESSIONAL DEVELOPMENT WORKSHOPS)