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FROM the
CONFERENCE
CHAIR



ELCOM E ATTENDEES OF I/ITSEC 2022!



On behalf of the United States Air Force, this year's Lead Service; our sponsoring association, the National Training and Simulation Association (NTSA); the Service Executives and their Principals; and the hundreds of volunteers from the military, government, industry, and academia, it is my distinct honor and great pleasure to welcome you to the 2022 Interservice/Industry Training, Simulation and Education Conference (I/ITSEC).

This year's theme, *Accelerate Change by Transforming Training – "It's Time to ACTT!!"* is specifically designed to challenge us as modeling and simulation, training, and education professionals to enhance, adapt, and accelerate our solutions to meeting training and education requirements through advanced technology and approaches. Faced with declining resources, increased competition, and the ability to rapidly implement new technology across the community, we must be able to achieve transformation before the solutions and approaches themselves become obsolete. Let's ACTT now to revolutionize training that will meet the challenges we face, both now and in the future.

I/ITSEC 2022 features content-rich special events, paper presentations, tutorials, and exhibits to inform and guide the latest learning and simulation trends, practices, and technologies. If networking, conducting market research, and/or demonstrating your innovations is your desire, you will be thrilled to join the approximately 18,000 expected attendees representing multiple countries. I/ITSEC provides the world's largest display of training system capabilities, as it expects over 425 exhibitors presenting leading-edge technology and innovative concepts that allow us all to ACTT now.

I/ITSEC is the largest global training, simulation, and education conference, attracting 17,000 to 20,000 people each year – and that requires a huge amount of coordinated effort to make it seem seamless and elegant! It begins with support and organization from the NTSA, and it also requires the efforts of over 300 volunteers to make this event happen each year! You read that right – 300 volunteers. I am humbled by the dedication of our team of professionals from industry, government, and academia who couple their passion and creativity to shape the content for our 2022 Program. I/ITSEC would not be what it is without their hard work and dedication. Whether they serve on a paper subcommittee, the Tutorials Board, Special Events, International Committee, the STEM Ecosystem, Knowledge Management, Operations, Conference Committee, or are a member of the Council of Chairs, each and every one of our volunteers make up the heartbeat of I/ITSEC. My sincere thanks and appreciation to each of them for a job well done this year.

Whether you are an engineer, educator, trainer, system developer, or business developer, I have no doubt that I/ITSEC 2022 will educate, motivate, and inspire you. Out of great challenges rise great opportunities. I challenge you to join in the conversation, to attend as many events as you can, and to engage as many exhibitors as possible so that you can execute the next great training exercise, develop the next great simulation environment, or educate our next-generation workforce. It's your time to ACTT.

Sincerely,

Matt Spruill

I/ITSEC 2022 Conference Chair



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FROM the
PROGRAM
CHAIR

WELCOME ATTENDEES OF I/ITSEC 2022!



Welcome to the world's largest modeling, simulation, and training conference! The Interservice, Industry, Training, Simulation, and Education Conference—I/ITSEC 2022 program is jam-packed beginning with Monday's tutorials and ending with Friday's Professional Development Workshops! We're so glad to be back in-person again this year as everyone truly values the networking that takes place at I/ITSEC. Whether attending paper presentations or one of our many special events, walking the exhibit hall with over 425 vendors, or just catching up with colleagues and friends, I/ITSEC 2022 has something to offer everyone in the M&S community!

This year's lead Service, the United States Air Force, in collaboration with the National Training and Simulation Association, the Service Executives and Principals, and the combined total of 300 volunteers from industry, government, and academia, have worked over the last year and a half to prepare this I/ITSEC 2022! Our theme this year is, *Accelerate Change by Transforming Training – "It's Time to ACTT!!"* Too often the solutions provided to our warfighter are obsolete by the time they go through the long acquisition, procurement, and fielding lifecycle. The challenge to both the Government and industry is to provide or accelerate solutions to the warfighter that make a timely difference and advantage to our services in these changing world situations. Our 2022 program is designed around how both the Government and industry can meet these demands to ensure our services and allies are prepared for the near term situation and also look into the future to bring innovations in training and simulation that surpass our adversaries.

This program guide represents a very rich and synchronized collection of opening and closing ceremonies, special events, papers, tutorials, STEM events, and collaboration / network opportunities. This professional education event is your opportunity to gain insights into the latest science, technology, and best practices; see new innovations; and collaborate with your peers across our domain to add to our industry's body of knowledge.

Monday kicks off with 30 tutorials running the gamut of XR, Simulation Interoperability, Training Design, to LVC. Monday also has the first of 43 special events with the Congressional Modeling and Simulation Event. As always, this standing-room only event features insights from training and simulation leaders from the Modeling and Simulation Congressional Caucus. Opening Ceremonies on Tuesday morning features a combination of keynote speakers from the U.S. Air Force and Space Force, along with Industry. This event will be followed by the military's discussion of current opportunities and challenges during the Senior Leader Panel.

From a professional development forum perspective, there are 130 paper presentations from six subcommittee tracks. Paper presentations focus on some of the most timely topics, to include medical simulators, cyber ranges and training, artificial intelligence, AR/VR, the metaverse, and DoD/Federal/Industry policies. The nominees for Best Paper from each subcommittee will present on Wednesday in two Best Paper sessions. At the Closing Ceremony, we will award the coveted I/ITSEC Best Paper and Best Tutorial awards. You won't want to miss seeing who among your peers has achieved this distinction. Congratulations to each of our Subcommittee Best Paper and Tutorial nominees this year.

Special Events continue to be an important part of the conference. Are you interested in hearing from General and Flag Officer Panels on the future of their organizations, Service headquarter-level Acquisition officials discussing rapid development and innovation, Joint/Allied Interoperability or learning about the "Next Big Thing-Metaverse"? Other events throughout the week will involve another Black Swan, Cyber Pavilion, and Ecosys-STEM of Learning including career investment, outreach encounters, and focused workshops. I hope you'll take advantage of those to forge new partnerships and gain new ideas you can take back to make a difference in your own organization.

The weeklong I/ITSEC closes with eight Professional Workshops on Friday, so this a great opportunity to share development methodologies and approaches. We look forward to offering you the experience to see beyond your current role and organizations to the possibilities within our community, our industry, our nations, and the world. ENJOY THE WEEK AT I/ITSEC 2022!

Jim Threlfall

I/ITSEC 2022 Program Chair



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OPENING CEREMONY SPEAKERS

FIRESIDE CHAT WITH USAF AND USSF SENIOR LEADERS



GENERAL DAVID W. ALLVIN, USAF
Vice Chief of Staff
of the Air Force

GENERAL DAVID W. ALLVIN is the Vice Chief of Staff of the U.S. Air Force, Arlington, Virginia. As Vice Chief, he presides over the Air Staff and serves as a member of the Joint Chiefs of Staff Requirements Oversight Council and the Deputy's Management Action Group. He assists the Chief of Staff with organizing, training and equipping of 689,000 active-duty, Guard, Reserve and civilian forces serving in the United States and overseas.

Gen. Allvin graduated from the U.S. Air Force Academy in 1986. He has commanded at the squadron and wing levels, including the 97th Air Mobility Wing, Altus Air Force Base, Oklahoma. He has held major command staff assignments and served on the Joint Staff.

Gen. Allvin served as Commanding General, NATO Air Training Command - Afghanistan; Commander, 438th Air Expeditionary Wing, Kabul, Afghanistan; Commander, 618th Air and Space Operations Center; Director, Strategy, Concepts and Assessments; Deputy Chief of Staff for Strategic Plans and Requirements, Headquarters, U.S. Air Force and Director, Strategy, Plans and Policy, Headquarters U.S. European Command; and as Vice Director, Strategy, Plans and Policy, the Joint Staff. Prior to his current assignment, he was Director for Strategy, Plans, and Policy, J-5, Joint Staff.

Gen. Allvin is a command pilot with more than 4,600 hours in more than 30 aircraft models, including 800 flight test hours.



MAJOR GENERAL SHAWN N. BRATTON, USSF
Commander, Space Training and
Readiness Command

MAJOR GENERAL SHAWN N. BRATTON is Commander, Space Training and Readiness Command, temporarily located at Peterson Space Force Base, Colorado. Space Training and Readiness Command was established as a Field Command 23 August 2021, and is responsible for preparing the USSF and more than 6,000 Guardians to prevail in competition and conflict through innovative education, training, doctrine, and test activities. Maj Gen Bratton received his commission from the Academy of Military Science in Knoxville, Tenn. Prior to his commissioning Maj Gen Bratton served as an enlisted member of the 107th Air Control Squadron, Arizona Air National Guard. He has served in numerous operational and staff positions. Maj Gen Bratton was the first Air National Guardsman to attend Space Weapons Instructor Course at Nellis Air Force Base. He deployed to the Air Component Coordination Element, Camp Victory Iraq for Operation IRAQI FREEDOM, he served as the USNORTHCOM Director of Space Forces, and commanded the 175th Cyberspace Operations Group, Maryland Air National Guard. He also served as the Deputy Director of Operations, USSPACECOM. Prior to his current assignment, Maj Gen Bratton served as the Space Training and Readiness Task Force Lead.



VAN SULLIVAN
Chief Executive Officer,
Trideum Corporation

INDUSTRY KEYNOTE

VAN SULLIVAN is one of the founders and has served as the CEO of Trideum Corporation since 2005. As CEO, his primary focus is on establishing an evergreen company through the implementation of an employee stock ownership plan and development of an ownership culture in all levels of the employee family. Mr. Sullivan leverages his early life on the farm to integrate existing resources to create novel solutions to complex problems that add value to Trideum's customers. Van is a classically trained engineer with certifications in government contract management, project management, and entrepreneurship. He has 40 years of experience in applied research, engineering development, and test and evaluation. Specific areas of expertise include sensor analysis and test, emulative-level simulation (continuous and discrete, component to system level), and integration of simulation technology to test and evaluation.

Van holds a master's degree in electrical engineering from the University of Central Florida and a bachelor's degree in engineering science and mechanics from the University of Tennessee. His graduate work focused on implementation of a Kalman-filter compensated simulation for real-time human performance assessment. He has additionally completed several professional development programs from Duke University, MIT, and Oxford University.

Van is well known at the national, state, and local level from both his role at Trideum and in the Huntsville Madison County Chamber of Commerce, as well as from his current and past participation in community activities including: president of the Westminster Christian Academy School Board, chairman of the Hope Evangelical Free Church Elder Board, member of the Huntsville Committee of 100 and several of its task forces, member of the BizPac Board of Directors, currently serving as the Vice President of the Alabama School of Cyber Technology and Engineering Foundation Board of Directors, and from coaching soccer at the recreational, club, and varsity school levels. He enjoys spending time with his wife of 36 years, his three kids and two "kid-in-laws", and restoring his three classic mustangs.



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SENIOR LEADER PANEL

TUESDAY, 29 NOVEMBER • 1015 – 1200
HYATT WINDERMERE BALLROOM

SENIOR LEADER PANEL



**REAR ADMIRAL JAMES
A. ROBB, USN (RET.)**

President, National Training
and Simulation Association
(NTSA)



**DIMITRI KUSNEZOV,
PH.D.**

Under Secretary for
Science and Technology,
Department of Homeland
Security



**LIEUTENANT GENERAL
KEVIN M. IIAMS, USMC**

Commanding General,
Training and Education
Command, USMC



**VICE ADMIRAL FRANCIS
MORLEY, USN**

Principal Military Deputy
Assistant Secretary of
the Navy (Research,
Development and
Acquisition)



**DASD CAROLINE
BAXTER**

Deputy Assistant Secretary
of Defense (DASD) for
Force, Education and
Training, USD P&R



YOUNG J. BANG

Principal Deputy Assistant
Secretary of the Army
(Acquisition, Logistics &
Technology)



**KAREN D. H.
SAUNDERS, SES**

Program Executive Officer
for Simulation, Training and
Instrumentation, U.S. Army
PEO STRI



LISA COSTA, SES, PH.D.

Chief Technology and
Innovation Officer (CTIO),
U.S. Space Force



KEVIN D. STAMEY, SES

Director for Information
Dominance Programs,
Office of the Assistant
Secretary of the Air Force for
Acquisition, Technology and
Logistics



**LIEUTENANT GENERAL
MICHAEL CLAESSON**

Chief of Joint Operations,
Swedish Armed Forces

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 Officer panel will address current and future environments within the context of this year's conference theme, *Accelerate Change by Transforming Training – "It's Time to ACTT!!"* This year's panel will include senior representatives from U.S. Military Services, DHS, OSD, and NATO. Following opening remarks, the audience will interact with the panel through a Q&A feature. All attendees will also have the chance to submit questions in advance. Do not miss the opportunity to hear from national leaders on the way ahead.



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CONFERENCE LEADERSHIP

CONFERENCE CHAIR



MATT SPRUILL
Trideum Corporation
I/ITSEC 2022
Conference Chair

MATTHIAS “MATT” A. SPRUILL IV is Trideum Corporation’s Director of Training Services & Solutions. In this role, he is responsible for leading solution delivery and developing Trideum’s strategic vision for all training, simulation, and education growth within Trideum. Matt has worked in the training and simulation industry for 34 years, holding both military and industry positions, and he is constantly exploring new methods, techniques, and technologies to help advance the state of the art in training and education for not only today’s, but for the next generation, workforce. Matt’s 20-year military career as a U.S. Army Armor Officer culminated in leading development and operationalization of the Joint Live Virtual Constructive Federation (JLVC), DoD’s first all-service entity-based federation that is still used to train combatant commands, joint task forces, and service organizations. In his current role at Trideum, Matt also serves as a strategic advisor to the Joint Staff J7’s Joint Knowledge Online (JKO) leadership. Additionally, Matt has been a tireless advocate and an active leader in the broader training and simulation community, including serving as Chairman of the Board of the Virginia Modeling and Simulation Partnership, Conference Chair for MODSIM 2009, and Vice President of Operations for the Association of the United States Army (AUSA) Sunshine Chapter. For 16 years, he has held progressive I/ITSEC leadership positions, including serving twice as a Subcommittee Chair and three times as Special Events Chair. Matt holds a Master of Science degree in Computer Information Systems from Colorado State University and a Bachelors degree in Management Information Systems from the University of Kentucky. He is the co-author of three Civil War books: “Echoes of Thunder – A Guide to the Seven Days Battles;” “Summer Lightning – A Guide to the Second Battle of Manassas;” and “Decisions at Second Manassas – The Fourteen Critical Decisions That Defined the Battle.”

PROGRAM CHAIR



JIM THRELFALL
Tipping Point Solutions
I/ITSEC 2022
Program Chair

JAMES “JIM” THRELFALL is Vice President of Operations/Business Development at Tipping Point Solutions, Inc. Jim has more than 38 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. Jim is a retired Army Field Artillery Officer. 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 Program Manager under the Army Capabilities Integration Center (ARCIC), CIO/G6 and TRADOC “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. Jim 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.

CONFERENCE SPONSOR



REAR ADMIRAL JAMES ROBB, USN (RET.)
President, National Training
and Simulation Association

Following graduation from Rensselaer Polytechnic Institute, designation as a Naval Aviator and training in the F-14 Tomcat, Admiral Robb deployed nine times across the globe

accumulating over 5,000 hours and 1,000 carrier landings. Following a tour flying Russian fighters in the Nevada desert, he commanded Fighter Squadron Fifty One, Carrier Air Wing Nine, the Navy Fighter Weapons School (TOPGUN) and Carrier Strike Group Seven. As a Flag Officer he managed all Naval Aviation Programs (N980) and was the Director of Navy Readiness (N43). Following 9/11, he joined USCENTCOM as the Director of Plans (J5), deploying to the Middle East in support of combat operations. Retiring in 2006, he built a successful small consulting business before joining the National Training and Simulation Association as President in June 2012.



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

Mr. 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.



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INTERSERVICE EXECUTIVES

AIR FORCE SERVICE EXECUTIVE



COLONEL MATT "T2" RYAN, USAF, is the Senior Materiel Leader, Simulators Division. In this role, he leads a team of 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 Ryan received his commission from the University of Oklahoma in 1999, completed an M.S. degree in Aerospace Engineering from the University of Dayton, and an M.S. degree in Systems Engineering from the Air Force Institute of Technology at Wright-Patterson. He is a graduate of Air Force Test Pilot School and has served as a Lead Test Flight Engineer, Flight Commander, Director of Operations, and Squadron Commander; program office tours include the Department of the Air Force Rapid Capabilities Office and the Life Cycle Management Center's Special Projects program office; and served in a staff position at Global Reach Programs, Office of the Assistant Secretary of the Air Force for Acquisition, Technology and Logistics.

ARMY SERVICE EXECUTIVE



KAREN D.H. SAUNDERS, SES, is the Program Executive Officer for Simulation, Training and Instrumentation (PEO STRI). She previously served as the Chief of Staff for the Undersecretary of Defense for Acquisition and Sustainment (USD(A&S)). Prior to that,

Ms. Saunders served as the Department of Defense's (DoD) Executive Director, Defense Science Board (DSB). In December 2014, Ms. Saunders culminated a 30 year honorable career in the U.S. Army as a Colonel serving as the Chief of Staff for the Assistant Secretary of the Army for Acquisition, Logistics and Technology. Prior to this, she served on the Office of the Secretary of Defense's (OSD) staff as the Military Assistant to the Principal Deputy to the Assistant Secretary of Defense for Research and Engineering. Prior to serving on the OSD staff, she was assigned to the NATO Training Mission – Afghanistan, Combined Security Transition Command – Afghanistan serving as the Chief, Security Cooperation Division; Security Assistance Office. She also served as the Senior Advisor to the Afghan National Army Ministry of Defense Acquisition, Technology, and Logistics Deputy Minister. Ms. Saunders has held command and staff assignments in Military Intelligence and Operations Research and Systems Analysis to include Strategic Intelligence Research Analyst, U.S. Army

Concepts Analysis Agency, Bethesda, Maryland; Chief, Intelligence Systems Division, Battle Command Battle Lab – Huachuca; Battalion Executive Officer and Operations Officer, 304th Military Intelligence Battalion and 305nd Military Intelligence Battalion, Fort Huachuca, Arizona.

NAVY SERVICE EXECUTIVE



CAPTAIN DAN COVELLI, USN, is the Commanding Officer, Naval Air Warfare Center Training Systems Division (NAWCTSD) and Naval Support Activity (NSA), Orlando. NAWCTSD is the Navy's principal center for modeling, simulation and training systems

technologies. The command provides training solutions and research for a wide spectrum of military programs, including aviation, surface, and undersea warfare and other specialized requirements. Captain Covelli leads a workforce of more than 1,200 scientists, evaluators, engineers, technicians, logisticians, contracting specialists, and support personnel. Captain Covelli, a 1994 graduate of S.U.N.Y. Maritime College with a Bachelor of Engineering Degree in Electrical Engineering, received his commission through the Naval Reserve Officers Training Corps and was designated a Naval Aviator in 1997. Captain Covelli served as the Executive Officer for NAWCTSD prior to assuming command in July 2021. A Marine Aviation Weapons and Tactics Squadron 1 graduate, CAPT Covelli has flown 119 combat missions and logged over 2,800 flight hours in 19 different aircraft. His decorations include the Meritorious Service Medal, Air Medal – Strike/Flight, Navy Commendation Medal, and Navy Achievement Medal along with various other personal, unit, and service medals.

MARINE CORPS SERVICE EXECUTIVE



LIEUTENANT COLONEL MARCUS J. REYNOLDS 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. Lieutenant 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. He served a year as an Executive Fellow at Microsoft Corporation in Washington, D.C., through the Secretary of Defense Executive Fellowship Program and 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.

SENIOR ADVISOR FOR READINESS AND TRAINING



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



HEATH MORTON
AIR FORCE

Training Systems Technical Advisor
Air Force Materiel Command (AFMC)



KYLE PLATT
ARMY

Director, Instrumentation Management
Office (IMO)
U.S. Army Program Executive Office,
Simulation, Training and Instrumentation
(PEO STRI)



CAROL BYERS-BENDLE
MARINE CORPS

Future Technology Integrator
Program Manager for Training Systems (PM
TRASYS), Marine Corps Systems Command
(MARCORSYSCOM)



KENT GRITTON
NAVY

Director, Special Projects
Naval Air Warfare Center Training Systems
Division (NAWCTSD)

OSD PRINCIPAL



FREDERICK C. ENGLE

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

SERVICE BOOTHS

USAF	1539
PEO STRI	339/1387/1533
PM TRASYS	1433
NAWCTSD	349/1439
U.S. Army DEVCOM	329



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ACRONYMS

COMMANDS

U.S. AIR FORCE

Air Force Agency for Modeling & Simulation	AFAMS
Air Force Life Cycle Management Center	AFLCMC
Air Force Life Cycle Management Center – Simulator Division	AFLCMC/WNS
Air Force Major Commands	MAJCOMs
Air Force Materiel Command	AFMC
Air Force Research Laboratory	AFRL

U.S. SPACE FORCE

Chief of Space Operations	CSO
Space Operations Command	SPOC
Space Training and Readiness Command	STARCOM
Space Systems Command	SSC
United States Space Force	USSF

U.S. ARMY

Army Contracting Command-Orlando	ACC-ORL
Assistant Secretary of the Army (Acquisition, Logistics and Technology)	ASA (ALT)
Program Executive Office for Command, Control and Communications – Tactical	PEO C3T
Program Executive Office – Aviation	PEO AVN
Program Executive Office Ground Combat Systems	PEO GCS
Program Executive Office – Intelligence, Electronic Warfare and Sensors	PEO IEWS
Simulation & Training Technology Center	STTC
Synthetic Training Environment Cross Functional Team	STE CFT
Training and Doctrine Command	TRADOC
U.S. Army Combat Capabilities Development Command - Soldier Center	DEVCOM SC
U.S. Army Program Executive Office, Simulation, Training and Instrumentation	PEO STRI
U.S. Army Threat Systems Management Office	TSMO

U.S. MARINE CORPS

Marine Air Ground Task Force Training Command	MAGTFTC
Marine Corps Air Ground Combat Center	MCAGCC
Marine Corps Systems Command	MARCORSYSCOM
Program Manager, Training Systems	PM TRASYS

U.S. NAVY

Assistant Secretary of the Navy for Research Development and Acquisition	ASN (RD&A)
Center for Naval Aviation Technical Training	CNATT
Commander, Fleet Readiness Centers	COMFRC
Commander, Naval Air Forces	AIRFOR
Commander, Naval Air Atlantic	AIRLANT
Commander, Naval Air Pacific	AIRPAC
Commander, Naval Air Training	CNATRA
Commander, Naval Surface Forces	SURFFOR
Commander, Regional Maintenance Center	CRMF
Naval Air Systems Command	NAVAIR
Naval Air Warfare Center Aircraft Division	NAWCAD
Naval Air Warfare Center Training Systems Division	NAWCTSD
Naval Air Warfare Center Weapons Division	NAWCWD
Naval Air Warfare Development Center	NAWDC
Naval Education and Training Command	NETC
Naval Information Warfare Command	NAVIFOR
Naval Sea Systems Command	NAVSEA
Naval Warfare Systems Command	NAWWAR
Office of the Chief of Naval Operations	OPNAV

OTHERS

Cybersecurity and Infrastructure Security Agency	CISA
Defence Science and Technology Laboratory	DSTL
Department of Homeland Security	DHS
Industry & Standards Organization	ISTO
Institute for Defense Analyses	IDA
Institute of Electrical and Electronics Engineers	IEEE
NATO Modelling and Simulation Group	NMSG
North Atlantic Treaty Organization	NATO
Secretary of Defense	OSD
Undersecretary of Defense for Acquisition and Sustainment	USD(A&S)
U.S. Special Operations Command	USSOCOM



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AGENDA

WEDNESDAY • 23 NOVEMBER 2022

TIME	SESSION	LOCATION
0800	EXHIBITOR REGISTRATION OPEN	WEST CONCOURSE
1700	EXHIBITOR REGISTRATION CLOSE	

THURSDAY • 24 NOVEMBER 2022 • CLOSED FOR THANKSGIVING

FRIDAY • 25 NOVEMBER 2022 AND SATURDAY • 26 NOVEMBER 2022

0800	EXHIBITOR REGISTRATION OPEN	WEST CONCOURSE
1700	EXHIBITOR REGISTRATION CLOSE	

SUNDAY • 27 NOVEMBER 2022

0800	EXHIBITOR REGISTRATION OPEN	WEST CONCOURSE
1200	CONFERENCE REGISTRATION OPEN	WEST CONCOURSE
1200	SATELLITE REGISTRATION OPEN	HYATT REGENCY MAIN LOBBY/ ROSEN CENTRE HOTEL
1800	ALL REGISTRATIONS CLOSE	

MONDAY • 28 NOVEMBER 2022

0700	CONFERENCE AND EXHIBIT REGISTRATION OPEN	WEST CONCOURSE
0730	SATELLITE REGISTRATION OPEN	HYATT REGENCY MAIN LOBBY/ ROSEN CENTRE HOTEL

0830 – 1000	TUTORIALS (SYNOPSSES BEGIN ON PAGE 67)	
	Putting the When and Where into Simulations	W307A
	International Trade Compliance: Regulatory Developments and Key Risk Areas	W307B
	Avoid the Illusion of Knowing: Reshaping Design in ADDIE	W307C
	Simulation Conceptual Modeling Theory and Use Cases	W307D
	The WHY & How of eXtended Reality (XR) Enterprise Adoption	W308A
	The I/ITSEC Professional Development Primer: M&S Fundamentals, Certification, and Contemporary Applications	W308B
	Powerful & Accessible Immersive Experiences – Visualizing & Transforming Large Data Sets in eXtended Reality	W308C
	IEEE 1278TM Standard for Distributed Interactive Simulation (DIS): Concepts and Techniques	W305A
	A Process for Distributed LVC Event Integration and Execution	W305B
	An Introduction to Cognitive Systems for Modeling & Simulation	W306A
1030 – 1200	SIGNATURE EVENT: Congressional Modeling and Simulation Caucus	W311ABCD
1245 – 1415	TUTORIALS (SYNOPSSES BEGIN ON PAGE 71)	
	A Comprehensive Introduction to Medical Simulation	W307A
	Principles for Designing Effective, Efficient, and Engaging Training to Accelerate Expertise	W307B
	Introduction to Competency-Based Experiential Learning	W307C
	Addressing the Challenges of Rigorous Model Validation	W307D
	Machine Learning and the Benefits of Applying it to XR Training Systems	W308A
	Introduction to Defense Modeling and Simulation	W308B
	Evolution of RF Signal Visualization from Spectrum Analyzers to Augmented Reality	W308C
	Introduction to HLA	W305A
	Live, Virtual and Constructive (LVC) Interoperability 101	W305B
	Secure Heterogeneous Network (HetNet) Architecture Applied to LVC Environments	W306A
1245 – 1415	FOCUS EVENT: CMSP 3.0 – Reinvention!	W300 – THEATRE
1400	EXHIBITS OPEN	EXHIBIT HALL



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AGENDA

1430 – 1545	SIGNATURE EVENT: The NBT TalX – Imagining the Future Fight through Emerging Technologies	W300 – THEATRE
1430 – 1600	TUTORIALS (SYNOPSSES BEGIN ON PAGE 74)	
	Practical Guide to Learning Engineering	W307A
	Operational Impact: Quantifying Training Solution Value	W307B
	Leading by Design: User Experience (UX) for the Department of Defense	W307C
	Accreditation of Simulation-Based Experiments and Training: Beyond the M&S	W307D
	Anytime, Anywhere Adaptive XR Training	W308A
	A History of Games for Military Training: From Sheep Knuckles to the Metaverse	W308B
	Sharing Environmental Data for LVC using RIEDP	W308C
	TENA, Interoperability, and Data Management	W305A
	Secure Distributed Simulation Training Systems Anywhere, with OMG DDS	W305B
	Transform Your Training by Migrating Content to cmi5	W306A
1600 – 1730	SIGNATURE EVENT: I/ITSEC Fellows	W300 – THEATRE
1800	EXHIBITS CLOSE	
1800	ALL REGISTRATION STATIONS CLOSE	

TUESDAY • 29 NOVEMBER 2022

0700	CONFERENCE AND EXHIBIT REGISTRATION OPEN	WEST CONCOURSE
0730	SATELLITE REGISTRATION OPEN	HYATT REGENCY MAIN LOBBY/ ROSEN CENTRE HOTEL
0815 – 1000	OPENING CEREMONIES Call to Order Presentation of Colors National Anthem Invocation OPENING REMARKS Matt Spruill, 2022 Conference Chair	HYATT WINDERMERE BALLROOM
FIRESIDE CHAT WITH USAF AND USSF SENIOR LEADERS		INDUSTRY KEYNOTE
	 General David W. Allvin, USAF Vice Chief of Staff of the Air Force	 Maj Gen Shawn N. Bratton, USSF Commander, Space Training and Readiness Command
		 Van Sullivan Chief Executive Officer, Trideum Corporation
1015 – 1200	SIGNATURE EVENT: Senior Leader Panel	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 Senior Leader Panel)	EXHIBIT HALL
1400 – 1530	PAPER SESSIONS (TITLE/AUTHOR LIST BEGINS ON PAGE 90. SESSION SCHEDULES FOR THIS TIME FRAME ARE ON PAGE 86.)	ROOMS W307ABCD; W308AB
1400 – 1530	SIGNATURE EVENT: Department of the Air Force (DAF) Senior Leader / General Officer Panel	W311ABCD
1400 – 1530	FOCUS EVENT: Thinking on Your Feet: Agile Acquisition for a Dynamic World	W309AB
1400 – 1530	PROGRAM BRIEF: PM TRASYS Program Reviews	W308C
1600 – 1730	PAPER SESSIONS (TITLE/AUTHOR LIST BEGINS ON PAGE 90. SESSION SCHEDULES FOR THIS TIME FRAME ARE ON PAGE 86.)	ROOMS W307ABCD; W308AB
1600 – 1730	SIGNATURE EVENT: Virtual Training for Actual Results	W304EF
1600 – 1730	SIGNATURE EVENT: Indo-Pacific Training Capability Improvements for Multi-Domain Warfighting	W304AB
1600 – 1730	FOCUS EVENT: The Data is the Thing!: Successes and Challenges in Measuring Performance, Proficiency and Effectiveness Outcomes in Multinational Real World Contexts	W304GH
1600 – 1730	PROGRAM BRIEF: USAF Acquisition Update	W308C
1600	SATELLITE REGISTRATION STATIONS AT HYATT & ROSEN CENTRE CLOSE	



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AGENDA

1700 – 1830	Exhibitor Networking Event	EXHIBIT HALL
1800	CONVENTION CENTER REGISTRATION CLOSES	
1800	Senior Leaders Networking Hour and M&S Awards Dinner (INVITATION ONLY)	HYATT REGENCY
1830	EXHIBITS CLOSE	

WEDNESDAY • 30 NOVEMBER 2022

0630	5K Walk, Run or Roll Charity Race	OCCC – WEST HALL D
0700	CONFERENCE AND EXHIBIT REGISTRATION OPEN	WEST CONCOURSE
0830 – 1000	PAPER SESSIONS (TITLE/AUTHOR LIST BEGINS ON PAGE 90. SESSION SCHEDULES FOR THIS TIME FRAME ARE ON PAGE 87.)	ROOMS W307ABCD; W308A
0830 – 1000	SIGNATURE EVENT: Accelerating Innovation to Bridge the Valley of Death	W304GH
0830 – 1000	SIGNATURE EVENT: The NBT TalX – The Consumer Metaverse Meets Defense	W311ABCD
0830 – 1000	FOCUS EVENT: Synthetic Environments to Enable Multi-Domain Operations	W310AB
0830 – 1000	FOCUS EVENT: Adaptive Training at Scale: Ready for Primetime?	W300 – THEATRE
0830 – 1000	PROGRAM BRIEF: Navy Training Programs Vision – Platforms, Sailors, Environment	W309AB
0930	EXHIBITS OPEN	EXHIBIT HALL
1030 – 1200	PAPER SESSIONS (TITLE/AUTHOR LIST BEGINS ON PAGE 90. SESSION SCHEDULES FOR THIS TIME FRAME ARE ON PAGE 87.)	ROOMS W307ACD; W308A
1030 – 1200	SIGNATURE EVENT: Naval Aviation Flag Officer Panel	W304AB
1030 – 1200	SIGNATURE EVENT: The NBT TalX – Beyond the Hype: Perspectives on XR and the Metaverse for Training	W311ABCD
1030 – 1200	COMMUNITY OF INTEREST: M&S Emerging Technologies: Innovation Opportunities and Challenges	W308C
1030 – 1200	COMMUNITY OF INTEREST: Joint Wargaming Interoperability Showcase	W309AB
1200 – 1330	LUNCH	EXHIBIT HALL
1200 – 1700	FOCUS EVENT: I/ITSEC Career Fair	W110A
1400 – 1530	PAPER SESSIONS (TITLE/AUTHOR LIST BEGINS ON PAGE 90. SESSION SCHEDULES FOR THIS TIME FRAME ARE ON PAGE 88.)	ROOMS W307ABCD
1400 – 1530	SIGNATURE EVENT: The NBT TalX – Defense Leaders Perspectives on the Military Metaverse	W311ABCD
1400 – 1530	SIGNATURE EVENT: Principal Cyber Advisors' Panel	W304AB
1400 – 1530	SIGNATURE EVENT: Transforming Training with Allies and Partners to Confront and Deter Russian Aggression	W304EF
1400 – 1530	FOCUS EVENT: Training, Analytics, and Experimentation: USMC Wargaming Panel	W309AB
1400 – 1530	COMMUNITY OF INTEREST: The New Frontier: Training for the Space Mission	W310AB
1600 – 1730	PAPER SESSIONS (TITLE/AUTHOR LIST BEGINS ON PAGE 90. SESSION SCHEDULES FOR THIS TIME FRAME ARE ON PAGE 88.)	ROOMS W307ABD; W308AB
1600 – 1730	SIGNATURE EVENT: Getting Real, Getting Better – A Navy Flag Officer Panel	W304AB
1600 – 1730	SIGNATURE EVENT: The NBT TalX – Vision of the Military Metaverse	W311ABCD
1600 – 1730	FOCUS EVENT: Space Warfighter Training Transformation: A Visual Approach	W310AB
1600 – 1730	FOCUS EVENT: Joint Service Interoperability and Modeling and Simulation in the DoD	W304GH
1600 – 1730	FOCUS EVENT: Back to the Future – A Green Planet May Require Nuclear Power	W300 – THEATRE
1600 – 1730	FOCUS EVENT: Best From Around the Globe	W304EF
1800	ALL REGISTRATIONS CLOSE	
1800	EXHIBITS CLOSE	

THURSDAY • 1 DECEMBER 2022

0700	CONFERENCE AND EXHIBIT REGISTRATION OPEN	WEST CONCOURSE
0830 – 1000	PAPER SESSIONS (TITLE/AUTHOR LIST BEGINS ON PAGE 90. SESSION SCHEDULES FOR THIS TIME FRAME ARE ON PAGE 89.)	ROOMS W307ABCD; W308AB
0830 – 1000	FOCUS EVENT: Special Operations Force Battlespace Preview	W310AB
0830 – 1000	FOCUS EVENT: Innovation Match Game	W304EF
0830 – 1000	FOCUS EVENT: Accelerating Readiness through Digital Engineering	W309AB
0830 – 1000	COMMUNITY OF INTEREST: Simulation Standards: The Path to Seamless Interoperability for Multi-Domain Operations	W308C



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AGENDA

0830 – 1000	COMMUNITY OF INTEREST: Evolving Medical Training – Big Data, Multi-Domain Operations, and Prolonged Care	W304GH
0830 – 1200	PROGRAM BRIEF: PEO STRI TSIS Program Brief	W311ABCD
0930	EXHIBITS OPEN	EXHIBIT HALL
1030 – 1200	PAPER SESSIONS (TITLE/AUTHOR LIST BEGINS ON PAGE 90. SESSION SCHEDULES FOR THIS TIME FRAME ARE ON PAGE 89.)	ROOMS W307ABCD; W308B
1030 – 1200	SIGNATURE EVENT: Virtual Evaluation in Prototyping and Experimentation	W304GH
1030 – 1200	FOCUS EVENT: International Perspectives on Creating and Sustaining Learning Ecosystems in the Wild	W309AB
1030 – 1200	FOCUS EVENT: Evolving Distributed Mission Operations Joint DMO Panel	W310AB
1030 – 1200	IRON DEV AWARDS CEREMONY	W308A
1030 – 1200	COMMUNITY OF INTEREST: Human-Centered Artificial Intelligence in Training, Simulation, and Education	W308C
1030 – 1200	COMMUNITY OF INTEREST: Flying in the Metaverse: Certifying Extended Reality	W304EF
1030 – 1200	PROGRAM BRIEF: Navy Vision from Training Systems Program Managers	W304AB
1200 – 1330	LUNCH	EXHIBIT HALL
1300	SERIOUS GAMES SHOWCASE & CHALLENGE AWARDS CEREMONY	BOOTH 2588
1330 – 1500	PAPER SESSIONS (TITLE/AUTHOR LIST BEGINS ON PAGE 90. SESSION SCHEDULES FOR THIS TIME FRAME ARE ON PAGE 89.)	ROOMS W307ABC
1330 – 1500	COMMUNITY OF INTEREST: Information Warfare: Combating Disinformation Via Inoculation Training and Social Simulations	W308C
1500	EXHIBIT HALL AND REGISTRATION CLOSE	
1800	Hosted Reception Sponsored by Lockheed Martin	HYATT WINDERMERE BALLROOM
1900	Conference Awards Banquet	HYATT WINDERMERE BALLROOM
		Best Paper Award Presentation
		Best Tutorial Award Presentation
		I/ITSEC 2022 Scholarship Presentations
		• RADM Fred Lewis Postgraduate Scholarships
		• Leonard P. Gollobin Postgraduate Scholarships
		• CMSP Postgraduate Scholarship
		• Barbara McDaniel Undergraduate Scholarships
		Passing of the Flag for I/ITSEC 2023
		Post Dinner Entertainment and Networking

FRIDAY • 2 DECEMBER 2022

0800 – 1200	PROFESSIONAL DEVELOPMENT WORKSHOPS (SYNOPSIS ON PAGES 96 – 98)	LOCATION
	PDW 1: Harnessing the Power of Data Analytics to Optimize Training	W307A
	PDW 2: Live-Virtual-Constructive (LVC) Interoperability Techniques	W307B
	PDW 3: Distributed LVC Event Process	W307C
	PDW 4: Using Object Management Group's Data Distribution Service (OMG DDS) for Distributed Training Simulators	W307D
	PDW 5: Serious Game Design Work Shop	W308A
	PDW 6: Introduction to Mathematical Modeling for Analysts and Educators	W308B
	PDW 7: Certified Modeling and Simulation Professional 3.0	W308C
	PDW 8: VR Trainee Attention and Cognitive Load Assessment Using Headset Integrated Eye Tracking and Biophysiological Sensors	W308D

DRESS CODE

BRANCH

Air Force
Army

Marine Corps
Navy
Space Force
Coast Guard
Civilian

CONFERENCE AND GENERAL SESSIONS

Blues (*Short or Long Sleeve*)
Exhibit Floor/Attendees – ACUs or Duty Uniform
Panelist/Speakers – ASUs, Class A's
Service "C"
Service Khaki, Navy Service Uniform
Blues (*Short or Long Sleeve*)
Tropical Blue Long
Business Attire

BANQUET

Mess Dress or Semi-Formal
Army Blue (*Army Evening Mess Optional*)

Evening Dress (*Dress Blue "B" or Service "A" Optional*)
Dinner Dress White (*Service Dress White Optional*)
Mess Dress or Semi-Formal
Dinner Dress White (*Service Dress White Optional*)
Black Tie (*Optional*) or International Traditional Costume



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CHARITIES AT I/ITSEC

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 2021, the I/ITSEC community was able to contribute over \$8,000 to help our service members and we hope to contribute even more this year! The I/ITSEC 5K will be held Wednesday, 30 November at 0630 in front of the OCCC West Concourse, Hall D.



JUST OUR SOLDIERS HELPERS (JOSH)

Just Our Soldiers' Helpers (JOSH), is a woman-founded and led IRS-approved non-profit founded in 2011. The JOSH mission is to increase the morale of deployed U.S. service members from all branches of the military. They do this by providing care packages containing name brand items that are not readily available during deployment.

- JOSH is an all-volunteer organization; 87% of all funds go directly towards program-related expenses. less than 3% goes towards administrative costs.
- JOSH ships only full-size name-brand products.
- JOSH ships every month of the year to all the warfighters on their list.
- JOSH has shipped over 150,000 pounds of products to our warfighters since 2011.

I/ITSEC 2022 will be the inaugural year that the I/ITSEC community helps support JOSH. Onsite at the OCCC, during I/ITSEC 2022, volunteers and attendees will sort, pack, and ship 140 care packages to our service members around the world. We can accomplish this with help from our industry partners, we have made several support levels available so all can support. Packing will happen before I/ITSEC opens on Sunday, 27 November at approximately 1030 in Room 109 at the OCCC West Concourse.

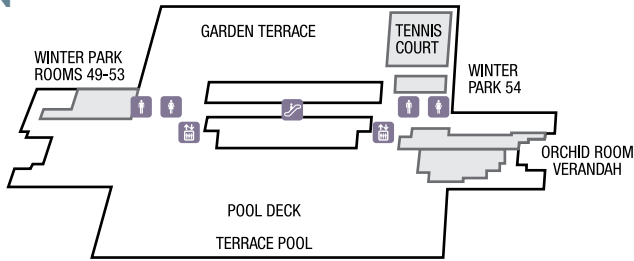




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HYATT REGENCY

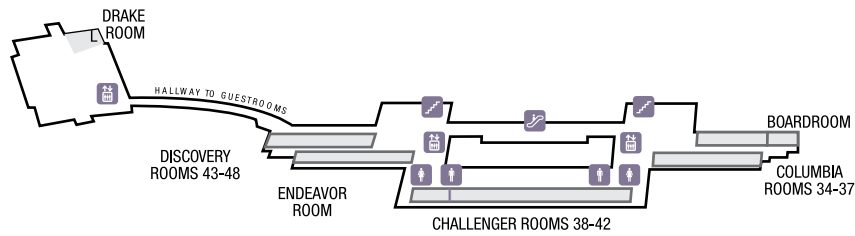
RECREATION LEVEL



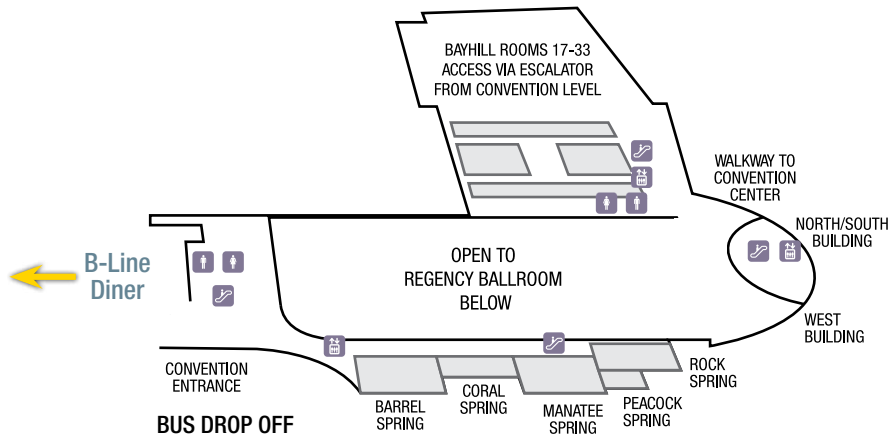
KEY

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

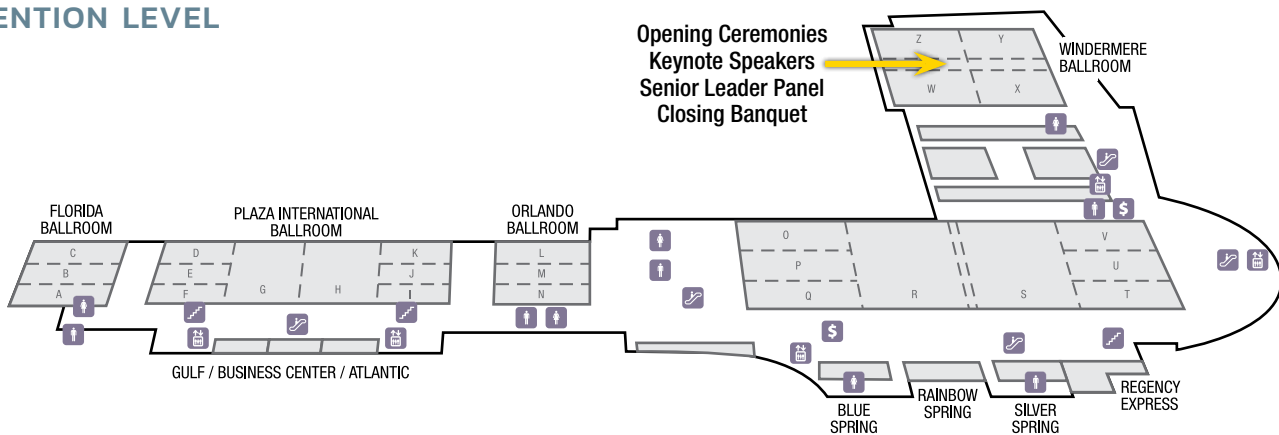
MEZZANINE LEVEL



ENTRY LEVEL



CONVENTION LEVEL





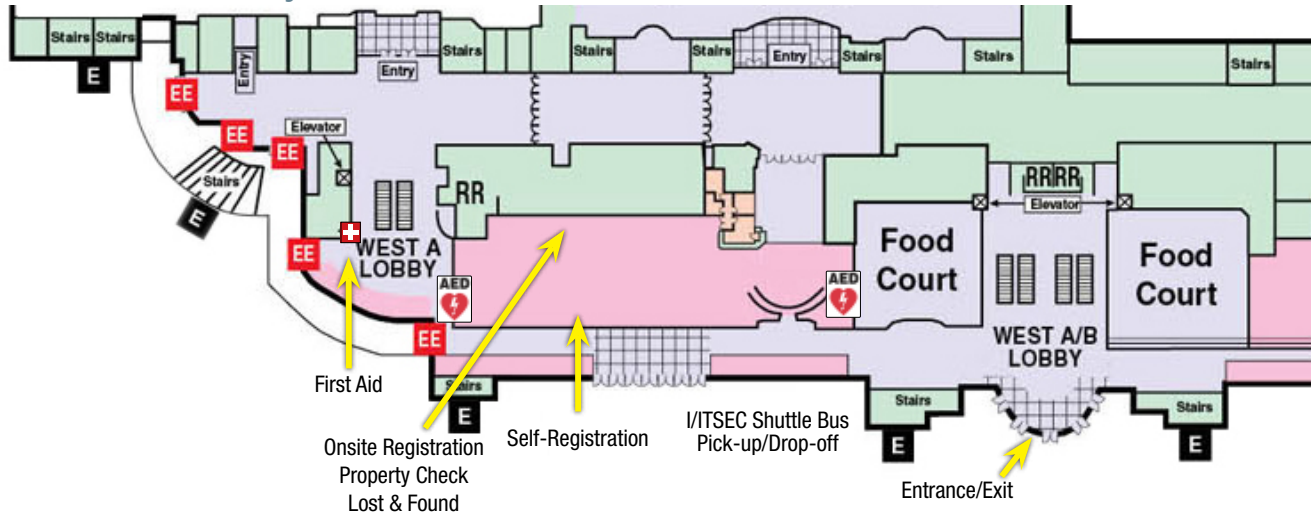
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CONVENTION CENTER

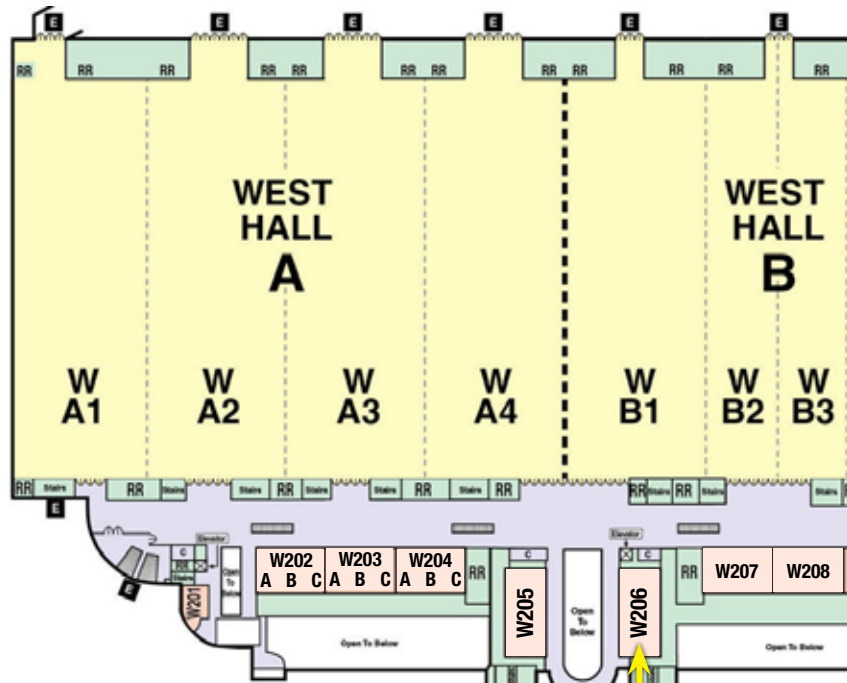
WEST CONCOURSE

ORANGE COUNTY CONVENTION CENTER • ORLANDO, FLORIDA

LEVEL 1 (Entry Level)



LEVEL 2



NTSA Show Management

LEVEL 3 (Presentations/Events/Practice Rooms)

