

Federal E-learning Science & Technology

iFEST

innovation • instruction • implementation



NTSA



iFEST 2022

New Paradigm of Learning: Partner and Prevail

16 – 18 August | Hilton Alexandria Mark Center
Alexandria, VA | ADLiFEST.org

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NDIA



NATIONAL TRAINING & SIMULATION ASSOCIATION (NTSA)

The National Training & Simulation Association (NTSA) is America's premier organization representing the interests of the modeling and simulation community worldwide. As such, it serves as a constant point of contact for government, academia, industry, research organizations and the military to exchange information, share knowledge, align business interests and in general stimulate growth and overall advancement of the industry. NTSA pursues these goals through a series of conference, meetings and exhibitions throughout the year. NTSA produces The Interservice/Industry Training, Simulation and Education Conference (I/ITSEC), which is the world's largest conference and exhibition dedicated to modeling and simulation. While NTSA primarily serves the North American community of practice, many of its members and participants are non-US. NTSA is a key member of the International Training and Simulation Alliance (ITSA), a worldwide group of simulation associations that promotes knowledge and information about training and simulation worldwide.



ADVANCED DISTRIBUTED LEARNING (ADL) INITIATIVE

The Department of Defense established the Advanced Distributed Learning (ADL) Initiative to support the development and adoption of a data-driven DoD-wide digital learning ecosystem. The ADL Initiative is a government program reporting to the Defense Human Resources Activity (DHRA), under the Director, DHRA. The technologies, standards, and policies that form the foundation of this ecosystem are now being demonstrated by multiple DoD stakeholders. The ADL Initiative's development of this ecosystem will enable the delivery of high-quality anytime and anywhere learning across an interconnected system-of-systems customized for the war fighter. The Total Learning Architecture (TLA), a driving factor in this ecosystem achieving learning system and data interoperability across the enterprise, has been a principal focus of iFEST.

EVENT INFORMATION

WI-FI

Network: HILTON_MEETING | Password: iFEST22

ATTIRE

Army: ACUs or Duty Uniform
 Marine Corps: Service "C"
 Navy: Service Khaki, Navy Service Uniform
 Air Force: Blues (Short or Long Sleeve)
 Coast Guard: Tropical Blue Long
 Civilian: Business casual

SURVEY & PARTICIPANT ROSTER

You'll receive a survey and list of attendees including names and organizations via email several days after the conference. Please complete the survey to make iFEST even more successful in the future.

MASK POLICY

Consistent with CDC guidelines as of 10 August 2022, masks are optional in areas of medium transmission for fully vaccinated or non-vaccinated individuals. Alexandria, VA transmission levels are medium and masks will be optional at iFEST 2022 for all attendees. If guidelines should change, we will notify all attendees.

SCHEDULE AT-A-GLANCE

TUESDAY, 16 AUGUST

Registration Open

Lower Foyer
 1200 – 1800

Exhibits Open

Lower Foyer
 1300 – 1900

General Session

Plaza Ballroom BC
 1330 – 1600

Concurrent Sessions

Plaza Ballrooms I-III, Beech A/B, Arbors
 1615 – 1700

Networking Reception

Lower Foyer
 1700 – 1800

War on the Rocks

**Reception Continues*

Terrace Room
 1800 – 1900

WEDNESDAY, 17 AUGUST

Registration Open

Lower Foyer
 0700 – 1730

Continental Breakfast

Lower Foyer
 0730 – 0830

Exhibits Open

Lower Foyer
 0800 – 1900

Concurrent Sessions

Plaza Ballrooms I-III, Beech A/B, Arbors
 0830 – 0915

General Session

Plaza Ballroom B/C
 0930 – 1130

Concurrent Sessions

Plaza Ballrooms I-III, Beech A/B, Arbors
 1145 – 1230

Lunch & Exhibit Time

Terrace Room and Lower Foyer
 1230 – 1330

General Session

Plaza Ballroom B/C
 1330 – 1445

Concurrent Sessions

Plaza Ballrooms I-III, Beech A/B, Arbors
 1500 – 1645

Ignite! Presentations

Plaza Ballroom B/C
 1700 – 1730

Professional Networking & Poster Reception

Lower Foyer
 1730 – 1900

THURSDAY, 18 AUGUST

Registration Open

Lower Foyer
 0700 – 1200

Continental Breakfast

Lower Foyer
 0730 – 0830

Exhibits Open

Lower Foyer
 0800 – 1200

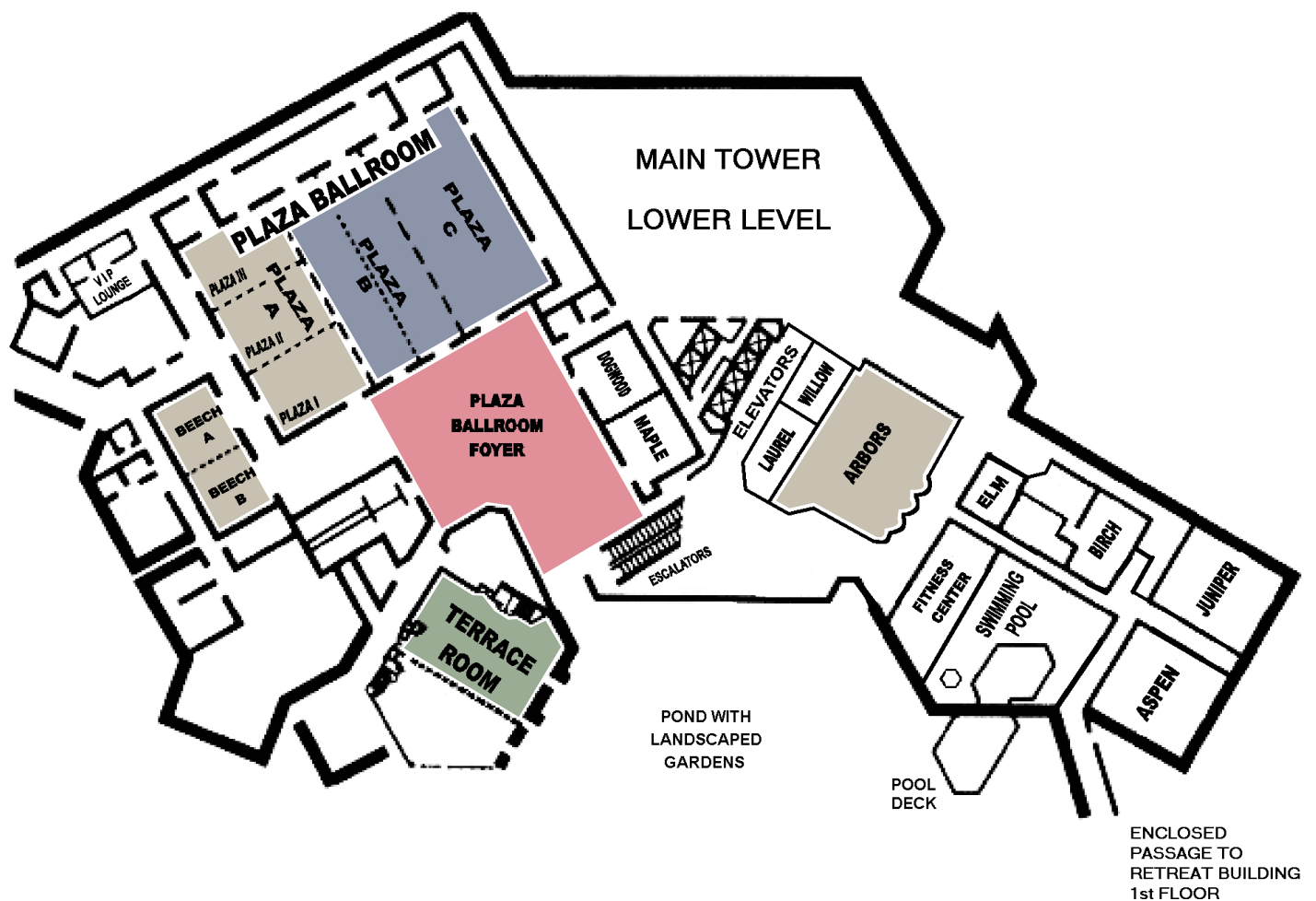
Concurrent Sessions

Plaza Ballrooms I-III, Beech A/B, Arbors
 0830 – 1015

General Session

Plaza Ballroom B/C
 1020 – 1200

HOTEL MAP



Registration, Breaks, Receptions, Exhibits, Posters
Plaza Ballroom Foyer

General Session
Plaza Ballroom B & C

Breakouts
Plaza I, Plaza II, Plaza III, Beech A & B, Arbors

Lunch
Terrace Room

AGENDA

TUESDAY, 16 AUGUST (ALL TIMES IN EASTERN TIME, UTC-4)

1200 – 1800 **REGISTRATION OPEN**
LOWER FOYER

1300 – 1900 **EXHIBITS OPEN**
LOWER FOYER

1330 – 1345 **OPENING CEREMONY & WELCOME**
PLAZA BALLROOM B/C

Angie Gamble, Ph.D.

Deputy Director, Training Support Analysis & Integration Directorate (TSAID), U.S. Army; iFEST 2022 Chair

1345 – 1430 **INDUSTRY KEYNOTE SESSION**
PLAZA BALLROOM B/C

Shawwna Hoffman

Chief Technology Leader, Legal Strategy & Operations, Dell Technologies

Angie Gamble, Ph.D.

Deputy Director, TSAID, U.S. Army; iFEST 2022 Chair

Moderator



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Advanced Distributed Learning (ADL) Initiative at

iFEST2022

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1430 – 1600

PANEL | MILITARY EDUCATION & TRAINING

PLAZA BALLROOM B/C

Defense leaders who oversee core components of the U.S. and Allied military training and education systems address the need to upskill and enhance the Total Force, and how the latest policies and technologies can enhance training and education.

RADM Peter Garvin, USN

Commander, Naval Education and Training Command

Brigadier-General Krista Brodie

Commander Military Personnel Generation Group,
Canadian Armed Forces

Kimberly Jackson, SES

Deputy Asst. Secretary of Defense for Force Readiness, DoD

William R. Mansell, SES

Director, Defense Support Services Center,
Defense Human Resources Activity, DoD

Celeste Ward Gventer, Ph.D.

President, Defense Security Cooperation University

Fred Engle

Director for Military Training, Office of the Assistant Secretary of
Defense for Readiness

Sae Schatz, Ph.D.

Outgoing Director, Advanced Distributed Learning
(ADL) Initiative
Moderator

1600 – 1615

NETWORKING BREAK & EXHIBIT TIME

LOWER FOYER

Refreshments Available

CONCURRENT TUTORIAL SESSIONS

1615 – 1700

Learner Focused Design: xAPI Enabled Adaptivity and Complex Skills Development

PLAZA I

Duncan Welder, IV
RISC, Inc.

Just In Time: AI-Driven Micro Learning for Everyone

PLAZA II

Alec Walker, Alan
Harris, and Jerry
Castanos
Growth Engine, Inc.

Using xAPI to Track Learning Experiences in Unity Projects

PLAZA III

Art Werkenthin
RISC, Inc.

Learning Experience Measurement (LXM)

BEECH A/B

Sydney Heimbrock,
Ph.D., Ryan
Twedell, Cydney
Miller, Sha'Reff
Rashad, and LtCol
Jill Leyden
Qualtrics

Meeting Learners' Expectations: A Survey-based Methodology for Quality Improvement

ARBORS

Alicia Sanchez,
Ph.D. and Judith
Bayliss, Ph.D.
Defense Acquisition
University

Deloitte.

Elevating Leadership

Creating a culture of learning is central to creating great leaders. At Deloitte, our learning and leadership professionals bring a breadth and depth of knowledge from our government and commercial practices. Let us help you accelerate succession planning and elevate the human experience.

deloitte.com/us/governmentlearning



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1700 – 1800 **NETWORKING RECEPTION & EXHIBIT TIME**
LOWER FOYER

1800 – 1900 **WAR ON THE ROCKS | FORMING THE FORCE:
LEARNING IN AN ERA OF GREAT POWER COMPETITION**

RECEPTION CONTINUES IN THE TERRACE ROOM

LtGen Michael Groen, USMC (Ret.)
Former Director, Joint Artificial Intelligence Center

Ryan Evans
Founder and CEO, War on the Rocks
Moderator

WEDNESDAY, 17 AUGUST (ALL TIMES IN EASTERN TIME, UTC-4)

0700 – 1730 **REGISTRATION OPEN**
LOWER FOYER

0730 – 0830 **CONTINENTAL BREAKFAST**
LOWER FOYER

0800 – 1900 **EXHIBITS OPEN**
LOWER FOYER

CONCURRENT ACTIVITY SESSIONS

0830 – 0915	Meeting the Challenges of Cybersecurity Education for DIB Small Businesses PLAZA I Ashley Hall, Ph.D. Parallax Advanced Research	Multi-Session Demonstration of Competency-Based Experiential-Learning Model for the U.S. Army Synthetic Training Environment (STE) PLAZA III Kevin Owens ARL: The University of Texas at Austin Benjamin Goldberg, Ph.D. U.S. Army DEVCOM Soldier Center, STTC Orlando Shelly Blake-Plock Yet Analytics Fritz Ray Eduworks Sanjay Mishra ORISE	Applying Artificial Intelligence (AI) to New Distributed Learning Challenges in the Post-Pandemic Era BEECH A/B Robert Sottolare, Ph.D. Soar Technology, Inc. Xiangen Hu, Ph.D. University of Memphis Evan Oster Aptima, Inc. Robby Robson, Ph.D. Eduworks	Educational Aspects of Organizational Development: Learning by Doing in Technology-Enabled Interventions ARBORS Tonya Henderson, D.M. ADL Initiative Phil Brown, Ph.D. Six Points Consulting

0915 – 0930 **NETWORKING BREAK & EXHIBIT TIME**
LOWER FOYER

Refreshments Available

0930 – 0935 **DAY TWO WELCOME**
PLAZA BALLROOM B/C

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

0935 – 1015 **GOVERNMENT KEYNOTE SESSION**
PLAZA BALLROOM B/C

The Hon. Beverly J. Seay
Southeast Regional Director, National Security Innovation Network

Frank Kelley
Vice President, Defense Acquisition University, BGen, USMC (Ret.)
Moderator

1015 – 1130 **PANEL | NEW PARADIGMS OF LEARNING: PARTNER AND PREVAIL**
PLAZA BALLROOM B/C

The panel will address the criticality of partnerships for meeting the demands of learners and employers alike, describe innovative and cutting-edge learning partnership models, and outline how new paradigms of learning need to evolve to meet the changing needs in the workplace.

Jason Strickland
Workforce PM – East Region, AWS Education to Workforce,
Amazon Web Services

Heather Haseley
Co-Executive Director, Learning Futures, Arizona State
University

Tim Quine, Ph.D.
Deputy Vice-Chancellor for Education, University of Exeter

Levent Yazar
Senior Director Strategic Partnerships, Wharton Interactive

Nunzio Quacquarelli
CEO and Founder, QS Quacquarelli Symonds
Moderator

Jerry (Yoram) Wind, Ph.D.
Emeritus Professor of Marketing, The Wharton School
Moderator



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CONCURRENT PRESENTATION SESSIONS

1145 – 1230	xAPI Solutions PLAZA I Session Chair: Andy Johnson, ADL Initiative	USC Institute for Creative Technologies Report PLAZA II	Integrating Immersive Technology PLAZA III Session Chair: Gigi Roman, NATO School Oberammergau	Shaping the Workforce through Data BEECH A/B Session Chair: Brent Smith, ADL Initiative	AI-Assisted Training in Practice ARBORS Session Chair: Florian Tolk, ADL Initiative
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xAPI Profiles in the DoD: The Mix of the Ideal and Reality
Jonathan Poltrack
Veracity Technology Consultants, LLC

USC ICT Update on DoD's Newest Learning Technologies
Keith Brawner, Ph.D.
University of Southern California (USC) Institute for Creative Technologies (ICT), a University Affiliated Research Center (UARC)

Training in the Metaverse: How the DoD is Setting the Standard
Victoria Claypoole, Ph.D., Krissa Watry, and Christina Padron
Dynepic, Inc.

Data and the Talent Marketplace
Jason Tyszko
U.S. Chamber of Commerce Foundation

AI-Assisted Curriculum Building in Minutes
Alec Walker, Alan Harris, and Jerry Castanos
Growth Engine, Inc.

Supporting Industry Adoption of xAPI Through Cohorts – 2014-2022 and Beyond
Megan Torrance
TorranceLearning

William Swartout
USC ICT and USC Viterbi School of Engineering

Arno Hartholt and David Cobbins
USC ICT

Tim Welch
Eduworks

Maj Jesse Johnson
AETC A9 Det 23

Margaret Merkle
AFLCMC WNS

Integrating Immersive and Augmented Training into the Metaverse
Claudia Escribano, Dolly Oberoi, and Ravi Garimella
C2 Technologies, Inc.

Training Management System – The Missing Link
J. (Jay) Bahlis, Ph.D.
BNH Expert Software

Closed Network xAPI
Paul Miller and Ilya Voloshin
LSI, Inc.

1230 – 1330

LUNCH & EXHIBIT TIME

TERRACE ROOM & LOWER FOYER

1330 – 1445

PANEL | SOFTWARE AND DATA FOR LEARNING

PLAZA BALLROOM B/C

Our learning ecosystem has been driven to new heights in the last two years. Propelled by the adoption of the virtual workforce, advancements in technology and methodologies, and new ways to capture and leverage data, learning and development are more agile than ever. Join leaders in the field as they discuss where we're headed as well as best practices for creating impactful learning and development programs.

Martin Dougiamas

Founder & CEO, Moodle (*Virtual*)

David Porcaro, Ph.D.

Vice President Learning, General Assembly

Russ Shilling

EVP for Research, Riiid Labs; Senior Advisor,
EdSAFE AI Alliance

Danny Williams

Technical Account Manager, Epic Games

Jason Briefel

Director of Policy & Outreach, Senior Executives Association
(SEA)

Moderator

xAPI IDEATION

Let us help bring your xAPI ideas to life and get the most out of your data.



<https://veracity.it>

1445 – 1500

NETWORKING BREAK & EXHIBIT TIME

LOWER FOYER

Refreshments Available

CONCURRENT PRESENTATION SESSIONS

<p>1500 – 1545</p> <p>Optimizing Outcomes with Immersive Technology PLAZA I</p> <p>Session Chair: Ashley Howell, ADL Initiative</p>	<p>Blended Learning in the New Normal and Metaverse PLAZA II</p>	<p>Design for Learners PLAZA III</p> <p>Session Chair: Fran Kassinger, Ph.D., U.S. Department of the Treasury & FGDLA</p>	<p>Upskilling Modernization BEECH A/B</p> <p>Session Chair: Tanja Geiss, NATO eAcademy</p>	<p>Competency Readiness ARBORS</p> <p>Session Chair: Andy Johnson, ADL Initiative</p>
<p>Distributed, Fully Immersive VR Medical Simulation Training for Team-Based Care Karthik Sarma, Ph.D., Jason Ribeira, Jennifer Polson, Michael Barrie, and Ryan Ribeira SimX, Inc.</p> <p>COL John Dorsch 24th SOW, USAF</p>	<p>Blended Learning in the New Normal and Metaverse Badrul Khan, Ph.D. Khan's Digital World TV Show on FOX 5 Plus DC</p> <p>Dolly Oberoi C2 Technologies, Inc.</p>	<p>The Holy Grail of Developing Partnerships for DL Dina Kurzweil, Ph.D., Linda Macaulay, Ph.D. and Karen Marcellas, Ph.D. Uniformed Services University of Health Sciences (USUHS)</p>	<p>Virtual Reality Training for NATO Operational Equipment Paul Thirkettle NATO ACT</p> <p>Sebastian Tampinongkol NCIA Academy</p>	<p>Multi-Source Formative Assessment System for Competencies Paul Thomas Center for Curriculum Redesign, Inc.</p> <p>Chris Dede, Ed.D. Harvard Graduate School of Education</p>
<p>Haptic and Virtual Reality Glove Comparison Madison Quinn and Shane Taber Engineering & Computer Simulations, Inc.</p>		<p>Instructional Design for Second Language Learning Sandy Wagner Defense Language Institute, FGDLA Member</p>	<p>JobSIDE: Transforming How Employers Improve and Share Skills Data for their Most In-Demand Jobs Jason Tyszko U.S. Chamber of Commerce Foundation</p>	<p>Shorten Time to Competency with Ready to Use Immersive Training Applications Heath Shatouhy Immerse Learning, Ltd.</p>
<p>Department of Veterans Affairs (VA) and the Department of Defense (DoD) Clinical Staff Partnership within the Virtual Medical Center Vaughn Cooper, Ph.D. Veterans Health Administration, FGDLA Member</p>			<p>"Alexa, Be My Tutor!" Voice Assistant Pilot Ann Wong, Ph.D., Qun Zhang, Ph.D., Pooja Mohaan, Alicia Sanchez, Ph.D., Shawn Miller, and Thomas Shaffner Defense Acquisition University</p>	<p>Building a Competency Model from a Learning Record Store Just Prior to New Learning Experiences Robert Sottolare, Ph.D., Amanda Bond, Jeremiah Folsom-Kovarik, Ph.D., and Henry Phillips, Ph.D. Soar Technology, Inc.</p>

1545 – 1600

NETWORKING BREAK & EXHIBIT TIME

LOWER FOYER

Refreshments Available

CONCURRENT PRESENTATION SESSIONS

1600 – 1645

Transforming DL in Military Training

PLAZA I

Session Chair:
Paul Thurkettle, NATO
ACT

PERLS in Practice

PLAZA III

Session Chair:
Deri Draper-Amason,
Ph.D., Old Dominion
University

xAPI Data in Action

BEECH A/B

Session Chair:
Fran Kassinger, Ph.D.,
U.S. Department of the
Treasury & FGDLA

Digital Learning Science

ARBORS

Session Chair:
Angie Gamble, Ph.D.,
TSAID, U.S. Army

ADL in Exercises – Guidance in a New Annex to the NATO ADL Handbook

Major Tohmas Ax and
Major Niclas Ljung
Swedish Armed Forces

Aaron Presnall, Ph.D.
Jefferson Institute

Paul Thurkettle
NATO ACT

Self-Regulated Learning and Adaptive Training in PERLS

Daniel Pfeiffer and Brian
Beverdors
Float, LLC

Thinking Outside the Learner Performance Box with xAPI Data

Jennifer Murphy, Ph.D.
Quantum Improvements
Consulting

Digital Learning Science

Tammy Bankus, Ph.D.
and William Brantley,
Ph.D.
Office of the Navy Inspector
General

Supporting Digital Transformation through Long-Term Faculty Development Programmes – A Case Study of the e-Instructor Certification Programme

Marcin Jozwiak
NATO DEEP eAcademy

Incorporating PERLS in the Enterprise Course Catalog

Brian Beverdors and
Daniel Pfeiffer
Float, LLC

Don't Just Give Me "All the Data" – xAPI and Training Effectiveness Evaluation

Jason Haag
Veracity Technology
Consultants, LLC

Towards a Model of Learning Engineering: The Pilot Process in the Air University Global College of PME

Rob Nyland, Ph.D.
Global College of PME, Air
University

Developing Airmen and Guardians with Games for Enhanced Readiness (DAGGER)

Matthew Correia
DAF-AETC-Air University-
Eaker Center

Robert Farrell, II, Ph.D.
Air University

David Benson, Ph.D.
School of Advanced Air &
Space Studies

1645 – 1700

NETWORKING BREAK & EXHIBIT TIME

LOWER FOYER

1700 – 1730

IGNITE! PRESENTATIONS

PLAZA BALLROOM B/C

The Case for Doubling Down on Open Edtech Infrastructure for the Future

Martin Dougiamas

Founder and CEO, Moodle (Virtual)

JEDx: Modernizing America's Jobs and Employment Data

Jason Tyszko

Vice President, U.S. Chamber of Commerce Foundation

J-NEXT: Strategically Rebalancing Joint-Combined SOF Education Across the Learning Continuum

Amie Lonas, Ed.D.

Provost, Joint Special Operations University

Bethany Fidermutz, Ph.D.

Education Consultant, Joint Special Operations University

Aaron Presnall, Ph.D.

President, Jefferson Institute

Moderator

1730 – 1900

PROFESSIONAL NETWORKING & POSTER RECEPTION

LOWER FOYER

Attendees may vote for People's Choice Awards for Best Narrative and Best Design.

Paul Thurkettle

Section Head, Training Technologies, NATO ACT

Master of Ceremonies

THURSDAY, 18 AUGUST (ALL TIMES IN EASTERN TIME, UTC-4)

0700 – 1200

REGISTRATION OPEN

LOWER FOYER

0730 – 0830

CONTINENTAL BREAKFAST

LOWER FOYER

0800 – 1200

EXHIBITS OPEN

LOWER FOYER

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IEEE LTSC

LEARNING TECHNOLOGY STANDARDS COMMITTEE

ENABLING BETTER LEARNING THROUGH GLOBAL TECHNOLOGY STANDARDS

PORTFOLIO INCLUDES

- xAPI P9274.1.1
- xAPI Profiles P9274.2.1
- xAPI Cybersecurity P9274.4.2
- Competencies P1484.20
- Learning Metadata P2881
- Learner Records P2997

GET INVOLVED TODAY

- Among the IEEE LTSC's portfolio are the core standards supporting ADL's Total Learning Architecture.
- We are a volunteer organization and our working groups are free to join and open to the public.
- Additionally, we sponsor ICICLE – the Industry Consortium on Learning Engineering.

For more see: sagroups.ieee.org/ltsc

Visit our table to discuss!

CONCURRENT ACTIVITY SESSIONS

0830 – 0915

**Microelectronics
Workforce
Development
– A Learning
Partnership Case
Study**

PLAZA I

David Rude, Ph.D.
and Edie Williams,
Ph.D.
Parallax Advanced
Research

**Delivering
Personalized
Learning at
Scale: A Human
Centered Approach
to Learning and
Development**

PLAZA II

Sydney Heimbrock,
Ph.D., Ryan
Twedell, Cydney
Miller, Sha'Reff
Rashad, and LtCol
Jill Leyden
Qualtrics

**Uncovering the
Technology
Challenges of
Moving Toward
a Modern,
Total Learning
Architecture-Centric
Ecosystem**

BEECH A/B

Tammy Rutherford
and Chris Tompkins
Rustici Software

**DISCOVER NSA
Innovative
Orientation**

ARBORS

Bridget Hilder
DoD

0915 – 0930

NETWORKING BREAK & EXHIBIT TIME

LOWER FOYER

Refreshments Available

CONCURRENT PRESENTATION SESSIONS

0930 – 1015

Holistic Focus on Military Readiness

PLAZA I

Session Chair:
Gigi Roman,
NATO School
Oberammergau

The Need for Civil Service Classification and Education Credentials Modernization

PLAZA II

Last Word on SCORM

PLAZA III

Session Chair:
Andy Smith,
ADL Initiative

Augmented Reality in Practice

BEECH A/B

Session Chair:
Florian Tolk,
ADL Initiative

Insights into the Future of DL

ARBORS

Session Chair:
Shawn Miller,
Defense Acquisition
University

Confluence of Learning Practice and Policy

LT Nicholas
Armendariz
Naval Aerospace
Medical Institute

The Need for Civil Service Classification and Education Credentials Modernization: DoD Training the Workforce of the Future, Today

Rob Seidner
edX/2U

Understanding Your Internal Stakeholders Needs: What to Ask Technology Vendors about eLearning Standards

Chris Tompkins
Rustici Software

Scaling AR Delivery Capability Across the Military to Enable Multi-Skilled Warfighters

Matthew Wren
BUNDLAR, LLC

Designing and Navigating E-Learning into Communities that Need Training Assistance Locally

Kevin Monaghan
E-Content Consulting

Danielle Mathis-Lee
FHWA

Tom Tatem
PTG, Intl

Top Trending Topics at the 2022 Army University Learning Symposium and their Implications for Military Readiness

Keith Beurskens,
DM
Office of the Provost,
Army University

Death to SCORM

Krissa Watry,
Victoria Claypoole,
Ph.D., and Christina
Padron
Dynepic, Inc.

Margaret Merkle
AFLCMC WNS

Using the 'Red Pill' to Conceptualize Training Optimization; Insights on Future Learning Ecosystems from 'The Matrix'

Regan Patrick,
Ed.D.
CAE

Creating Learning Opportunities for All

Soledad Alvarado
Ganzhorn and
Matthias Ledwon
SAP America

1015 – 1020 **5-MINUTE BREAK**

1020 – 1045 **ADL GLOBAL COMMUNITY: STRONGER TOGETHER**
PLAZA BALLROOM B/C
Aaron Presnall, Ph.D.
President, Jefferson Institute

1045 – 1130 **ADL IN CRISIS: REPORT FROM THE FRONTLINE**
PLAZA BALLROOM B/C
Col. Maksym Tyshchenko, Ph.D.
ADL Partnership Director, National Defence University of Ukraine
Aaron Presnall, Ph.D.
President, Jefferson Institute
Moderator

1130 – 1200 **CLOSING SESSION**
PLAZA BALLROOM B/C
Angie Gamble, Ph.D.
Deputy Director, TSAID, U.S. Army; iFEST 2022 Chair

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For more information, please visit **NSTA.org/CMSP** or contact Carol Dwyer at **cdwyer@NTSA.org**

POSTERS BY TOPIC AREA

ANNUAL TIMELY TOPIC – NEW PARADIGM OF LEARNING: PARTNER AND PREVAIL

Joint Special Operations University J-NEXT: Strategically Rebalancing Joint-Combined SOF Education Across the Learning Continuum Utilizing Outcomes-Based Military Education

Bethany Fidermutz, Ph.D., Joint Special Operations University
Amie Lonas, Ph.D., Joint Special Operations University

Learning Engineering At A Glance

Jim Goodell, QIP
Sae Schatz, Ph.D., ADL Initiative
Aaron Kessler, Ph.D., MIT

Using a Light-Weight Tutoring Architecture and COTS Software to Quickly Translate Three Tutors into Ukrainian

Frank Ritter, Ph.D. and Sarah Stager, Ph.D., Penn State
Jim Goodell, QIP
Ashley McDermott, Ph.D., WellBalance

LEARNING DATA

Managing the Learning Experience: A Learning Journey Map

Sydney Heimbrock, Ph.D., Qualtrics

Creating Learning Experiences by Cultivating AI Readiness through Data & Program Modernization

Samantha Lie-Tjauw, Margarita Gonzalez, Hannah Foster,
and Beth Davis, Georgia Tech Research Institute
Steve Fuss, Defense Civilian Personnel Advisory Service

LEARNING TECHNOLOGY

Rebuilding a Training Department by Creating a Learning Portal

William Brantley, Ph.D. and Tammy Bankus, Ph.D.,
Office of the Navy Inspector General

Synthetic Training Environment Experiential Learning for Readiness (STEEL-R)

Benjamin Goldberg, Ph.D., U.S. Army DEVCOM
Soldier Center, STTC Orlando

Empower CbAIS with xAPI

Xiangen Hu, Ph.D. and Keith Shubeck, Ph.D., The University of Memphis

Beyond SCORM: Delivering Dynamic & Personalized Courses

Aaron King, Blackboard, Now Anthology

Combining Microlearning, Spaced Learning, Gamification, Chatbots, Mobile Learning to Personalized Learning Experience

Harvey Singh, Instancy.com

PERLS – Self Regulated Learning & Adaptive Content Delivery: A Vital Part of the TLA

Daniel Pfeiffer and Brian Beversdorf, Float, LLC

TECHNOLOGY INTEROPERABILITY

xAPI Profiles & Business Logic

Shelly Blake-Plock, Yet Analytics

When to Migrate Legacy SCORM Content to cmi5

Brian Miller, Rustici Software

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NTSA LEADERSHIP



RADM JAMES A. ROBB, USN (Ret.)

President, National Training & Simulation Association

Rear Admiral Jim Robb is the President of the National Training & Simulation Association (NTSA).

NTSA is a non-profit corporation that provides a portfolio of events allowing the training, simulation and gaming industries to engage with national security markets. NTSA advocates the use of advanced simulation technologies, such as artificial intelligence, virtual reality and serious gaming, to support training, education and analysis. NTSA also runs the largest Training Systems Conference and Exposition in the world, I/ITSEC.

Before assuming his current position, Robb provided consulting and strategic planning services to large and small businesses in the defense market. He transitioned from the U.S. Navy in 2006, after a 34 year career in Naval Aviation where he deployed nine times across the globe, accumulated over 5,000 hours in the air, and survived over 1,000 carrier landings at sea. He is a recognized expert in training and simulation, having spent much of his Navy career instructing in fighter tactics and threat simulations. His notable training tours included flying captured Russian MIG fighters against U.S. forces in the Nevada desert and command

of the Navy Fighter Weapons School, also known as TOPGUN. Robb also commanded a fighter squadron, a carrier air wing and a carrier strike group.

Robb graduated from Rensselaer Polytechnic Institute with a BS in Mechanical Engineering, and from the University of West Florida with a Masters Degree in Aeronautical Systems.

iFEST CONFERENCE LEADERSHIP



ANGIE GAMBLE, PH.D. – iFEST 2022 CHAIR

Deputy Director, Training Support Analysis and Integration Directorate (TSAID), U.S. Army

Dr. Angie Gamble is a Department of the Army Civilian and has worked within the training and education

community since 2005. Gamble currently serves as the Deputy Director for the Training Support Analysis and Integration Directorate (TSAID) under the Combined Arms Center – Training (CAC-T), U.S. Army Training and Doctrine Command (TRADOC), Fort Eustis, VA. She manages and executes

program requirements integration for the Army Training Support System Enterprise (TSSE) in cooperation with the Department of the Army (DA) G 3/7 TRADOC to provide Training Support for the Army. She conducts training support analyses, manages fielded training aids, devices, simulators and simulations to include Graphic Training Aids and consolidated Training Support Systems (TSS) non-maintenance services, manages the Army Doctrine Training Publication Program (ADTPP), and leads

TRADOC Training Modernization efforts in coordination with Army Commands and Army Service Component Command (ASCC), HQ TRADOC, Army Futures Command (AFC), Centers of Excellence (CoE), and other key Stakeholders across the Army.

Prior to moving to Virginia, Gamble was the Chief of Faculty & Staff, Directorate of Training at the Cyber Center of Excellence, Fort Gordon, GA.



SAE SCHATZ, PH.D. – SENIOR GOVERNMENT ADVISOR

Outgoing Director, Advanced Distributed Learning (ADL) Initiative

Dr. Sae Schatz is an applied human-systems scientist, with an emphasis on human cognition and

learning, instructional technologies, adaptive systems, human performance assessment, and modeling and simulation. She is the Outgoing Director of the Advanced Distributed Learning (ADL) Initiative, a research and development program reporting to the Defense Human Resources Activity (DHRA), under the Director, DHRA. Before joining the government in 2015, Schatz led the authorship and execution of

the Marine Corps' Making Good Instructor Great course and accompanying instructor tool kit. She was also the chief scientist for the award-winning Border Hunter research effort and the Joint Staff J7's Blended Learning-Training project.

Schatz has worked with the defense training and education community for over 10 years. During that time her efforts frequently focused on ways to enhance individuals' higher-order cognitive skills (i.e., the mental, emotional, and relational skills associated with "cognitive readiness"). She has authored more than 50 peer-reviewed scholarly publications, led development

of three military textbooks, and received professional recognition for her publications and research, including best paper awards from the I/ITSEC and MODSIM conferences.

She also maintains close ties with her alma mater, the University of Central Florida. She formerly held an assistant professor position with the university, and previously taught courses in visual design, web design and development, modeling and simulation, and human-systems interaction.



KEITH BEURSKENS, DM – iFEST 2022 CONFERENCE CHAIR

Deputy, Directorate of Academic Affairs and Center for Teaching and Learning Excellence, Office of the Provost, Army University

Dr. Keith Beurskens is the Deputy, Vice Provost of Academic Affairs,

Beurskens entered civilian service in 2005. Prior to his current position, he established the School of Advanced Leadership and Tactics, Command and General staff College, and served in the Center for Army Leadership. He is the editor for the Journal of Military Learning, has edited two books of historical case studies of large-scale combat operations, and authored several articles.

Beurskens completed a 24-year military career that included assignments in combat engineer units, the Corps of Engineers, and as Professor of Military Science at the University of Illinois. Beurskens holds a Doctor of Management in Organizational Leadership and is married with five adult children and five grandchildren.

Army University. Beurskens was the lead author for the “Army University White Paper” and the “Strategic Business Plan for the Army University,” which led to the establishment of Army University in 2015.



AARON PRESNALL, PH.D. – iFEST COUNCIL OF CHAIRS

President, Jefferson Institute

Dr. Aaron Presnall is Founder and President of the Jefferson Institute, a non-partisan, not-for-

profit corporation. Presnall has 25 years of experience in leading transformational efforts in security sector reform across Europe. Before joining the Jefferson Institute, he served with the EastWest Institute for seven

years in Prague, then in Belgrade for three years as EastWest’s Regional Director of Southeast Europe.



FRANK KELLEY – iFEST COUNCIL OF CHAIRS

Vice President, Defense Acquisition University, BGen, USMC (Ret.)

Mr. Frank Kelley is the Vice President of Defense Acquisition University (DAU). In this position, he

reputation of DAU as the Department of Defense primary learning institution for acquisition. He oversees the development and expansion of acquisition curriculum and learning opportunities and the delivery of those learning assets throughout the five DAU regional campuses, the Defense Systems Management College, and the College of Contract Management. Prior to this assignment, Kelley served as the Deputy

Assistant Secretary of the Navy Unmanned Systems from October 2015 – June 2018. In this capacity, he was the principal advisor to the Assistant Secretary of the Navy for Research, Development and Acquisition on matters relating to unmanned systems across all domains – land, sea, and air. Kelley joined the civil service in 2015 following a 32-year career as a Marine.

is responsible for aligning DAU strategic plans to the goals of both the Secretary of Defense and Under Secretary of Defense for Acquisition and Sustainment, while continuing to build the outstanding

KEYNOTE BIOGRAPHIES

INDUSTRY KEYNOTE | TUESDAY, 16 AUGUST | 1345 – 1430 | PLAZA BALLROOM B/C



SHAWNNA HOFFMAN

Chief Technology Leader, Legal Strategy & Operations, Dell Technologies

Ms. Hoffman serves as the Chief Technology Leader for Legal Strategy & Operations at Dell Technologies. Prior to Dell Technologies, she was the ServiceNow Technology Workflows Manager and Predictive AIOps Federal Lead. She also spent a decade at IBM in Digital Transformation & Strategy in positions including Co-Leader of the Global Watson AI Legal Practice. She is a sought-after Artificial Intelligence and Blockchain Subject Matter Expert and has spoken at the UN at Blockchain for Impact (2018)

and the UN Data Forum (2020 and 2021). In September 2018, she was appointed as Chair of the U.S. Commodity Futures Trading Commission's (CFTC) Distributed Ledger Technology and Market Infrastructure Subcommittee for the 2018 - 2020 term. In October 2019, she testified in front of the CFTC on blockchain privacy and confidentiality. In March 2019, she testified in front of the CFTC on blockchain adoption. In June 2019, Congress submitted to the Congressional Record the paper she co-authored: "Diversity in Blockchain's Initial Review of Facebook's Project Libra." She has one published patent for Detecting Clusters and Relationships in Large Data Sets

(20180096047) and one pending patent for Method and System for Pattern-based Home Network Configuration (END820160894). She also co-authored the book eDiscovery Plain & Simple (ISBN-13:97814394079), is the co-founder of Women in eDiscovery, founded in 2007 and the co-founded Diversity in Blockchain in 2017. In 2017, she was awarded the Certificate of Leader Development in National Security and Strategy by the U.S. Army War College.

Hoffman's community service leadership includes co-founding and serving on the Board of Directors of the Community Hope Center of Osceola County, FL.

GOVERNMENT KEYNOTE – WEDNESDAY, 17 AUGUST | 0935 – 1015 | PLAZA BALLROOM B/C



THE HON. BEVERLY J. SEAY

Southeast Regional Director, National Security Innovation Network

Beverly Seay is the Southeast Regional Director for the National Security Innovation Network (NSIN), a program office within the U.S. Department of Defense. In this role, she is leveraging talent through new partnerships with major universities and the venture community to drive national security innovation.

Seay is a former entrepreneurial modeling and simulation defense industry senior executive with global experience and a Fortune 500 track record in domestic and global business operations. She brings to NSIN strong university ties and industry collaboration expertise in start-ups, turnarounds, high growth, and acquisitions.

Inducted into the National Center for Simulation Hall of Fame and selected every year as one of Florida's most influential business leaders by Florida Trend, Seay is a member of the University of Central Florida (UCF) Board of Trustees (2013-present) and served as Chair from July 2019 through June 2021. She is past chair of the Deans' Industry Advisory Boards at the University of Central Florida (UCF) College of Engineering and Computer Science and the Georgia Tech College of Computing. She is also chair of the board of Association of Governing Boards of Universities and Colleges (AGB) (2015-present).

As chair of the Florida Simulation Summit (2015-present), Seay works with the Orange County Mayor's office and the National Center for Simulation to increase awareness

of Modeling and Simulation technologies and their applications in industries such as healthcare, entertainment, transportation, education and defense.

In December 2020, Seay was recognized as i4 Business Magazine's 2020 Business Leader of the Year. In February 2021, she was recognized as Orlando Business Journal's Businesswoman of the Year. In November 2021, she was inducted into the Mid-Florida Business Hall of Fame.

Seay has a BS Mathematics and MS Computers, Information and Control Engineering from the University of Michigan.

SPEAKER BIOGRAPHIES

MILITARY EDUCATION AND TRAINING PANEL

RADM PETER GARVIN, USN

Commander, Naval Education and Training Command

Rear Admiral Garvin became the 20th commander of the Naval Education and Training Command on July 9, 2020, an enterprise level shore command of the U.S. Navy of more than 19,000 military and staff personnel. His extensive military career includes service with the “Pelicans” of Patrol Squadron (VP) 45, where he was the 1995 Association of Naval Aviation Pilot of the Year; department head with the “Mad Foxes” of VP-5; navigator aboard USS Kearsarge (LHD 3), where he served as flag navigator for the embarked Amphibious Squadron (PHIBRON) 6; executive and 59th commanding officer of the “Fighting Tigers” of VP-8; and commander of Patrol and Reconnaissance Wing (CPRW) 10. His shore assignments include flag lieutenant to Commander, Patrol Wings Atlantic (CPWL), Commander, Task Force (CTF) 84; instructor pilot at the P-3 fleet replacement squadron, VP-30; Washington placement officer at the Bureau of Naval Personnel (PERS 441); executive officer for the director, Operational Plans and Joint Force Development Directorate (J-7), Joint Staff; federal executive fellow at the Council on Foreign Relations; undersea warfare branch head in the assessments division (N81) and deputy director, unmanned warfare systems (N99), Office of the Chief of Naval Operations staff; and executive assistant to the vice chairman, Joint Chiefs of Staff. His decorations include the Defense Superior Service Medal, Legion of Merit (four awards), Defense Meritorious Service Medal, Meritorious Service Medal (two awards), Air Medal (two strike/flight) and various personal, unit and campaign decorations. He holds a BS in Aerospace Engineering (Astronautics) with merit from the U.S. Naval Academy (1989). He is also a 2005 graduate of the National War College, with a MS in National Security Strategy and a 2015 alumnus of the Massachusetts Institute of Technology Seminar XXI.

BRIGADIER-GENERAL KRISTA BRODIE

Commander Military Personnel Generation Group, Canadian Armed Forces

Brigadier-General Krista Brodie joined the Canadian Armed Forces in 1989. She is a graduate of Royal Roads Military College and was commissioned under the Regular Officer Training Program. During her time in the Canadian Army, she has commanded platoons, a company, and a battalion. Brodie has also commanded a Formation in the Canadian Joint Operations Command. She has been deployed to Croatia, Bosnia, and Afghanistan, and has served with both NATO and the United Nations. With qualifications as an aerial delivery specialist, she also earned American jump wings on exercise with the 2nd Battalion of the 75th Ranger Regiment (U.S). Brodie is married with three children.

KIMBERLY JACKSON, SES

Deputy Asst. Secretary of Defense for Force Readiness, DoD

Ms. Kimberly Jackson was appointed Deputy Assistant Secretary of Defense for Force Readiness in January of 2021. She is the principal advisor to the Secretary of Defense for Strategic and Operational Readiness of the Armed Forces.

Prior to this position, Jackson was an international and defense researcher at the RAND Corporation. During that time, she directed studies on the role of military culture in inter-service competition and the development of senior military officers, as well as the Department of Defense's evolving roles and capabilities in strategic competition. She also led research on topics including professional military education and talent management, special operations, security cooperation, and Reserve Component forces. Additionally, from 2019-2021, Jackson was a professor of policy analysis at the Pardee RAND Graduate School.

She served in several civilian positions throughout the Department of Defense, including Syria policy director, manager of various special operations and security assistance programs in the Office of the Under Secretary of Defense for Policy, a planner in three special operations commands, and a special assistant in the Pentagon's Cost Assessment and Program Evaluation Directorate. Additionally, from 2004-2006, Jackson was the military legislative advisor to U.S. Senator Mark Dayton, where she spearheaded legislation to create the National Guard and Reserve Yellow Ribbon Reintegration Program.

Jackson served as a Naval Reserve Officer until 2020 and held assignments within the Office of the Under Secretary of Defense for Intelligence, Naval Special Warfare, and in the Chief of Naval Operations' Strategic Studies Group. She holds a bachelor's degree in Journalism from the University of Minnesota as well as an MPP and MPH from the University of California, Berkeley.

WILLIAM R. MANSELL, SES

Director, Defense Support Services Center, Defense Human Resources Activity, DoD

Mr. William Mansell is a member of the Senior Executive Service and serves as the Director for the Defense Support Services Center (DSSC), part of the Defense Human Resources Activity. As Director, Mansell ensures critical support services are provided to the Department's military and civilian personnel that enhance national security, mission readiness, resiliency and reintegration. Mansell oversees the following Directorates: Advanced Distributed Learning Initiative, Defense Activity for Non-Traditional Education Support; Defense Language & National Security Education Office; Defense Personnel and Family Support Office; and the Defense Travel Management Office.

A native of Portsmouth, VA, Mansell graduated from Norfolk State University with a BS in Political Science. He subsequently attained an MA in Executive Development from Ball State University and

an MBA – Management Information Systems from Old Dominion University. He is also a graduate of the Army War College.

Mansell's career includes over 27 years of active duty service in the United States Army. He served as a Military Personnel and Information Systems Officer and commanded at company, battalion and brigade levels. He also served as the J5 Executive Officer for the United States Southern Command. His command assignments included the 417th Base Support Battalion in Kitzingen, Germany and the 1st Personnel Group at Fort Lewis, WA. Mr. Mansell's Department of Army Staff assignments included Deputy Chief of Staff Logistics, Information Management Officer and Deputy, and The Adjutant General. Mansell retired from the Army in 2003 as a Colonel.

Mansell's military awards include the Distinguished Service Medal, the Legion of Merit, the Bronze Star, the Defense Meritorious Service Medal, the Army Meritorious Service Medals with four oak leaf clusters, and various other awards and unit commendations. He is also the recipient of the Commander's Awards for Civilian Service.

CELESTE WARD GVENTER, PH.D.

President, Defense Security Cooperation University

Dr. Ward Gventer, Ph.D. is the President of the Defense Security Cooperation University (DSCU), a component of the Defense Security Cooperation Agency (DSCA) and the Department of Defense's Center of Excellence for Security Cooperation Education. DSCU oversees three key DSCA components: the School of Security Cooperation Studies, the Institute for Security Governance (ISG), and the Defense Institute of International Legal Studies.

She has been a national security professional for over two decades with service in government, academia, and the private sector, both in the U.S. and overseas. She most recently served in ISG's Advising and Consulting Division as a senior lecturer and regional program lead for Europe. She worked with several partner nations in the Balkans and Eastern Europe on institutional capacity building of their defense and security institutions. Gventer also worked as a subject matter expert for ISG and its predecessor organizations in Central and Eastern Europe, and was a defense organization and management advisor with AT Kearney in the UAE.

She was a 2020-2021 postdoctoral Fellow at the Albritton Center for Grand Strategy (CGS) at the Bush School of Government and Public Service at Texas A&M University. While at CGS, she worked as the Chief Knowledge Manager for the COVID Commission Planning Group. She also taught public policy and writing at the Lyndon B. Johnson School of Public Affairs at the University of Texas (UT) in Austin.

Gventer received a BA in Political Science from Stanford University, a Master of Public Policy from the Harvard Kennedy School, and a Ph.D. in History and Certificate in Cybersecurity from UT. Gventer has received the Global War on Terrorism Civilian Service Medal, the U.S. Army Superior Civilian Service Award, and the Secretary of Defense Medal for Outstanding Public Service.

FRED ENGLE

Director for Military Training, Office of the Assistant Secretary of Defense for Readiness

Fred Engle is the Director for Military Training in the Office of the Assistant Secretary of Defense for Readiness, Office of the Secretary of Defense. His responsibilities include policy and oversight of all Department of Defense collective military training and training capability modernization, to include live ranges and live-virtual-constructive (LVC) technologies. He leads the Defense-wide Operational Training Infrastructure Working Group focusing on rationalizing operational training challenges and training capabilities to restore readiness and support the objectives of the National Defense Strategy. Engle leads a team of government civilian and contractor subject matter experts responsible for analyzing training readiness and advocating for interoperable training across the military services and warfare domains. His responsibilities also include oversight of military cyber training, the Persistent Cyber Training Environment and advocacy for cyber training resources. He co-chairs the DoD Cyber Training Advisory Council and the NATO Training Group's Steering Group.

Engle is a retired U.S. Navy Master Chief Submariner with 30 years of active and reserve service specializing in integrated submarine and strike group operations. In 2015 he was awarded the Office of the Secretary of Defense Medal for Exceptional Civilian Service for his work on the Secretary of Defense Nuclear Enterprise Review. His military awards include two Defense Meritorious Service medals. Prior to assuming duties in the Department of Defense, Engle was a researcher at the Smithsonian Institution where he led satellite remote sensing projects. He was an instructor at George Mason University where he taught a writing intensive course on environmental policy in developing countries. He holds an AS degree in Marine Technology from Florida Institute of Technology, BA and MA degrees in Geography from the State University of New York at Albany, and he is a Fellow of the Royal Geographical Society in London. Engle also leads a technical SCUBA diving and maritime archaeology not-for-profit/non-governmental organization specializing in surveys of WWI and WWII Battle of the Atlantic wrecks.

WAR ON THE ROCKS

LTGEN MICHAEL GROEN, USMC (RET.)

Former Director, Joint Artificial Intelligence Center

Lieutenant General Michael Groen (U.S. Marine Corps, Ret.) served over 36 years in the U.S. military, culminating his career as the senior executive for AI in the Department. Groen also served in the National Security Agency overseeing Computer Network Operations, and as the Director of Joint Staff Intelligence, working closely with the Chairman and Senior Leaders across

the Department. He is an experienced Marine commander and multi-tour combat veteran. Groen earned Masters Degrees in Electrical Engineering and Applied Physics from the Naval Postgraduate School. He is an experienced change-agent—modernizing capabilities, organizations and cultures. He informs transformational change in military capabilities against the backdrop of an accelerating pace of digitally enabled warfare and rapidly modernizing opponents.

RYAN EVANS*Founder & CEO, War on the Rocks*

Mr. Evans is the founder of War on the Rocks, the publisher of the Texas National Security Review, and the CEO of Metamorphic

Media. He has worked at various think tanks in Washington and London, UK. He also worked as a deployed U.S. Army civilian in Afghanistan, as a part of the human terrain team assigned to the British-led Task Force Helmand.

NEW PARADIGMS OF LEARNING: PARTNER AND PREVAIL PANEL**JASON STRICKLAND***Workforce PM – East Region, AWS Education to Workforce, Amazon Web Services*

Mr. Strickland is a Workforce Program Manager with Amazon Web Services (AWS). In this position, he helps connect local and regional AWS employers in the East Region to authorized AWS Academy education institutions, enabling work-based learning experiences to help students qualify for local AWS cloud jobs. He is highly skilled at supervising the creation and delivery of complex technical training to diverse populations, and has demonstrated talent for designing and presenting curriculum regarding technical concepts, programming, computer repair, information security, and cloud computing. His academic experience includes serving as the Dean for Academic Affairs for Coastal Pines Technical College from 2016-2019, where he coordinated and supervised quality programs in the Technical and Industrial Division of Academic Affairs to meet the objectives of the college, and promoted instructional programs to public and private entities. He holds a bachelor's degree in information technology and a master's degree in information technology with a focus on information security from the American InterContinental University.

HEATHER HASELEY*Co-Executive Director, Learning Futures, Arizona State University*

Ms. Heather Haseley is an expert in educational technology, innovation, and entrepreneurship and technology transfer. She currently serves as the Co-Founder and Co-Executive Director of the Arizona State University (ASU) Learning Futures, a collaborative and studio that brings collaborative leaders, creative thinkers and innovative ideas together to design the futures of learning and advance equity and excellence in education systems. She also is a Lead Design Architect of ASU's Next Generation Learning. Haseley has presented at conferences and events around the world on learning innovation, immersive learning, digital credentials/skills development, learning design and program development. Before joining ASU, she served in leadership roles at UPenn, Northwestern, and Columbia University, fostering innovation in learning through the creation of new centers, programs, communities of practice, and learning experiences. Haseley holds a bachelor's in Philosophy at Northwestern University and earned a M.S.Ed in Education Entrepreneurship at the University of Pennsylvania Graduate School of Education.

TIM QUINE, PH.D.*Deputy Vice-Chancellor for Education, University of Exeter*

Professor Quine is the Deputy Vice-Chancellor (Education) and Professor of Earth Surface Science at the University of Exeter in the United Kingdom. Prior to taking on the Deputy Vice-Chancellor role in September 2015, he was the Academic Dean for Students having been the Associate Dean for Education for the College of Life and Environmental Sciences.

As the Deputy Vice-Chancellor, Quine is responsible for delivering the University's Education Strategy (2019-2025) with oversight of its implementation and monitoring through the Education Executive Group, providing regular reports to Senate and Council. The education strategy sets out Exeter's vision for teaching, learning and student experience for the next five years, identifying priorities focused on enhancing undergraduate and postgraduate provision, supporting and enabling educators, and responding to the opportunities presented by digital transformation. He is currently the sponsor of Project Enhance, which is facilitating the University's approach to maintaining educational opportunities and outcomes for students in response to the COVID-19 pandemic through the provision of a blended model of teaching and learning. He is a member of University Senior Management Group Senate and currently chairs the University's Education Executive Group. He has been an external examiner of undergraduate programs at three Russell Group Universities, and has examined Ph.D. theses at several UK and international Universities. He earned a BSc Archaeology from the Institute of Archaeology (UCL) at the University of London and holds a Ph.D., in Archaeology from the University of Strathclyde.

LEVENT YARAR*Senior Director Strategic Partnerships, Wharton Interactive***NUNZIO QUACQUARELLI***Founder and CEO, QS Quacquarelli Symonds*

Mr. Nunzio Quacquarelli is CEO of QS Quacquarelli Symonds, a UK company specializing in the analysis of higher education institutions around the world, which he founded as a student project at The Wharton School of Business. QS is the world's leading provider of services, analytics, and insight to the global higher education sector, whose mission is to enable motivated people anywhere in the world to fulfill their potential through educational achievement, international mobility, and career development. Quacquarelli currently leads a team of over 350 people from 30 different countries in offices around the world, and ensures that all sections of the business

meet social enterprise objectives which includes engaging the higher education community with the latest in education technology through the Wharton-QS Stars Reimagine Education Awards and Conference which he has co-chaired since 2014. As part of his commitment to the QS mission, Quacquarelli established a not-for-profit foundation, QS Education Trust, which provides merit-based scholarships for less privileged future leaders to gain access to higher education. Before starting his own business, he worked in strategy consulting in the UK and Italy. In 2010, he was selected as one of the 'top 50 business leaders under 50' by Diversity MBA magazine in the USA. Quacquarelli has an MA from Cambridge University and an MBA from The Wharton School, University of Pennsylvania, where he won the Glockner Prize for Management.

JERRY (YORAM) WIND, PH.D.

Emeritus Professor of Marketing, The Wharton School

Professor Jerry Wind is known for pioneering research on organizational buying behavior, market segmentation, conjoint analysis, and marketing strategy. He consults with major firms around the world, provides expert testimony in intellectual property cases, and has lectured in over 50 universities worldwide. He is

a highly-cited author in marketing, and is a regular contributor to the professional marketing literature, with 30 books and more than 300 research papers, articles and monographs on marketing strategy, marketing research, new product and market development, consumer and industrial buying behavior and international marketing. Over the years, he has served as editor-in-chief of the Journal of Marketing, the policy boards of the Journal of Consumer Research and Marketing Science, and on the editorial boards and as guest editor of special issues of the major marketing journals. He led the creation of the Wharton Executive MBA Program (1974) and was founding director of both the Joseph H. Lauder Institute (1983-1988) and Wharton International Forum (1987). He led the reinvention of the Wharton MBA curriculum (1991-93) and the development of the Wharton globalization strategy (1995-1997). In 1994, he co-founded Reichman University, the first private, non-profit university in Israel formerly known as The Interdisciplinary Center (IDC) Herzliya. Wind has taught MBA courses in marketing strategy, marketing methods and applications for business consulting, Creativity and Interactive Marketing in the Age of the Empowered Consumer and numerous executive education programs. Professor Wind received his Ph.D. from Stanford University in 1967, and his MA and BS degrees from The Hebrew University in Jerusalem.

SOFTWARE AND DATA FOR LEARNING PANEL

MARTIN DOUGIAMAS

Founder and CEO, Moodle

Mr. Martin Dougiamas is the founder and CEO of the open-source Moodle software project launched in 1999. He continues to guide and grow the enterprise with the support of 80 employees globally and two major offices in Perth, Australia and Barcelona, Spain. Moodle LMS (Learning Management System) is Moodle's best-known product, allowing educators to create a private space online filled with tools for collaborative learning for K-12, higher education and workplaces. First released in 2001, the Moodle LMS is now used in every country around the world by an active community of hundreds of millions of users and is key infrastructure for over 60 percent of all higher education institutions worldwide. Moodle LMS is one of a complete suite of open products, including Moodle Apps (for offline and mobile use), MoodleCloud (a SaaS hosting platform with 38,000 Moodle sites), MoodleNet (a new social network for educators), Moodle Educator Certifications (to teach digital competencies), and Moodle Workplace (a special version of Moodle LMS focussed on learning in the workplace). Dougiamas has a mixed academic background with multiple post-graduate degrees in computer science and education and two honorary doctorates. He continues to focus on researching how open education technology can best support teaching and learning in open and human ways, with a keen interest in helping to produce a generation that can meet the UN's sustainable development goals. Recently, Dougiamas started a new initiative, OpenEdTech.global, which he hopes will encourage open source companies to work collaboratively to provide complete, high-quality, ethical, lasting educational technology solutions to power education into the future.

DAVID PORCARO, PH.D.

Vice President Learning, General Assembly

Dr. David Porcaro is the Vice President of Learning and Innovation for the General Assembly (GA), a private, for-profit education organization founded in early 2011 to teach practical technology skills to entrepreneurs and business professionals throughout the world. In this role, he leads GA's learning design, instruction, research, and innovation functions, working to ensure that GA products and programs deliver measurable impact for diverse learners globally. He most recently served as Director of Learning Engineering at the Chan Zuckerberg Initiative from 2019-2021. He also served as Director of Education at Alef Education in Abu Dhabi and Director of Learning Design for Pearson, where he led a team of learning designers in creating research-based global technology products, including learning tools and capabilities, adaptive technologies and digital courseware across Pearson's global portfolio. He has taught, consulted, and designed learning experiences across Europe, the Middle East and Africa, North America, and the Pacific. He has a Ph.D. in Learning Design and Technology from the University of Georgia, an MPhil in Oriental Studies from Cambridge University, and a Bachelor of Arts in Near Eastern Studies from Brigham Young University.

RUSS SHILLING

EVP for Research, Riid Labs & Senior Advisor, EdSAFE AI Alliance

Dr. Russ Shilling is a former Navy Captain, experimental psychologist, and program officer who has leveraged technology to revolutionize training, education, and psychological health. He currently serves as the Executive Vice President for Research at Riid Labs and a senior advisor for the EdSafe AI Alliance, a

non-for-profit consortium that provides global leadership for the development of a safer, more equitable, and more trusted education ecosystem of artificial intelligence (AI) innovation. Previously, he served as the Senior Vice President for Government Solutions and Policy at Riiid Labs, leading strategy, programs, and partnerships to leverage Riiid's strengths in AI and innovation to revolutionize education and training across the government and provide 21st-century learning opportunities to military members and veterans. Dr. Shilling's experience includes leading innovative programs at the Defense Advanced Research Projects Agency (DARPA) on the use of AI and affective computing to address psychological health problems, and both writing and lobbying extensively on the need for DARPA for Education (ARPA-ED). From 2017-2018, he was a Senior Innovation Fellow at Digital Promise where he co-created the Advanced Education Research and Development Fund (AERDF), a \$50M educational technology Research & Development fund modeled on DARPA to tackle intractable teaching and learning challenges that disproportionately affect students of all races experiencing poverty. In 2014, he joined the Obama Administration as the Executive Director of STEM Initiatives at the U.S. Department of Education. In this position, he coordinated efforts across 60+ STEM priorities at the DoD and numerous federal agencies. Dr. Shilling was an early pioneer in serious games and virtual reality, and developed games for STEM education and psych health, and award-winning programs with Sesame Workshop to help military children cope with deployments, injury, and grief.

DANNY WILLIAMS

Technical Account Manager, Epic Games

Mr. Danny Williams has worked in the simulation and training industry for over 20 years. He is currently the Technical Account Manager for Simulation at Epic Games where he helps customers build training applications on Epic's Unreal Engine. He joined Epic in January 2021 to work with the simulation team to raise awareness and facilitate adoption of the Unreal Engine in the simulation and training industry. Prior to joining Epic, he worked for eight years at MAK Technologies where he helped capture the STE Common Synthetic Environment Program. Mr. Williams started his career in simulation at BAE Systems from 2001-2005 which included working on the Future Combat Systems program. In 2005, he moved to the Johns Hopkins University Applied Research Lab developing training systems for the U.S. Navy and the Department of Homeland Security.

JASON BRIEFEL

Director of Policy & Outreach, Senior Executives Association (SEA)

IGNITE! PRESENTATION – THE CASE FOR DOUBLING DOWN ON OPEN EDTECH INFRASTRUCTURE FOR THE FUTURE

MARTIN DOUGIAMAS

CEO and Founder, Moodle

See biography on Page 24.

IGNITE! PRESENTATION – JEDX: MODERNIZING AMERICA'S JOBS AND EMPLOYMENT DATA

JASON TYSZKO

Vice President, U.S. Chamber of Commerce Foundation

Mr. Jason Tyszko is Vice President of the Center for Education and Workforce at the U.S. Chamber of Commerce Foundation. Through events, publications, and policy initiatives, the Center for Education and Workforce – in partnership with Chamber members and business leadership— the Foundation seeks to cultivate and develop innovative thinking that spurs action to preserve America's competitiveness and enhance the career readiness of youth and adult learners. Tyszko's prior experience focused on coordinating interagency education, workforce, and economic development initiatives. In 2009, he served as a policy adviser to Illinois Gov. Pat Quinn's administration and as a member of the Executive Committee that directed more than \$10 billion in investments to aid in the state's recovery. While in the Office of the Governor, Tyszko chaired the interagency Job Training Working Group and developed Illinois Pathways, the signature public private STEM education strategy included in the state's Race to the Top proposal.

In addition, Tyszko was Deputy Chief of Staff and Senior Policy Adviser to the Illinois Department of Commerce and Economic Opportunity. There he oversaw the design and launch of the STEM Learning Exchanges, an innovative network of statewide public-private partnerships tasked with coordinating planning and investing to support regional STEM education and workforce programs. He further provided lead staff and policy support to the Illinois Workforce Investment Board.

Tyszko also managed innovative technology projects. This included the build-out of integrated education and workforce statewide longitudinal data systems and the implementation of the Illinois Shared Learning Environment, a transformative learning management system that enables personalized learning through integrated data in a cloud environment.

Tyszko received his MA from the University of Chicago and his Bachelor of Arts from DePaul University. He is a certified teacher in the state of Illinois. Tyszko resides in Washington, D.C.

IGNITE! PRESENTATION – J-NEXT: STRATEGICALLY RE-BALANCING JOINT-COMBINED SOF EDUCATION ACROSS THE LEARNING CONTINUUM

AMIE LONAS, ED.D.

Provost, Joint Special Operations University

Dr. Amie Lonas is the Provost of the Joint Special Operations University (JSOU). She serves as the Chief Academic Officer, overseeing and managing the University's components that directly support the teaching and learning, research and analysis, and service and outreach responsibilities. Prior to arriving at JSOU, Lonas served as the Dean of Faculty and Academic Programs at the Joint Forces Staff College, overseeing two Joint Professional Military Education II programs, one of which awarded a master's degree. Lonas previously served as the Director of Schools for Franklin County, Tennessee, and prior to this position, she served for five years at the JSOU where she held the position of Dean of Academics and Acting Vice President for Academic Affairs. A native of Dayton, TN, Dr. Lonas completed her Ed.D. at Vanderbilt University, specializing in Educational Leadership. Dr. Lonas also served as an Air Force officer in the Tennessee Air National Guard.

BETHANY FIDERMTZ, PH.D.

Education Consultant, Joint Special Operations University

Dr. Bethany Fidermtz is an education consultant working with the Joint Special Operations University (JSOU). Her efforts support the strategic rebalance of Special Operations Forces education in response to the changing global geopolitical competition arena and new National Defense Strategy priorities. Fidermtz served as Director of the Institutional Research, Assessment, and Accreditation Division at Joint Forces Staff College, National Defense University. Further, she has advised the Joint Staff on topics related to outcomes-based military education, assessments, and joint acculturation. Outside of the DoD, Fidermtz has been employed with Virginia Beach Public Schools, first as a Program Evaluation Specialist, and then as Acting Director of the Office of Research and Evaluation. Fidermtz is originally from upstate NY, where she earned both an MS in Educational Psychology & Methodology and a Ph.D. in Educational Psychology from the University at Albany, State University of New York.

ADL GLOBAL COMMUNITY: STRONGER TOGETHER

AARON PRESNALL, PH.D.

President, Jefferson Institute

See biography on Page 19.

ADL IN CRISIS: REPORT FROM THE FRONT LINE

COL. MAKSYM TYSHCHENKO, PH.D.

ADL Partnership Director, National Defence University of Ukraine

Col. Maksym Tyshchenko is the Head of the Advanced Distributed Learning Scientific Centre, a structural unit of the National Defence University of Ukraine named for Ivan Cherniakhovskyi, the youngest general to serve in the Soviet Army. The purpose of the Advanced Distributed Learning Scientific Centre is to implement advanced distributed learning (ADL) technologies into the educational process

of the Armed Forces of Ukraine. His research and educational activities focus on the implementation of ADL in military training. Col. Tyshenko is a member of several international working groups dedicated to using information technologies in military education and training, and is the Director of the Ukrainian Partnership Centre of the Advanced Distributed Learning Partnership Network under the Advanced Distributed Learning Initiative. Tyshchenko holds a Ph.D. in Technical Sciences and is the author of numerous publications on information technologies and e-Learning.



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PRESENTER BIOGRAPHIES

SOLEDAD ALVARADO GANZHORN

Senior Vice President – Head of Leadership Development, SAP

Presentation Title: Creating Learning Opportunities for All

LT NICHOLAS ARMENDARIZ

Aerospace Experimental Psychologist, Naval Aerospace Medical Institute

Presentation Title: Confluence of Learning Practice and Policy

Nicholas Armendariz is pursuing his Ph.D. in Modeling & Simulation through the School of Modeling, Simulation, and Training at the University of Central Florida. His focus during this pursuit is on the improvement of training and education through the utilization of understandings found in the cognitive sciences. Armendariz has a BS in Agricultural Education and a Master of Education degree that focused on Adult Education, both from North Carolina State University. He served as a Naval Flight Officer in the EA-6B platform with the U.S. Marine Corps, as well as a Training and Education officer where he facilitated policy and plans for Training and Education Command. He currently serves as the Department Head of Operational Psychology at the U.S. Naval Aerospace Medical Institute as an Aerospace Experimental Psychologist. He also has completed a Graduate Certificate in Cognitive Science.

MAJOR TOHMAS AX

Project Manager, Swedish Armed Forces

Presentation Title: ADL in Exercises – Guidance in a New Annex to the NATO ADL Handbook

Major Tohmas Ax is a Program Manager at the Swedish Armed Forces Development Unit for Leadership and Pedagogy (FMLOPE). Ax started his career as a flight engineer in the Swedish Air Force. After 16 years of technical service, he shifted posting to the Military Academy in Halmstad. After a few years as headteacher in military technology as well as in pedagogy he then 2009 joined FMLOPE. Ax has since then been involved in numerous projects regarding pedagogical development. This has given him broad experience in the procurement of systems, course production, and in recent years also in how to use Advanced Distributed Learning in exercises for a better ROI.

J. (JAY) BAHLIS, PH.D.

President, BNH Expert Software

Presentation Title: Training Management System – The Missing Link

J. (Jay) Bahlis, Ph.D., P. Eng. is the president of BNH Expert Software. He has lead the training analysis of multiple large-scale military projects; assisted dozens of organizations in developing effective and efficient training strategies, and aligning training with missions/goals; evaluated several eLearning technologies; directed research on adult learning theory; and managed the design/development of the Training Management System ADVISOR Enterprise. He holds a Doctorate in Engineering and Applied Mechanics from McGill University.

TAMMY BANKUS, PH.D.

Director, Training and Certification (IG80), Office of the Navy Inspector General

Presentation Title: Supporting a Certification Program through Digital Learning Science

Dr. Tammy Bankus is the Director for Training and Certification Division at the Naval Inspector General Office. Previously, she worked in various training and education-related areas for the Army for over 14 years and has more than 25 years of combined experience in psychology and education. Bankus has a passion for learning and holds a Ph.D. in instructional design and technology, curriculum and instruction from Old Dominion University, an Ed.S in educational psychology and instructional technology with additional emphasis in gifted education, special education, and statistics, a M.Ed in Adult Education from the University of Georgia, and a M.S. in psychology, along with achieving Executive Leadership Certificates from Massachusetts Institute of Technology (MIT) and the University of Virginia (UVA). Bankus is a strong supporter of evidence-based learning innovation and believes in the need to push our limits as we fully embrace future possibilities.

KEITH BEURSKENS, DM

Deputy, Directorate of Academic Affairs and Center for Teaching and Learning Excellence, Office of the Provost, Army University

Presentation Title: Top Trending Topics at the 2022 Army University Learning Symposium and their Implications for Military Readiness

See biography on Page 19.

BRIAN BEVERSDORF

Lead Developer, Float, LLC

Presentation Title: Incorporating PERLS in the Enterprise Course Catalog

Brian Beversdorf is a Lead Developer at Float. He earned his B.S. in Electrical Engineering and a M.S in Computer Science from the University of Illinois. His deep understanding of web and mobile application development has allowed him to provide solutions for industry leaders. He has helped architect, develop, and manage SaaS web and mobile applications. He has extensive knowledge of a number of open and proprietary software standards in various languages and platforms. Beversdorf's expertise has helped foster an agile environment and improve CI/CD processes for applications. This has helped Float's team build apps with speed and confidence.

SHELLY BLAKE-PLOCK

CEO and Co-Founder, Yet Analytics, Inc.

Poster Title: xAPI Profiles and Business Logic

Shelly Blake-Plock is Co-Founder, President, and CEO of Yet Analytics, Inc. He is an officer of the IEEE Learning Technology Standards Committee and is chair of the LTSC Technical Advisory Group on xAPI as well as the P9274.4.2 working group on xAPI

Cybersecurity. He is past-chair of the IEEE IC Industry Consortium on Learning Engineering and currently serves as vice-chair on the P2997 working group on Enterprise Learner Records and on the P2247.3 project on AI Ethics for Adaptive Instructional Systems.

WILLIAM BRANTLEY, PH.D.

Training Specialist, Office of the Navy Inspector General

Poster Title: Rebuilding a Training Department by Creating a Learning Portal

Dr. Bill Brantley works in the U.S. Navy Inspector General Office as a Training Specialist, leading the transformation to cutting-edge hybrid learning. Dr. Brantley was awarded the 2019 Emerging Training Leader by Training Magazine and is a Certified Professional in Talent Development, an ROI-certified professional, and a Certified Professional in Training Management. Brantley is an adjunct faculty member for the University of Louisville (20+ years) and the University of Maryland (8+ years). He is the author of "The Persuasive Project Manager" (2019) and "Four Scenarios for the Future of the Federal Government" (2019).

KEITH BRAWNER, PH.D.

Acting Program Manager, University of Southern California (USC) Institute for Creative Technologies (ICT), a University Affiliated Research Center (UARC)

Presentation Title: ICT Update on DoD's Newest Learning Technologies

Keith Brawner, Ph.D. is the Acting Program Manager for the Institute for Creative Technologies University, an Affiliated Research Center at the University of Southern California (ICT UARC @USC) for U.S. Army Combat Capability Development Command Soldier Center at the Simulation and Training Technology Center (CCDC-SC @ STTC), and a co-creator of the Generalized Intelligent Framework for Tutoring (GIFT). He has 16 years of experience within U.S. Army and Navy acquisition, development, and research agencies. He holds a Masters and Ph.D. degree in Computer Engineering with a focus on Intelligent Systems and Machine Learning from the University of Central Florida. His current efforts involve the management of the DoD-level UARC and the artificial intelligence efforts for the CCDC-SC, with an emphasis on the Synthetic Training Environment simulation.

VICTORIA CLAYPOOLE, PH.D.

Manager, New Horizons, Dynepic, Inc.

Presentation Title: Training in the Metaverse: How the DoD is Setting the Standard

Dr. Victoria L. Claypoole is the manager of New Horizons at Dynepic, Inc. With previous experience at the Air Force Research Lab and her current work with various DoD agencies, Claypoole's research interest lies at the intersection of increasing warfighter readiness and advancing scientific knowledge. Claypoole has worked across many sectors, including academia, government, and industry. Her previous work has examined how individual differences and social cues can improve attention and enhance enemy threat detection. Currently, her work is centered on leveraging emerging technology to develop next-generation training and operational support for the warfighter - including developing the first iteration of the military Metaverse. Claypoole has earned numerous professional awards,

including the University of Florida's 40 under 40, the University of Central Florida's 30 under 30, and several Best Paper awards at various conferences, including Best Paper for the Emerging Concepts and Innovative Technologies Subcommittee at I/ITSEC. She received a Ph.D. in Human Factors and Cognitive Psychology and a Master's in Modeling and Simulation from the University of Central Florida.

DAVID COBBINS

Project Manager and Principal Investigator, USC Institute for Creative Technologies UARC

Presentation Title: USC ICT Update on DoD's Newest Learning Technologies

David Cobbins is an award winning writer, producer and content developer. He is a former U.S. Army Non-Commissioned Officer and holds a Master's Degree from USC's School of Cinematic Arts. Cobbins has previously worked for the Department of Veteran Affairs and Warner Brothers Studios. He currently serves as a Project Manager and Principal Investigator at the Institute for Creative Technologies, with an emphasis on interactive narratives for intelligent tutoring, such as the Emergent Leader Immersive Training Environment (ELITE) system for leadership training and the Digital Interactive Victim Intake Simulation (DIVIS) system for Sexual Harassment and Assault Response and Prevention (SHARP) training.

VAUGHN COOPER, PH.D.

Associate Director, Veterans Health Administration

Presentation Title: Department of Veterans Affairs (VA) and the Department of Defense (DoD) Clinical Staff Partnership within the Virtual Medical Center

Vaughn Cooper, Ph.D. is an Associate Director in the Veterans Health Administration's Employee Education System's eLearning Division. Vaughn leads the eLearning Learning Solutions Team in their performance of project management, development, and implementation of web-based learning products. During Cooper's 14 years with the Department of Veterans Affairs, he has led teams as a Project Manager as well as an Instructional Designer delivering national web-based learning products of varying scope, size and complexity. In 2020, Vaughn was a VA Congressional Fellow and served as a policy advisor to a member of the U.S. Congress.

MATTHEW CORREIA

Chief, Research and Integration, DAF-AETC-Air University-Eaker Center

Presentation Title: Developing Airmen and Guardians with Games for Enhanced Readiness (DAGGER)

Matt Correia is the Deputy Registrar in the Holm Center's Air Force Reserve Officer Training Corps. After a successful 25 year active duty career, he became a Civilian Airman as an instructional systems specialist. Correia's previous civilian assignments include the Eaker Center's Civilian Leadership Development School, the Profession of Arms Center of Excellence (PACE), LeMay Center, at Maxwell AFB, the Defense Contract Audit Institute in Sandy Springs, GA, and the Holm Center at Maxwell AFB. Correia has several years of proven innovative education technology application at Air University, culminating as a 2022 Air Force Spark Tank finalist

for “Developing Airmen and Guardians with Games for Enhanced Readiness (DAGGER).” This award goes to innovators who best support one or more Air Force strategic priorities. Correia holds an MPA (2001), an MA in Teaching (2004) and twenty-four graduate hours in Adult Learning (2009).

BETHANY FIDERMUTZ, PH.D.

Education Consultant, Joint Special Operations University

Poster Title: Joint Special Operations University J-NEXT: Strategically Rebalancing Joint-Combined SOF Education Across the Learning Continuum Utilizing Outcomes-Based Military Education

See biography on Page 26.

BENJAMIN GOLDBERG, PH.D.

Senior Scientist, U.S. Army DEVCOM Soldier Center, STTC Orlando

Poster Title: Synthetic Training Environment Experiential Learning for Readiness (STEEL-R)

Dr. Ben Goldberg earned his Ph.D. from the University of Central Florida in the program of modeling and simulation and is currently serving as a Senior Scientist at the U.S. Army Combat Capabilities Development Command (DEVCOM) Soldier Center, Simulation and Training Technology Center (STTC) in Orlando, FL. He has been conducting research in the Modeling & Simulation community for the past fourteen years with a focus on deliberate competency development, adaptive experiential learning in simulation-based environments, and how to leverage AI tools and methods to create personalized learning experiences. Currently, he is the lead scientist on a research program developing adaptive training and intelligent tutoring solutions in support of the Synthetic Training Environment. Goldberg is co-creator of the Generalized Intelligent Framework for Tutoring (GIFT) and lead behind the STE Experiential Learning for Readiness (STEELR) project. He is frequently published across the community in high-impact journals and conference proceedings, and recently contributed his research directly while serving as a member of research and writing teams for the Army Learning Concept for 2030 to 2040.

JIM GOODELL

Director of Innovation, QIP

Poster Title: Learning Engineering At A Glance

Jim Goodell is editor/co-author of the “Learning Engineering Toolkit”, co-author of “Student-Centered Learning: Functional Requirements for Integrated Systems to Optimize Learning” and a thought leader in the world of learning engineering and data standards. He is Director of Innovation at Quality Information Partners where he helps lead development of the U.S. Department of Education sponsored Common Education Data Standards. He is Chair of the IEEE Learning Technology Standards Committee, chairs the IEEE Industry Consortium on Learning Engineering Competencies, Curriculum, and Credentials SIG, the IEEE Competency Data Standards Workgroup, the Adaptive Instructional Systems Interoperability Workgroup, and serves on the ICICLE Steering Committee. He supports the U.S. Chamber of Commerce Foundation’s T3 Innovation Network and co-led development of the Learning and Employment Record (LER) Wrapper Specification. Prior to QIP he was Executive Vice President at the Center for Educational

Leadership and Technology where he led the development of interactive learning technologies and provided information-driven process improvement solutions to state education agencies and school districts throughout the U.S.

JASON HAAG

Consultant, Veracity Technology Consultants, LLC

Presentation Title: Don’t Just Give Me “All the Data” – xAPI and Training Effectiveness Evaluation

Jason Haag has over 20 years of experience in distributed learning technology design and development. Jason is a former alumnus of ADL, where he provided expertise and leadership on SCORM, xAPI, mobile learning, and semantic web technologies. As a Partner at Veracity, he is part of a team that provides Veracity’s LRS product offering, consulting, project management, and technical integration services.

ASHLEY HALL, PH.D.

Learning and Technical Manager, Parallax Advanced Research

Presentation Title: Meeting the Challenges of Cybersecurity Education for DIB Small Businesses

Dr. Ashley Hall is a scholar-practitioner in technical communication and digital media. Dr. Hall spent a decade teaching and doing research in higher education institutions where she provided an immersive and experiential learning environment for her students through curriculum development, classroom teaching, and supervision of internships and graduate research assistantships in a studio/lab-based setting while delivering outstanding results for industry and government clients. As a technical communicator, she uses a mixed methods research-driven approach to gather, distill, and present complex technical information. She draws from her experience as a scholar of digital media and emerging learning technologies to craft innovative and compelling content that is clear, easy to understand, and useful for the intended audience and purpose. Dr. Hall holds a Bachelor of Arts and two Master of Arts degrees from Old Dominion University and a Ph.D. from the University of North Carolina at Chapel Hill.

ARNO HARTHOLT

Director of Research and Development Integration, USC Institute for Creative Technologies UARC

Presentation Title: USC ICT Update on DoD’s Newest Learning Technologies

Arno Hartholt is the Director of Research and Development Integration at USC ICT where he leads the central tech integration group. He is responsible for much of the technology, art, and processes related to virtual humans and related systems, in particular at the interchange of research and industry capabilities. He has a leading role on a wide variety of research prototypes and applications, ranging from medical education to military training and treatment.

SYDNEY HEIMBROCK, PH.D.

Chief Industry Advisor, Qualtrics

Presentation Title: Learning Experience Measurement (LXM)

Presentation Title: Delivering Personalized Learning at Scale: A Human Centered Approach to Learning and Development

Poster Title: Managing the Learning Experience: A Learning Journey Map

Dr. Sydney Heimbrock serves as Chief Industry Advisor for Government at Qualtrics, an experience management company. She works at the nexus of experience management, human capital, and process improvement to drive organizational transformation in government. Dr. Heimbrock has designed and implemented numerous high impact programs across a diverse range of mission areas to improve experiences for employees and customers and create a culture of continuous improvement. Drawing on research she conducted as a d.school Civic Innovation Fellow, Dr. Heimbrock founded the Innovation Lab at OPM, a \$6M, 30-designer-strong educational hub that trains thousands of federal, state and local civil servants in experience management. Following her senior executive service, Dr. Heimbrock joined Deloitte to spread customer strategy and applied design across federal, state, and local governments. She has held various federal executive positions including leadership of the President's Management Agenda Strategic Human Capital Management initiatives under Presidents George W. Bush and Barack Obama. Dr. Heimbrock has led governmentwide transformation of recruitment and hiring, learning and development, and performance management. She has global experience transforming governments through investments in workforce development and policy reform. Dr. Heimbrock's professional expertise includes measurement and evaluation; human centered design and design education; leading and managing creative teams; strategic foresight and continuous process improvement; human capital strategy and management; leadership and workforce development; public policy analysis and public management. Dr. Heimbrock holds degrees from Stanford, Syracuse, London School of Economics and Miami University of Ohio.

TONYA HENDERSON, D.M.

Learning Engineer, Lockwood Hills

Presentation Title: Educational Aspects of Organization Development: Learning by Doing in Technology-Enabled Interventions

Tonya Henderson is a student of organization development and change with a diverse background spanning aerospace, management consulting, change management, and education. She recently joined the Advanced Distributed Learning Initiative team as a Learning Engineer employed by Lockwood Hills, a subsidiary of Akima. As a Doctor of Management and a graduate of the U.S. Naval Academy, she blends scholarly work with a military officer's practicality. A veteran of the aerospace industry, her work is informed by multi-disciplinary experience, education, and scholarship. Tonya's doctoral work and primary line of inquiry explore how socio-material fractals unfold in organizational life, as seen through the lens of storytelling. An experienced keynote speaker, she has been featured at TEDxColoradoSprings and the

Story Project. A former TEDx Curator, Tonya was the 2018-2019 Division Chair for the Academy of Management's Management Consulting Division and has supported a variety of institutions as a consultant, a staff officer, and an adjunct faculty member. Tonya loves exploring how groups of people self-organize and how repeated patterns of perceptions, communications, and behaviors offer clues to organizational values and learning. Tonya lives in Divide, Colorado with her husband and two dogs.

BRIDGET HILDER

Education and Training Coordinator, U.S. Department of Defense

Presentation Title: DISCOVER NSA Innovative Orientation

Ms. H began her career with the Department of Defense (DoD) in her senior year of high school. Throughout her early career she looked for opportunities to broaden her knowledge which lead her to the Technology organization. Here she refined her System Administration skills. She left the DoD to join Sun Microsystems as a Sun System Engineer where she was the contract lead for the Sun Mission Support Desk providing support to a unique disconnected customer. In 2009, she rejoined the DoD again in the Technology organization following her passion for their mission. Looking for an opportunity to shape the future workforce, she took a leap of faith and joined the Corporate Onboarding Team. With over 20 years of technical experience, she is integral in moving the orientation into the future through technology. In partnership with industry and internal technical organizations, she assisted the orientation development team in overcoming technical hurdles encountered during the pivot for virtual delivery due to COVID. Partnering with industry, orientation developed four Virtual Reality (VR) experiences as well as an online game to reinforce content learned during orientation. VR brings its own set of challenges, but she joined an IC wide AR/VR working group to understand how the community is tackling the security challenges AR/VR poses.

XIANGEN HU, PH.D.

Professor, The University of Memphis

Poster Title: Empower CbAIS with xAPI

Dr. Xiangen Hu is a professor in the Department of Psychology, Department of Electrical and Computer Engineering and Computer Science Department at The University of Memphis (UofM) and senior researcher at the Institute for Intelligent Systems (IIS) at the UofM. Dr. Hu received his MS in applied mathematics from Huazhong University of Science and Technology, MA in social sciences, and Ph.D. in Cognitive Sciences from the University of California, Irvine. Hu is the Director of Advanced Distributed Learning (ADL) Partnership Laboratory at the UofM. Hu's primary research areas include Mathematical Psychology, Research Design and Statistics, and Cognitive Psychology. More specific research interests include General Processing Tree (GPT) models, categorical data analysis, knowledge representation, computerized tutoring, and advanced distributed learning. Dr. Hu has received funding for the above research from the U.S. National Science Foundation (NSF), U.S. Institute of Education Sciences (IES), ADL of the U.S. Department of Defense (DoD), U.S. Army Medical Research Acquisition Activity (USAMRAA), U.S. Army Research Laboratories (ARL), U.S. Office of Naval Research (ONR).

MARCIN JOZWIAK

*Deputy Director for Academic Affairs,
NATO DEEP eAcademy*

Presentation Title: Supporting Digital Transformation through Long-Term Faculty Development Programmes – A Case Study of the e-Instructor Certification Programme

Marcin Jozwiak is Deputy Director for Academic Affairs for the NATO DEEP eAcademy. He has been involved with the NATO Defence Education Enhancement Programme since 2018. His responsibilities include coordinating and executing many events connected to NATO Partner training in the field of e-learning. The events range from short-term workshops on the use of ICT tools, to long-term initiatives in the form of postgraduate studies. One of his last projects – e-Instructor Certification Programme is the direct answer to the NATO DEEP Strategy for Distance Learning Support. He has a BA in English teaching and MA in Pedagogy (specifically distance learning). In the past, Jozwiak has cooperated in the field of e-learning with military institutions including the The War Studies University in Poland, The NATO Defence College, and also corporate firms in the fields of law, logistics, and training.

BADRUL KHAN, PH.D.

Professor and TV Host, Khan's Digital World TV Show on FOX 5 Plus DC

Presentation Title: Blended Learning in the New Normal and Metaverse

Professor Dr. Badrul Khan, formerly founding director of Educational Technology Graduate Cohort Programs at The George Washington University and University of Texas at Brownsville, coined the phrase Web-based instruction with his 1997 best-selling book “Web-Based Instruction” which paved the way for the new field of e-learning. Recognized as the founder of modern e-learning by the 2014 NATO e-Learning Forum, he was inducted into the U.S. Distance Learning Association Hall of Fame. He has authored or edited 15 books and over 100 manuscripts in e-learning and his book “Managing E-learning” has been translated into 23 languages. He is the host of KDW TV show on FOX 5 PLUS Washington, DC.

AARON KING

Sr. Solutions Engineer, Blackboard, Now Anthology

Poster Title: Beyond SCORM: Delivering Dynamic and Personalized Courses

Aaron King is an experienced learning solutions architect and learning design professional with a passion for harnessing the power of technology. He is an expert in instructional design, e-learning development, business transformation, executive leadership and organizational development. King believes that artificial intelligence, machine learning, and data analytics is the wave of disruption that will continue to transform the world of learning for years to come. His mission is to impact measurable change through disruptive innovation and educational empowerment. During King's life, he has worn many hats from multi-platinum music producer to soldier to real estate entrepreneur to author and professor. As a result, these experiences have made him an out-of-the-box thinker and prolific innovator.

DINA KURZWEIL, PH.D.

Director/Assistant Professor, USUHS

Presentation Title: The Holy Grail of Developing Partnerships fo DL

Dr. Dina Kurzweil is the Director of the Education & Technology Innovation (ETI) Support Office and an Assistant Professor of Medicine in Health Professions Education (HPE) at the Uniformed Services University of Health Sciences (USUHS). The ETI is housed under the CIO's office and is the enterprise support entity for USUHS. As ETI Director, she provides strategic direction for the ETI, instructional and educational technology support for faculty, and management of the ETI office. Prior to ETI, she worked at the National Defense University providing direction and vision for the instructional team supporting the Center for Educational Technology. Her research interests include faculty education, learning engineering, distributed learning paradigms, program assessment and evaluation, instructional design, teaching/faculty support paradigms and partnerships in education.

SAMANTHA LIE-TJAUW

Senior Research Scientist, Georgia Tech Research Institute

Poster Title: Creating Learning Experiences by Cultivating AI Readiness through Data & Program Modernization

Ms. Samantha Lie-Tjauw is a Senior Research Scientist at the Georgia Tech Research Institute (GTRI). She holds an MPH and an MBA). Her work can be defined as collaboration with a local community to develop strategic, sustainable solutions in tackling issues in the domains of health and enterprise modernization/transformation. Since starting at GTRI, Lie-Tjauw conducts user-centered, mixed-methods research to provide a rich understanding of information technology needs to diverse clients, including the Georgia Department of Community Health, the U.S. Department of the Army, and the Centers for Disease Control and Prevention (CDC). The aim of these projects is to create innovative, user-friendly technologies that allow for enhanced data integrity, data analytics, and enable social programs to engage in evidence-based intervention design. Her capabilities include design thinking, systems thinking, and an intimate familiarity with the software development process which afford her the opportunity to act as a translator between end user and technical developer.

BRIAN MILLER

Director of Engineering, Rustici Software

Poster Title: When to Migrate Legacy SCORM Content to cmi5

Brian Miller is one of the world's foremost xAPI thought leaders and a chief contributor to the cmi5 working group. He was the architect and principal engineer for ADL's cmi5 CATAPULT, a freely available, open source cmi5 content player and conformance test suite for use by DoD stakeholders and eLearning technology vendors as a way to test and validate content for cmi5 conformance. He has over 20 years of professional and eLearning industry experience. In 2012, Miller joined Rustici Software and has worked on cmi5 CATAPULT, Project Tin Can, standards support, and open source libraries as well as leading the engineering team.

PAUL MILLER

Director of Application Development, LSI, Inc.

Presentation Title: Closed Network xAPI

Paul Miller is the Director of Application Development at LSI, Inc. in Jacksonville, FL and is responsible for leading the Application Development Team (ADT) to develop and support the tools used by LSI training product development teams. He received his BS in Management of Information Technology from Grace College. His current research focuses on the development of desktop, web, and mobile software enabling the review, delivery, and tracking of eLearning content. Throughout his years at LSI, he has gained expertise in the field of tracking student data, which began with in-depth implementation of the SCORM standard and has evolved to include extensive experience with the Experience API (xAPI). Past projects include Mobile Courseware – a mobile platform for delivering web-based content via packaged native applications for both Apple iOS (iPad) and Android tablets used by LSI's U.S. Army and U.S. Navy customers which allow for a SCORM package to easily transfer to a native tablet app with built-in xAPI reporting capabilities and xAPI Learner's Performance Dashboard – a closed network solution to track student performance in Virtual Reality (VR) training in a classroom via xAPI statements.

KEVIN MONAGHAN

Instructional Strategist, E-Content Consulting

Presentation Title: Designing and Navigating E-Learning into Communities that Need Training Assistance Locally

Kevin Monaghan is a seasoned PM for several key technology-driven trainings, virtual projects, and other distance learning projects. He is well-versed in applying the principles of adult learning in largescale training development projects.

BRIAN MOON

Chief Technology Officer, Perigean Technologies, LLC

Presentation Title: Learning Assessment through Concept Mapping

Brian Moon is founder and Chief Technology Officer for Perigean Technologies LLC and founder and President of Sero! Learning Assessments, Inc. He is widely recognized for his innovative applications of concept mapping, which are highlighted in the edited volume, "Applied Concept Mapping: Capturing, Analyzing, and Organizing Knowledge" and which led to the development of Sero!, a concept mapping based-learning assessment system. Sero! development has been funded by the Advanced Distributed Learning Initiative, Air Force Research Laboratory, and Army Research Institute. Moon is also the co-host of the Beyond Multiple Choice Conference and Exhibition, and Executive Director of the Naturalistic Decision Making Association.

JENNIFER MURPHY, PH.D.

Chief Executive Officer, Quantum Improvements Consulting

Presentation Title: Thinking Outside the Learner Performance Box with xAPI Data

Jennifer Murphy, Ph.D. is the founder and CEO of Quantum

Improvements Consulting (QIC), an Orlando-based firm specializing in the application of emerging technology to training for complex skills. A cognitive psychologist by trade, her work focuses on how to design, develop, implement, and evaluate training technology for the Department of Defense and other clients. At QIC, she leads a growing team of learning science professionals. In addition to her many peer-reviewed publications, her work has been featured in the New York Times, the Pentagon Channel, and Signal Magazine.

ROB NYLAND, PH.D.

Learning Architect, Global College of PME, Air University

Presentation Title: Towards a Model of Learning Engineering: The Pilot Process in the Air University Global College of PME

Rob Nyland, Ph.D. is an Assistant Professor and Learning Architect for the Global College of PME at Air University. He previously served as the Assistant Director, Research and Innovation Team Manager at Boise State University. He has over 15 years of experience as an instructional designer, researcher, and instructor and has published research related to online learning and learning science in such journals as The Journal of Computing in Higher Education, International Review of Research in Open and Distributed Learning, and TechTrends.

DOLLY OBEROI

Chief Executive Officer, C2 Technologies

Presentation Title: Blended Learning in the New Normal and Metaverse

KEVIN OWENS

Engineering Scientist, ARL: The University of Texas at Austin

Presentation Title: Multi-Session Demonstration of Competency-Based Experiential-Learning Model for the U.S. Army Synthetic Training Environment (STE)

Kevin Owens is an Engineering/Learning Scientist at the Applied Research Laboratories: The University of Texas at Austin (ARL:UT). At ARL:UT, Owens currently works in the Modeling and Simulation Engineering group where he is involved in engineering projects for the U.S. Army Synthetic Training Environment (STE), and for advanced science and technology research for U.S. Army Development Command, Soldier-Center, Simulation & Training Technology Center (STTC).

REGAN PATRICK, ED.D.

Chief Learning Officer, CAE

Presentation Title: Using the 'Red Pill' to Conceptualize Training Optimization; Insights on Future Learning Ecosystems from 'The Matrix'

Dr. Regan J. Patrick is the Chief Learning Officer for CAE Defense & Security, based in Washington, D.C. He is responsible for identifying, developing, and applying scientific methods, instructional strategies, and learning technologies in the design, implementation, and delivery of global training solutions. He is also responsible for assessing and establishing CAE's Defense and Security multi-

domain training strategies. He retired from the U.S. Air Force after a 26-year career as an officer and HH-60G Pave Hawk helicopter pilot. Patrick served in multiple command and leadership tours and amassed 2,400 hours of flight time in the T-37, UH/TH-1H, HH 60G, CV-22, MC-130H/J, and F-16D. He joined CAE in 2018 as Program Manager for the \$250M K DAM ATARS contract, leading 300+ employees to provide academic instruction and simulator training to 1,800 USAF aircrew students annually. He holds a Doctor of Education in Organizational Change and Leadership from the University of Southern California (USC), a Master of Aeronautical Science Degree from Embry-Riddle Aeronautical University, and a Bachelor of Arts in Economics from San Diego State University. Patrick is a graduate of the USAF Air War College and a former Air Education and Training Command (AETC) Master Instructor. He served on the adjunct faculty at Embry-Riddle Aeronautical University's Worldwide Campus for 11 years and is an IRONMAN triathlete.

DANIEL PFEIFFER

Director of Technology, Float, LLC

Presentation Title: Self-Regulated Learning and Adaptive Training in PERLS

Poster Title: PERLS – Self Regulated Learning and Adaptive Content Delivery: A Vital Part of the TLA

Mr. Daniel Pfeiffer is the Director of Technology at Float, directing the mobile, web, and AR development teams. He is responsible for working with Float's clients' technical experts to identify, design, and implement the technical architectures that meet the requirements and goals of the client and the project. Pfeiffer works with Float's development teams to make sure that the team members complete the work with quality and adherence to industry-accepted standards and client standards. He has led efforts for a number of ADL's mobile efforts as well as Fortune 500 clients, including Microsoft, AbbVie, and Home Depot. His expertise in data design has continued to enable him to build creative and robust solutions for clients. Pfeiffer has proficiency with a number of open and proprietary industry standards, including the Experience API (xAPI). Daniel has presented at a number of development conferences on topics related to mobile and is a contributing author to "Mastering Mobile Learning: Tips and Techniques for Success".

JONATHAN POLTRACK

Partner & Project Management/Technical, Veracity Technology Consultants, LLC

Presentation Title: xAPI Profiles in the DoD: The Mix of the Ideal and Reality

Mr. Jonathan Poltrack is passionate about learning and its intersection with technology. Poltrack contributed to the SCORM and xAPI specifications and a number of e-learning software examples while supporting the ADL Initiative. Most recently, Poltrack co-founded Veracity Technology Consultants. Veracity focuses on standards-based learning technology services and products including the multi-award winning Veracity LRS available at lrs.io.

MADISON QUINN

Research Analyst, Engineering & Computer Simulations, Inc.

Presentation Title: Haptic and Virtual Reality Glove Comparison

Ms. Madison Quinn has been working in research for two years. She holds a Masters in Industrial Organizational Psychology from Bellevue University. Quinn supports applied research projects at ECS for military training research. She conducts scientific literature reviews, designs usability survey instruments, conducts interviews, and supports data collections.

FRANK RITTER, PH.D.

Professor, College of IST, Penn State

Poster Title: Using a Light-Weight Tutoring Architecture and COTS Software to Quickly Translate Three Tutors into Ukrainian

Ritter has received study fellowships from the Air Force Office of Scientific Research, the European Science Foundation's program on Learning in Humans and Machines, and the Fulbright Kommission (D). He has created several web sites, one of which, the Soar-FAQ, won an award for being frequently cited. He has created software, tutorials, and methodology for cognitive modeling. Ritter has published numerous refereed books, articles, and conference papers in cognitive modeling, HCI, AI, and psychology. He twice co-edited the proceedings of a conference on cognitive modeling and special issues of Computational Mathematical Organizational Theory and the International Journal of Human-Computer Studies on cognitive models as users. He is an associate editor of Human Factors and Editor of the Oxford Series on Cognitive Models and Architectures. His research has been funded by the U.S. Office of Navy Research, the U.S. Air Force Office of Scientific Research, DSTL, DARPA, the Defense Evaluation and Research Agency (U.K.), and the U.K. Joint Council Initiative on Cognitive Science and Human Computer Interaction, as well as corporations in the U.S. and Europe.

DAVID RUDE, PH.D.

Executive Director of Talent Management & CLO, Parallax Advanced Research

Presentation Title: Microelectronics Workforce Development – A Learning Partnership Case Study

Dr. Dave Rude is the Director for Talent Management and Chief Learning Officer for Parallax Advanced Research, a 501(c)(3) nonprofit dedicated to Advancing the Science of Intelligent Teaming. Prior to joining Parallax, Dave was the CLO for the Department of Defense's civilian workforce of 800,000 employees and the U.S. National Nuclear Security Administration. He also led the DoD's H.R. strategies and programs portfolio, served as DoD's adult education functional community manager, and was H.R. director of a DoD agency. He has extensive experience in talent development, organizational leadership, adult learning, consulting, strategic human capital management, organizational development, financial management, and international relations (various security cooperation assignments). Dave has an Ed.D. from George

Washington University, a MPA from American University, a BS in Business Administration from George Mason University, and is a Certified Professional in Talent Development (from ATD), a Certified Action Learning Coach (from World Institute of Action Learning), and a Certified Innovation Practitioner. He has facilitated workshops with over 25,000 professionals worldwide and has been an adjunct professor at multiple universities since 2014. Dave is the author of several publications, has been featured in Chief Learning Officer magazine, and has been conferred awards such as the Secretary of Defense Exceptional Civilian Service Award and the Emotional Intelligence Training & Research Award for Excellence.

TAMMY RUTHERFORD

Managing Director, Rustici Software

Presentation Title: Uncovering the Technology Challenges of Moving Toward a Modern, Total Learning Architecture-Centric Ecosystem

Tammy Rutherford is the Managing Director at Rustici Software, which helps eLearning companies work well together by compliance with specifications such as SCORM or xAPI. She has spent more than 13 years in the eLearning space. Since joining Rustici Software in 2011, Rutherford has advised hundreds of eLearning vendors, content publishers, organizations and government agencies on strategies and software solutions for implementing and taking advantage of eLearning standards in their products and systems.

ALICIA SANCHEZ, PH.D.

Center Director, DAUx, Defense Acquisition University

Presentation Title: Meeting Learners' Expectations: A Survey-Based Methodology for Quality Improvement

Dr. Alicia Sanchez serves as the Center Director of DAUx, an experimentation cell within the User Experience Directorate at the Defense Acquisition University. Alicia has served DAU for 15 years, focusing on experiential learning opportunities and creating high quality assets that meet learner's expectations. Sanchez has launched over 80 games in DAU's ecosystem and presents frequently at conferences within the learning and games industry.

KARTHIK SARMA, PH.D.

Chief Technology Officer, SimX, Inc.

Presentation Title: Distributed, Fully Immersive VR Medical Simulation Training for Team-Based Care

Karthik V. Sarma, Ph.D. is co-founder and CTO of SimX, Inc. At SimX, Karthik directs SimX's technology efforts, including product engineering, research and development, and engineering program management. He also serves as principal investigator of the Virtual Advancement of Learning for Operational Readiness (VALOR) program, an \$8M research collaboration between SimX and the Department of Defense. A computer scientist with extensive experience in medicine, bioengineering, health policy, and virtual reality, Sarma has led the development of the SimX platform since co-founding the company in 2014 and is a leading expert in virtual reality training and simulation. Sarma is the author of numerous

peer reviewed works and patents and is the recipient of a number of federal research grants in the areas of VR medical simulation training and medical artificial intelligence. A native of Chicago, Sarma is an alumnus of the California Institute of Technology, where he received a BS with honors in computer science, and the University of California, Los Angeles, where he received the degree of Doctor of Philosophy in Bioengineering (Medical Imaging and Informatics).

ROB SEIDNER

Director, edX/2U

Presentation Title: The Need for Civil Service Classification and Education Credentials Modernization: DoD Training the Workforce of the Future, Today

Rob Seidner is edX's Director for Government Partnerships where he works with federal and state agencies to provide access to the edX platform for adult learning which is currently used by over 44M registered learners building skills and developing capacity. Rob continues to be engaged with governments to modernize training and standards. Seidner had a nearly 20-year career in the U.S. Federal Government, the last eight years in the Executive Office of the President of the U.S.' Office of Management and Budget as the Performance Manager for Federal Human Capital Policy. In that role he was responsible for working with all agencies, the White House, and Congress on designing the architecture of the Civil Service. He was the primary author and analyst of the human capital-related portfolio for issues that required Presidential input and direction. As an acknowledged expert on the future of work in government, Seidner continues to work with clients and partners including institutions like the World Bank, international governments, consulting firms, and employers to build awareness for these new game-changing microcredentials and learning solutions, that help businesses and individuals achieve their personal and economic potential.

HEATH SHATOUHY

Chief Commercial Officer, Immerse Learning, Ltd.

Presentation Title: Shorten Time to Competency With Ready to Use Immersive Training Applications

Heath Shatouhy is the Chief Commercial Officer for Immerse—the leading aggregation, distribution, and reporting platform for immersive content where he leads the global revenue generation, marketing, and client success teams. Heath started his career over 25 years ago as a Director of HR for a mid-sized amusement company. From that point, he transitioned into HR Consulting for a Fortune 1000 company that provides human resources and administrative services to small and medium-sized businesses. After seven very successful years, he left corporate America and dove head-first into the world of startups. Since then, Shatouhy has leveraged his experience to launch two successful HR tech startups and has consulted with some of the largest enterprises in the world. He is a true HR tech enthusiast and is convinced that immersive technology will be one of the driving forces behind the upcoming revolution in people technology.

HARVEY SINGH

Chief Executive Officer, Instancy.com

Presentation Title: Combining Microlearning, Spaced Learning, Gamification, Chatbots, Mobile Learning to Personalized Learning Experience

Harvey Singh is the CEO and founder of Instancy, an all-in-one blended learning platform company. Harvey also served as an advisor to eLearning standards organizations such as ADL and IMS in the late nineties. In 2001, he was nominated for the eLearning Executive of the Year. Before Instancy, at MindLever, Singh was the visionary and principal architect behind creating the industry's first eLearning open standards-based system for rapid interactive content authoring, management, and personalization using a pioneer learning object and dynamic content delivery methodology. MindLever received the Intrepid Company of the Year award in 2001 from The Council for Entrepreneurial Development in North Carolina. Before MindLever, Singh co-founded Empower Corporation, an online learning product design and development outsourcing company that broke new ground in the areas of simulations, games, performance support, and story-based learning environments. Singh has a Master's degree in both computer science and education at Stanford University and an undergraduate degree in computer science at North Carolina State University. He started his career in learning technology at Apple Classrooms of Tomorrow in 1991 (Apple Computer's ACOT lab).

ROBERT SOTTILARE, PH.D.

Director of Learning Sciences, Soar Technology, Inc.

Presentation Title: Applying Artificial Intelligence (AI) to New Distributed Learning Challenges in the Post-Pandemic Era

Presentation Title: Building a Competency Model from a Learning Record Store Just Prior to New Learning Experiences

Dr. Robert Sottolare is the Director of Learning Sciences at SoarTech which he joined in 2018 after completing a 35-year federal career in both Army and Navy training science and technology organizations. He has nearly 40 years of experience as a researcher, developer and evaluator of instructional technology and training systems. His experience spans government (U.S. Army and Navy science & technology organizations), industry, and academia. Sottolare is also Board Chairman for the Adaptive Instructional Systems Consortium. His recent research focuses on intelligent solutions for analysis and adaptive instruction including learner and team modeling, automated authoring tools, AI-based real-time instructional management, and evaluation methods. At the U.S. Army Research Laboratory, he founded and led the adaptive training science & technology program and is the father of the award-winning Generalized Intelligent Framework for Tutoring (GIFT), an adaptive instructional architecture. Sottolare is widely published with over 250 technical papers with over 2,600 citations. He is a senior member of the IEEE and founding Chair of the IEEE AIS Working Group and the HCII AIS Conference and is a past Program Chair of the Defense & Homeland Security Simulation Conference. He is a past chair for the Technical Cooperation Program's Training Technology Panel and NATO Research Task Groups including the "Assessment of Intelligent Tutoring System Technologies & Opportunities" and the "Assessment of Augmentation Technologies for Improving Human Performance". Sottolare previously instructed graduate level courses on Intelligent Tutoring System theory and design at the University of

Central Florida.

WILLIAM SWARTOUT

Chief Technology Officer, USC Institute for Creative Technologies UARC

Presentation Title: USC ICT Update on DoD's Newest Learning Technologies

William Swartout is Chief Technology Officer at the USC Institute for Creative Technologies, and a research professor in the Computer Science Department at the USC Viterbi School of Engineering. His research interests include virtual humans, explanation and text generation, knowledge acquisition, and intelligent computer-based education. Swartout is a Fellow of the AAAI, has served on their Board of Councilors, and is past chair of the Special Interest Group on Artificial Intelligence (SIGART) of the Association for Computing Machinery (ACM). In 2009, Swartout received the Robert Englemore Award from the Association for the Advancement of Artificial Intelligence (AAAI) for seminal contributions to knowledge-based systems and explanation, groundbreaking research on virtual human technologies and their applications, and outstanding service to the artificial intelligence community. He has served as a member of the Air Force Scientific Advisory Board, the Board on Army Science and Technology of the National Academies and the JFCOM Transformation Advisory Group. Prior to helping found the ICT in 1999, Swartout was the Director of the Intelligent Systems Division at the USC Information Sciences Institute. He received his Ph.D. and MS in computer science from MIT and his bachelor's degree from Stanford University.

PAUL THOMAS

Course Developer, Center for Curriculum Redesign, Inc.

Presentation Title: Multi-Source Formative Assessment System for Competencies

Paul Thomas has spent the past 25 years developing research-driven curriculum for small startups, public corporations, and nonprofits. His work includes dozens of courses for virtual, blended, and traditional classroom contexts as well as textbooks. Thomas started out as a high school math and computer science teacher, and holds degrees in Mathematics and Operations Research from George Mason University.

PAUL THURKETTLE

Training Technologies, NATO Allied Command Transformation

Presentation Title: Virtual Reality Training for NATO Operational Equipment

Paul Thurkettle is a British NATO civilian working at the NATO strategic command, ACT, based in Norfolk, VA. During his tenure with NATO since 1990 and his 12 years of Royal Air Force service, Thurkettle has covered telecommunications, command and control systems, technology, and training. Currently, in his role as the lead for NATO in adopting technology for education and training, he is introducing e-learning into NATO, covering all aspects of this field from serious games to mobile learning.

CHRIS TOMPKINS

Director of Sales, Rustici Software

Presentation Title: Understanding Your Internal Stakeholders Needs: What to Ask Technology Vendors about eLearning Standards

Chris Tompkins is the Director of Sales for Rustici Software, a company that provides software to improve compatibility across the L&D ecosystem. He is an expert in standards such as SCORM and xAPI and uses his technical expertise to support eLearning RFP and procurement. Tompkins has an MBA from Belmont University, focused on Entrepreneurship and Negotiations. Building on previous work at HP/Compaq and XM Satellite Radio, he has over fifteen years of experience matching the right technical solution to a client's needs.

MEGAN TORRANCE

Chief Executive Officer, TorranceLearning

Presentation Title: Supporting Industry Adoption of xAPI Through Cohorts – 2014-2022 and Beyond

Megan Torrance is CEO and founder of TorranceLearning which helps organizations connect learning strategy to design, development, data and ultimately performance. Megan has over 25 years of experience in learning design, deployment, and consulting. Torrance and the TorranceLearning team are passionate about sharing what works in learning so they devote considerable time to teaching and sharing about Agile project management for learning experience design and the xAPI. Torrance is the founder of the xAPI Learning Cohort, picking up from the successful xAPI Design Cohorts run by ADL. She is the author of Agile for Instructional Designers, The Quick Guide to LLAMA, Making Sense of xAPI and two Learning Guild research reports on the adoption of xAPI. Torrance is also an eCornell Facilitator in the Women's Executive Leadership curriculum.

JASON TYSZKO

Vice President, U.S. Chamber of Commerce Foundation

Presentation Title: Data and the Talent Marketplace

Presentation Title: JobSIDE: Transforming How Employers Improve and Share Skills Data for their Most In-Demand Jobs

See biography on Page 26.

SANDY WAGNER

Associate Professor, Defense Language Institute

Presentation Title: Instructional Design for Second Language Learning

Sandy Wagner, M.A.Ed., is an Associate Professor at the Defense Language Institute Foreign Language Center in Monterey, CA. She has extensive professional training and experience in developing and facilitating technology-mediated foreign language instruction, distance learning, and teacher-training in foreign language instruction and technology integration.

ALEC WALKER

Director of Talent, Growth Engine, Inc.

Presentation Title: Just In Time: AI-Driven Micro Learning for Everyone

Presentation Title: AI-Assisted Curriculum Building in Minutes

Alec Walker earned his BS in engineering from Rice University and his MBA from Stanford. He has worked in unstructured data management and workforce productivity optimization for major multinational organizations including Shell, GM, Intel, Danone, and others. His last text analytics venture earned several major clients including Chevron and Linde before being acquired. Walker is passionate about education, having taught entrepreneurship and software development at more than 15 top universities around the world. Walker now serves as Director of Talent at Growth Engine AI, a software startup enabling faster generation of relevant education curricula for the enterprise and content delivery individualized to meet the needs of each learner. Growth Engine AI has changed the future of work by freeing up subject matter expert time otherwise spent on creating internal training courses, by ensuring that education content is contemporary and relevant, and boosting learner engagement and comprehension.

KRISSA WATRY

Chief Executive Officer / Co-Founder, Dynepic, Inc.

Presentation Title: Death to SCORM

Ms. Krissa Watry is Co-Founder and CEO of Dynepic, Inc. As a Captain in the USAF, Krissa was the Chief Engineer for Milstar at 4th Space Operations Squadron managing the operations of the ultra-secure communication satellite constellation in GEO. Watry spent over 10 years designing, building, launching and operating cutting-edge space systems for organizations like NASA, DoD, and others, including spaceflight hardware that docked with the International Space Station. In addition, Watry is a multi-preneur with over 10 years as a technology executive who has founded multiple companies and commercialized a multitude of hardware and software products across the sports, education, kids and family, and defense industries. Watry holds 10 patents and is recognized as a Global Innovator and Entrepreneur by President Obama. She holds a BS in Engineering Mechanics from the U.S. Air Force Academy, and was a Draper Laboratory Fellow achieving a MS in Mechanical Engineering from MIT focused in product design.

TIM WELCH

Program Manager for Competency Solutions, Eduworks

Presentation Title: USC ICT Update on DoD's Newest Learning Technologies

Tim Welch is the Program Manager for Competency Solutions at Eduworks Corporation. He is focused on innovative ways instructional technologies improve the performance of a wide variety of learners and instructors in academic, professional, and military environments. Tim has been a teacher, instructional designer, and evangelist for emerging learning technologies at many levels of multiple instructional organizations. USC ICT and Eduworks won the

I/ITSEC 2021 Best Paper award for collaborative research on an Air Force project called the Observational Motivation and Engagement Generalized Appliance (OMEGA). OMEGA integrated with a Pilot Training Next VR flight simulator testbed, using reinforcement learning to estimate engagement metrics and provide training recommendations.

DUNCAN WELDER, IV

Director of Special Interest Groups for ATD Houston, RISC, Inc.

Presentation Title: Learner Focused Design: xAPI Enabled Adaptivity and Complex Skills Development

Mr. Duncan Welder holds a Master's of Education from Texas A&M University in Educational Technology and has more than 25 years experience in implementation of Learning Management Systems, both domestically and abroad. Welder has been recognized for his application of Learning Management Systems to manage regulatory-compliance in industries ranging from petrochemicals to finance and has provided presentations to professional organizations including the Gulf Coast Process Technology Alliance, the Northwest Process Technology Alliance and the American Society of Training and Development.

Welder's career is founded in traditional instructional design and computer-based training development. He is a certified Development Dimensions International facilitator, a Kirkpatrick Certified Evaluator and facilitator of the Ohio State University curriculum development program. In addition to working in industry, Welder has held adjunct faculty positions at Bowling Green State University, Ohio and the College of the Mainland, Texas. Mr. Welder has been published in both Training Magazine as well as U.S. Business Review.

ART WERKENTHIN

President, RISC, Inc.

Presentation Title: Using xAPI to Track Learning Experiences in Unity Projects

Art Werkenthin, CEO of RISC, Inc., has over 30 years' experience working with learning management systems (LMS). As an early xAPI enthusiast, Art led RISC to be the first to implement xAPI 1.0 in a commercial LMS. Since 2012, he has been an active participant on the ADL cmi5 Working Group. Werkenthin frequently presents and authors blog articles on both xAPI and cmi5 topics. Recently, Werkenthin has published articles on adding xAPI to Unity projects for A/R and V/R.

Werkenthin developed an open source cmi5 "AU Simulator" that can be used to test LMS implementations of cmi5. In addition, he developed the open source cmi5 client library for ADL in 2019. Werkenthin provides cmi5 and xAPI consulting to both Learning & Development professionals and content tool vendors.

ANN WONG, PH.D.

Director, DAU Leadership Center, Defense Acquisition University (DAU)

Presentation Title: "Alexa, Be My Tutor!" Voice Assistant Pilot

Dr. Ann Wong is currently the Director, Defense Acquisition University (DAU) Leadership Center at Defense Systems

Management College (DSMC). Previously she was the Learning Director for Executive Programs, where she focused much of her effort on the modernization and reimagining of the Executive Curriculum Portfolio. She has over 10 years as a professor at DAU, leading the development of workshops, distance learning, ITL, and VILT assets and has served as a Course Manager for several courses. Wong values collaboration with partners who see the future of learning to be "one part technology, one part inspiration, all parts about the learner." Prior to joining DSMC, Wong served a 24-year Air Force career in a variety of acquisition management and engineering roles. She has experience in a variety of domains, to include software, information technology, aviation, logistics, space systems, command and control, modeling and simulations, wargaming, military exercise support, and homeland defense/security. She had held assignments in service and joint program offices, Wing Headquarters, OSD, Air Staff, and Joint Staff. Wong holds a Doctorate of Engineering Management, The George Washington University; MS in Systems Engineering from the Air Force Institute of Technology, a MS of Project Management from Golden Gate University, and a BS in Electrical Engineering from the University of Virginia. Her publications include "Network Science in Complex Systems Design: Use of Centrality in the Study of Railway Network Capacity" (2018), "Graph theoretical analysis of network centric operations using multi-layer models" (2006), and "A Chance to Alpha-Innovate in Program Management" (2014).

MATTHEW WREN

Co-Founder, President & CTO, BUNDLAR, LLC

Presentation Title: Scaling AR Delivery Capability Across the Military to Enable Multi-Skilled Warfighters

Mr. Matt Wren is the Co-founder, President, and CTO of BUNDLAR, an augmented reality solutions company. Wren has delivered cutting-edge technology since the late 1990s, supporting enterprises as large as GE, Kraft, and Northern Trust, as well as start-ups. Wren also serves as a technology adviser to Loyola University Chicago's Ignite Lab for Entrepreneurship, a Designer/Developer member at 1871, the World's #1 Tech Incubator, and is the Founder of VR/AR Chicago, growing and connecting the immersive technology business community in Chicago and the surrounding area. He regularly writes and speaks about immersive technology at events, providing thought leadership on content, strategy, innovation, and the business benefits of virtual and augmented reality technology. He spent many years supporting live events in different technical capacities, including project management, logistics, design, technology development, and support.

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NTSA SCHEDULE OF EVENTS

2022 EVENTS

**INTERSERVICE/INDUSTRY
TRAINING, SIMULATION &
EDUCATION CONFERENCE
(I/ITSEC) 2022**

November 28 – December 2, 2022
Orlando, FL

**SIMULATION & TRAINING
COMMUNITY FORUM (STCF)
2023**

May 3, 2023
Fairborn, OH

MODSIM WORLD 2023

May 22 – 23, 2023
Norfolk, VA

CAPITOL HILL M&S EXPO 2023

July 2023
Washington, DC

iFEST 2023

August 2023
Alexandria, VA

2023 EVENTS

M&S LEADERSHIP SUMMIT 2023

Date TBD
Location TBD

IT²EC 2023

April 24 – 26, 2023
Rotterdam, the Netherlands

**TRAINING & SIMULATION
INDUSTRY SYMPOSIUM
(TSIS) 2023**

June 21 – 22, 2023
Orlando, FL

**INTERSERVICE/INDUSTRY
TRAINING, SIMULATION &
EDUCATION CONFERENCE
(I/ITSEC) 2023**

November 27 – December 1, 2023
Orlando, FL

[NTSA.org/Events](https://www.ntsa.org/Events)

EXHIBIT HOURS

TUESDAY, 16 AUGUST

1300 – 1900

WEDNESDAY, 17 AUGUST

0800 – 1900

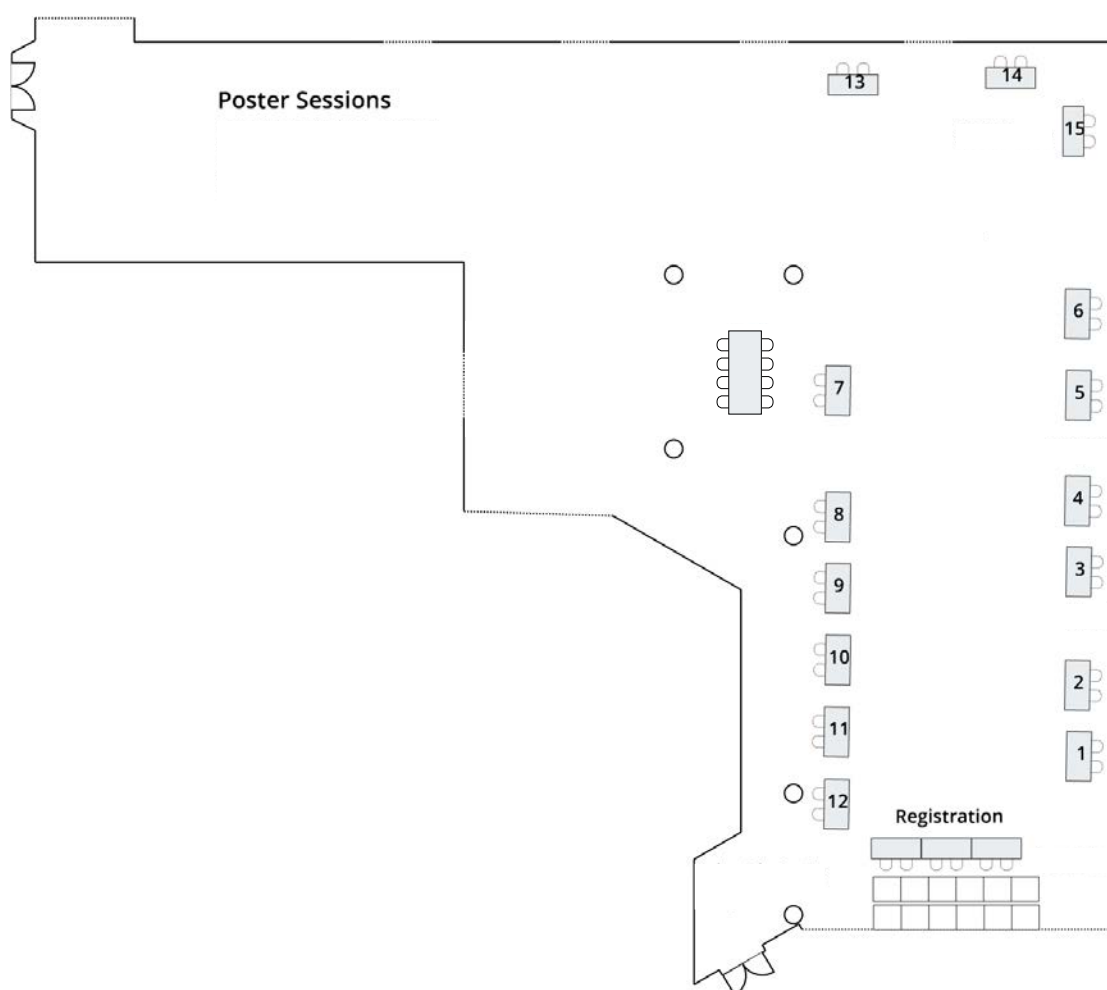
THURSDAY, 18 AUGUST

0800 – 1200

EXHIBITORS BY COMPANY

ADL Initiative	14 & 15	Moodle US	10
Anatomage	6	NATO Allied Command Transformation	14 & 15
Blackboard is Now Anthology	12	Progressive Expert Consulting, PEC Inc.....	2
BNH Expert Software, Inc.....	11	Rustici Software.....	3
Deloitte Consulting, LLP.....	7	SimIs, Inc.....	4
IEEE LTSC	1	Veracity Technology Consultants	8
IntelliBoard	13	Wharton Interactive	5
Linchpin Solutions.....	9		

FLOOR PLAN



COMPANY DESCRIPTIONS

ADL INITIATIVE

14 & 15

The ADL Initiative is a government program that works with Defense stakeholders and other Federal agencies, as well as Coalition military partners, industry, and academia, to develop the next generation of distributed learning applications and solutions made available on the DoD Learning Enclave.
adlnet.gov/

ANATOMAGE

6

Anatomage is a medical company, driving innovation through advanced solutions in hospitals and educational institutions. Our products include medical tables, surgical devices, and radiology software.
amatomage.com/table

BLACKBOARD IS NOW ANTHOLOGY

12

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Blackboard (now Anthology) offers the largest EdTech ecosystem on a global scale, supporting over 150 million users in 80 countries. The company's mission is to provide dynamic, data-informed experiences so that learners and educators can achieve their goals.
anthology.com/government

BNH EXPERT SOFTWARE, INC.

11

BNH Training Management System ADVISOR Enterprise simplifies & speeds Training Needs Analysis; and drives training efficiency by aligning training activities with operational requirements to identify gaps, duplications, and training with minimal value.
bnhexpertsoft.com

DELOITTE CONSULTING, LLP

7

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Deloitte is leading the movement to build a public sector learning ecosystem that delivers unique, data-driven training and leadership programs that empowers all to learn, develop, and succeed.
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FedLearn offers the first AI-enabled, online learning platform with content contextualized to DoD mission areas. Only we can answer the critical question whether learning is occurring (or not). Our solution provides rich, personalized learning experiences with quantifiable outcomes.
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1

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INTELLIBOARD

13

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The IntelliBoard reporting & analytics platform addresses the primary success factors for organizations with access to data. Extract statistical data from your LMS, HRIS, or even spreadsheets and make your data actionable and impactful for your ROI.
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LINCHPIN SOLUTIONS

9

Linchpin Solutions provides exceptional support for can't fail missions. Areas of expertise include Curriculum Development & Training, Integrated Product Support Services, Help Desk Solutions, Professional Services, and Facilities as a Service (FaaS).
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lockwoodhills.com

MOODLE US

10

As a Moodle-owned entity, Moodle US provides advanced skills and services to enable customers to build the best online learning experiences in the world. Our team of experts assists with hosting, course design, custom development, and anything in between.
moodle.com/us

NATO ALLIED COMMAND TRANSFORMATION

14 & 15

Allied Command Transformation is based in Norfolk Virginia. Allied Command Transformation's mission is to contribute to preserving the peace, security, and territorial integrity of Alliance member states by leading the warfare development of military structures, forces, capabilities, and doctrines.

act.nato.int

PROGRESSIVE EXPERT CONSULTING, PEC INC.

2

PEC is a technology integrator, and we have a complete, turnkey solution for synchronous, supported online learning. Our core experience for over three decades has been in virtual language and culture learning, however our platform is customizable to meet a variety of learning needs.

pecinc.com

RUSTICI SOFTWARE

3

At Rustici Software we help learning technology solutions play well together. Since 2002, we have helped thousands of eLearning software vendors, organizations and government agencies conform to specifications like SCORM, xAPI, cmi5, LTI and AICC.

rusticisoftware.com

SIMIS, INC.

4

SimIS Inc., founded in 2007, is an innovative information technology Veteran Owned Small Business (VOSB). SimIS is led and managed by industry professionals with career experience, determination, and balanced business insight. We are a Values-driven company specializing in Modeling and Simulation Training, Test and Evaluation, Autonomous Solutions, Information Assurance, and Cyber Security.

simsinc.com

VERACITY TECHNOLOGY CONSULTANTS

8

SPONSOR

Veracity provides software and professional services for learning and performance. We are the creators of Veracity Learning (<https://lrs.io>), our enterprise, award-winning xAPI Learning Record Store (LRS) product offering available as cloud-hosted SaaS or as an On-Premises implementation.

veracity.it

WHARTON INTERACTIVE

5

Wharton Interactive draws on games, simulations, and the latest pedagogical research to create new kinds of learning experiences that are designed to transform and democratize education.

interactive.wharton.upenn.edu

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Corporate members of NTSA receive early space selection and discounts on exhibits space at I/ITSEC. Whether you are a large or small company, there is an NTSA membership option for you.

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- Seat on Executive Committee and Invitation to M&S Awards Dinner
- Additional exposure at I/ITSEC

Regular

- \$1,250 to \$3,750 in dues (depending on # of employees involved in training and/or M&S)
- Second round of booth space selection (in early to mid-February)
- 5% discount on booth space for I/ITSEC (Maximum discount = dues amount paid)

Associate

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VISIT NTSA.ORG/MEMBERSHIP, CONTACT CAROL DWYER AT CDWYER@NTSA.ORG

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Join us again next year for iFEST 2023!