2018

FUTURE LEARNING ECOSYSTEM: LEARNING DATA & ANALYTICS, INTEROPERABILITY, AND LEARNING SCIENCE

August 27 – 29 **|** Hilton Mark Center **|** Alexandria, VA **|** Training Systems.org/Events

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NTSA A Proud Affiliate of **NDIA**

WHO WE ARE

The National Training & Simulation Association (NTSA) provides the training, simulation, related support systems and training services industries a focused, formal organization to represent and promote their business interests in the market place. NTSA provides a forum to communicate the full capability and broad characteristics of all the elements of training systems and services to include associated support services. NTSA as is an affiliate of National Defense Industrial Association (NDIA). NDIA is America's trusted leader in defense and national security associations.

SCHEDULE AT-A-GLANCE

SUNDAY, 26 AUGUST
Hackathon
ADL Initiative
Begins at 1300 (24hr)

MONDAY, 27 AUGUST
Hackathon
ADL Initiative
Concludes at 1300

Exhibits Open
Lower Foyer
1300 - 1900

General Session
Plaza Ballroom BC
1400 - 1730

Professional Networking Reception
Lower Foyer
1730 - 1900

TUESDAY, 28 AUGUST
Continental Breakfast
Lower Foyer
0730 - 0830

General Session & Ignite
Plaza Ballroom BC
0830 - 1430

Exhibits Open
Lower Foyer
0945 - 1900

Tutorials
Plaza Ballroom I-III
1130 - 1530

General Session
Plaza Ballroom BC
1600 - 1730

Professional Networking Reception/Poster Session
Lower Foyer
1730 - 1900

WEDNESDAY, 29 AUGUST
Continental Breakfast
Lower Foyer
0730 - 0830

Paper Sessions
Plaza Ballroom I-III
0830 - 1200

Exhibits Open
Lower Foyer
1000 - 1330

Closing Luncheon
Terrace Room
1200 - 1330

EVENT INFORMATION

LOCATION	Hilton Alexandria Mark Center 5000 Seminary Road Alexandria, VA 22311
EVENT THEME	FUTURE LEARNING ECOSYSTEM: Learning data & analytics, interoperability, and learning science.
WIFI	Network: HILTON_MEETING Password: iFest2018
ATTIRE	Civilian: Business Military: Uniform of the day
SURVEY AND PARTICIPANT LIST	You'll receive via email a survey and list of attendees (name and organization) after the conference. Please complete the survey, which helps make our event even more successful in the future.
HARASSMENT STATEMENT	NDIA and their affiliates are committed to providing a professional environment free from physical, psychological and verbal harassment. NDIA and their affiliates will not tolerate harassment of any kind, including but not limited to harassment based on ethnicity, religion, disability, physical appearance, gender, or sexual orientation. This policy applies to all participants and attendees at NDIA and affiliate conferences, meetings and events. Harassment includes offensive gestures and verbal comments, deliberate intimidation, stalking, following, inappropriate photography and recording, sustained disruption of talks or other events, inappropriate physical contact, and unwelcome attention. Participants requested to cease harassing behavior are expected to comply immediately, and failure will serve as grounds for revoking access to the NDIA or affiliate event.

SAVE THE DATES

2018 FALL SIMULATION INNOVATION WORKSHOP (SIW)

September 10–14, 2018
Orlando, FL
(Sponsored by SISO / Supported by NTSA)

NATIONAL MODELING & SIMULATION COALITION (NM&SC) NATIONAL MEETING
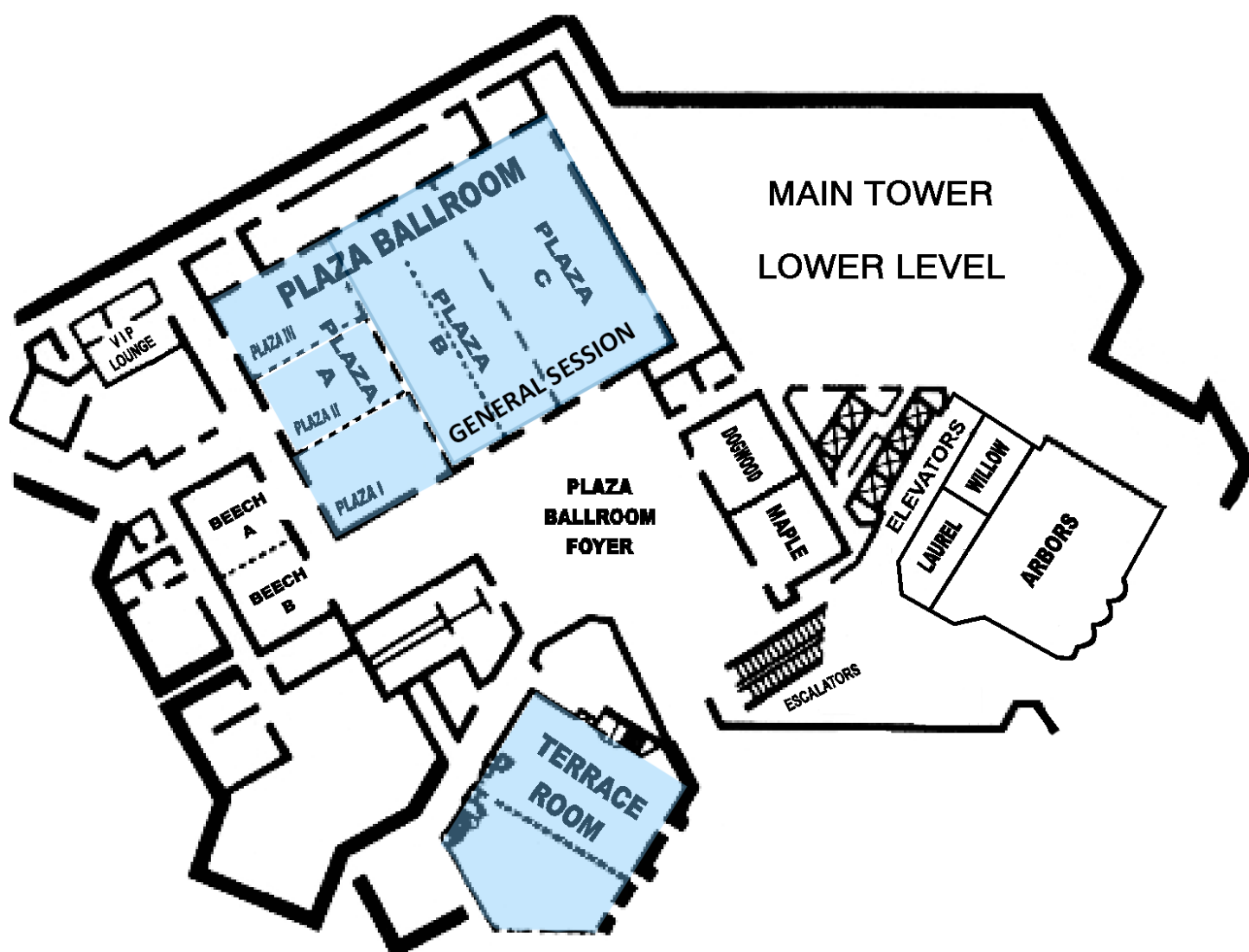
September 25–26, 2018
Omaha, NE

INTERSERVICE/INDUSTRY TRAINING, SIMULATION & EDUCATION CONFERENCE (I/ITSEC) 2018

November 26–30, 2018
Orlando, FL

TrainingSystems.org/events

HOTEL MAP

MAIN TOWER

LOWER LEVEL

PLAZA BALLROOM

PLAZA III

PLAZA A

PLAZA II

PLAZA I

PLAZA B

PLAZA C

GENERAL SESSION

PLAZA BALLROOM FOYER

VIP LOUNGE

BEECH A

BEECH B

TERRACE ROOM

DOGWOOD

MAPLE

ESCALATORS

ELEVATORS

WILLOW

LAUREL

ARBORS

AGENDA

SUNDAY, AUGUST 26 | HACKATHON *Pre-registration required.*

REGISTRATION OPENS 1200

BEGINS 1300 (24 HOURS)
1901 N. BEAUREGARD STREET, SUITE 600, ALEXANDRIA, VA 22311

MONDAY, AUGUST 27

1300

REGISTRATION AND EXHIBITS OPEN
Hackathon Concludes

1400–1425

WELCOME ADDRESS
PLAZA BALLROOM BC

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

OPENING COMMENTS
Dr. Sae Schatz
ADL Initiative

Dr. Jennfier Vogel-Walcutt
ADL Initiative

1425–1530

KEYNOTE PRESENTATIONS
PLAZA BALLROOM BC

Government	Industry
Mr. Fred Drummond, SES	Dr. Bror Saxberg
Deputy Assistant Secretary of Defense for Force Education and Training	Vice President, Learning Science Chan Zuckerberg Initiative

1530–1600

BREAK AND EXHIBIT TIME
LOWER FOYER

1600–1730

FACILITATED SESSION: LEARNING ENGINEERING
PLAZA BALLROOM BC

Mr. Avron Barr
IEEE's Learning Technology Standards Committee
Moderator

Dr. Bror Saxberg	Mr. T.J. Seabrooks
VP Learning Science, Chan Zuckerberg Initiative	Rustici Software
Mr. Paul Jesukiewicz	Dr. Michelle Barrett
Office of Personnel Management (OPM)	ACT

1730–1900

PROFESSIONAL NETWORKING RECEPTION
LOWER FOYER

0730–0830 **CONTINENTAL BREAKFAST**
LOWER FOYER

0830–0845 **DAY 2 WELCOME**
PLAZA BALLROOM BC

ADL Initiative

0845–0945 **BREAKING DOWN THE STOVEPIPES TO TALENT MANAGEMENT ROUND TABLE**
PLAZA BALLROOM BC

Dr. Jennifer Vogel-Walcutt
ADL Initiative
Moderator

Mr. Gerald Leach
Department of Treasury

Mr. Arlyn 'Reese' Madsen, SES
Department of Defense (Intelligence)

Dr. Suzanne Logan
Office of Personnel Management (OPM)

BG Joseph McGee
U.S. Army

0945–1015 **BREAK AND EXHIBIT TIME**
LOWER FOYER

1015–1115 **IGNITE! PRESENTATIONS: COMPETENCIES AND CREDENTIALING**
PLAZA BALLROOM BC

USAF Competency-based Learning
Dr. Matthew Stafford
Air Education and Training Command

Learning Continuum and Performance Aid
LCDR Pete Walker
Office of Naval Research

Career Path DECIDE
Ms. Dawn Bilodeau
DoD Voluntary Education

Lumina Goal 2025
Mr. Jesse O'Connell
Lumina Foundation

Credential Engine
Ms. Jeanne Kitchens
Southern Illinois University

Competency and Skills System
Mr. Elliot Robson
Eduworks Corporation

University of Wisconsin Competency-based Degrees
Ms. Andrea Deau
University of Wisconsin-Extension

1115–1130   **BREAK AND EXHIBIT TIME**
LOWER FOYER

1130–1215   **PARALLEL TUTORIALS**

Design for DL in the Social Age
PLAZA I

Dr. Julian Stodd
Sea Salt Learning

Exploring Commercial xAPI/LRS Training Technology Strategies for DoD
PLAZA II

Mr. Nick Washburn
5th Logic

Current Directions in Learning Technology Standards
PLAZA III

Mr. Avron Barr
IEEE Learning Technology Standards Committee

1215–1330   **LUNCH AND EXHIBIT TIME**
TERRACE ROOM AND LOWER FOYER

1330–1430   **IGNITE! PRESENTATIONS: LEARNING DATA**
PLAZA BALLROOM BC

xAPI TAG
Mr. Shelley Blake-Plock
Yet Analytics, Inc.

Learning and Big Data
Dr. Prasad Ram
Gooru

Total Learning Architecture: The Big Picture
Dr. Dylan Schmorrow
Soar Technology, Inc.

USALearning and DoD IT Reform COA 2
Mr. Paul Jesukiewicz
Office of Personnel Management (OPM)

How Do You Know It's a Good Test?
Mr. Joe Fish
Questionmark

Way-Ahead for xAPI
Mr. Andy Johnson
ADL Initiative

Hackathon Results
Mr. Brent Smith
ADL Initiative

1115–1130   **BREAK AND EXHIBIT TIME**
LOWER FOYER

1445–1530   **PARALLEL TUTORIALS**

Putting the DoDI 1322.26 into Practice
PLAZA I

Mr. T.J. Seabrooks
Rustici Software

Continuity and Engagement in an Open Ecosystem: Challenges and Approaches
PLAZA II

Dr. Benjamin Nye
Institute for Creative Technologies

Diving In: A Behavioral Scientist's Guide to Analyzing xAPI-Based Data Lakes
PLAZA III

Dr. Gregory Goodwin
Army Research Laboratory

1530-1600   **BREAK AND EXHIBIT TIME**
LOWER FOYER

1600-1730   **THE PERCEPTION OF "NO": DELETING THE BARRIERS TO ENTERPRISE MODERNIZATION**
PLAZA BALLROOM BC

Dr. Sae Schatz
ADL Initiative
Moderator

Mr. John Bergin, SES
IT & Business Reform, U.S. Department of Defense

Mr. Frank Kelley
Defense Acquisition University

Mr. Morgan Plummer, SES
National Security Technology Accelerator ("MD5")

Mr. Sanjay Sardar
SAIC

1730-1900   **PROFESSIONAL NETWORKING RECEPTION – EXHIBITOR/POSTER SESSION**
LOWER FOYER

SISO Simulation Interoperability Standards Organization
"Simulation Interoperability & Reuse through Standards"

2018 FALL SIMULATION INNOVATION WORKSHOP (SIW)
LEVERAGING THE POWER OF SIMULATION

September 10 – 14 | The Florida Hotel and Conference Center | Orlando, FL | **Training Systems.org/Events**

The Fall SIW will feature:
Subject matter experts from industry, government and academia.
Strong representation from NATO and the U.S. military services.

Keynote Speakers
- Mr. Leigh Yu, Deputy Director, DM&SCO
- Col Robert Epstein, USAF, Commander, AFAMS
- Dr. Elizabeth D'Andrea, Senior Consultant, SimVentions Inc. (former PM for EM Railgun program at ONR)

Tutorials on a wide range of subjects.

Peer-reviewed papers covering three tracks:
- System Life-Cycle and Technologies
- Services, Processes, Tools, and Data
- M&S Specialty Applications

Numerous Working Group sessions on specific standards and technical topics.

See full details and register at **TrainingSystems.org/events**

WEDNESDAY, AUGUST 29

0730–0830   **CONTINENTAL BREAKFAST**
LOWER FOYER

Concurrent Paper Sessions

0830–1000	**xAPI in the Wild** PLAZA I	**Next Generation e-Learning** PLAZA II	**Learning Science for the Future** PLAZA III
	Using xAPI in Adaptive Virtual Learning **Mr. Scott Bybee** CAE USA **Mr. Martin Bogan** CAE USA	**Five Reasons Why CMI5 is Better Than SCORM** **Mr. Art Werkenthin** RISC, Inc.	**Microlearning as Part of the Learning Ecosystem to Meet Compliance** **Dr. Anne Little** SAIC
	Learning Analytics with xAPI In The Viking 18 Exercise **Dr. Aaron Presnall** The Jefferson Institute	**Moving Content Forward from SCORM To CMI5** **Mr. George Vilches** JCA Solutions	**Changing the Learning Strategy: Informal Methods for Enhancing a Learning Ecosystem** **Dr. Krista Ratwani** Aptima, Inc.
	Prototyping a Modernized Navy Personnel Qualification Standard (PGS) Program **Dr. JT Folsom-Kovarik** Soar Technology, Inc.	**The Airman Learning Record and an Open Source Learning Ecosystem at USAF Air Mobility Command** **Mr. Michael Smith** ICF International	**Beyond Training: Next Generation Knowledge Transfer** **Mr. Yasir Saleem** Adobe Systems Federal **Mr. Jeffrey Young** Adobe Systems Federal

1000–1030   **BREAK & EXHIBIT TIME**
LOWER FOYER

Concurrent Paper Sessions

1030–1200	Competencies and Credentialing PLAZA I	Fusing Learning and Data Sciences PLAZA II	Governance, Acquisition, and Cybersecurity PLAZA III
	Workforce Development Design from Authoritative Competency Sources **Mr. Scott Cheney** Credential Engine **Dr. Wayne Gafford** OPNAV N12 **Ms. Jeanne Kitchens** Southern Illinois University **Ms. Lisa Lutz** Solutions for Information Design, LLC **Mr. Fritz Ray** Eduworks Corporation	**A Taxonomy for Data Capture In VR and AR** **Mrs. Dottie Lindsey** JCA Solutions	**Learning Analytics for the DI Courseware Factory: Analysis, Solutions, Approved Capability Requirements to Support Them, and Way-Ahead** **Dr. Mitchell Bonnett** The Army Distributed Learning Program
	Demystifying Pathways: Competency Pathways vs. Credential Pathways vs. Content Pathways **Mr. Jim Goodell** QIP/CEDS **Ms. Jeanne Kitchens** Southern Illinois University **Mr. Fritz Ray** Eduworks Corporation	**Learning Analytics and Data Visualizations Within xAPI-Enabled Ecosystem** **Mr. Shelley Blake-Plock** Yet Analytics, Inc.	**FedRAMP** **Ms. Ashley Mahan** GSA
	Creating and Cross-Walking Competencies Using Case and OpenSALT **Mr. Joshua Marks** Public Consulting Group	**Ai-Constructed Competencies Based Adaptive Learning Profiles** **Dr. Harri Ketamo** HeadAi	**Cybersecurity and Research Projects** **Mr. Miguel "Mike" Hernandez** ADL Initiative **Mr. Michael Neeley** ADL Initiative

1200–1330   **LUNCH AND EXHIBIT TIME**
TERRACE ROOM

Closing Remarks
Acknowledgements

POSTER INDEX

Adaptive Personalized Deep Learning Platform as a Core of Future Learning Eco-Systems

Dr. Vlad Goodkovsky

iTutorSoft

Assessing Learner State through the Fusion of Multiple Measurement Modalities

Zachary Kiehl

Aptima, Inc.

Assessing the TLA: Spiral Two

Dr. Shane Gallagher

Institute for Defense Analyses

Authoring and the Science of Learning in Total Learning Architecture

Kathleen Bartlett

Soar Technology, Inc.

Growing xAPI Interoperability with Profiles

Megan Bowe

DISC

Identifying Human Performance Shortcomings in Data Comprehension: Advanced Technology Remediation

CDR Dan Davis

University of Southern California

Improve Mission Training Readiness: Data Analysis and Visualization

Christopher Doniec
Derrick Vincent

NORAD and USNORTHCOM

Individual Learner Factors for Recommending Content in the Total Learning Architecture

Kathleen Bartlett
Dr. JT Folson-Kovarik

Soar Technology, Inc.

Learning Management of Operational Data in Personalized Training Systems

Alan Carlin

Aptima, Inc.

Learning Navigator - a "GPS for Learning"

Dr. Prasad Ram

Gooru

Personalized eBooks for Learning PeBL

Elliot Robson

Eduworks Corporation

Privacy Support for the Total Learning Architecture

Dr. Bart Knijnenburg

Clemson University

Project DAVE: The Data Analytics and Visualization Efficiency Framework for xAPI and the Total Learning Architecture

Shelly Blake-Plock

Yet Analytics, Inc.

Sleight of Hand: Leveraging Hand-movement Data in Virtual Learning Environments

Anna Madison

Vertex Solutions

Standardization of Adaptive Instructional Systems (AIS) and other ITS with xAPI statements

Dr. Xiangen Hu

The University of Memphis

Targeted Learning System Theory and Adaptive Flight Training

Travis Sheets

U.S. Air Force

The Challenges of Granularity

Brian Moon

Perigean Technologies

VIKING18 Learning Analytics Dashboard

Biljana Presnall

The Jefferson Institute

ROLE OF MODELING, SIMULATION & VISUALIZATION (MS&V) IN HEALTH CARE

Dr. Jeffrey P. Gold
Chancellor, UNO & UNMC

KEYNOTE SPEAKERS

Daniel Serfaty
President/CEO, Aptima

Dr. Robert Amyot
President, CAE Healthcare

CONFERENCE PANELS

**Human Performance & Effectiveness:
MS&V - Training To Competence**
Dr. Winston Bennett, AFRL
Moderator

**Developing The Future
Workforce For Ms&V:**
Mats Johansson, EON Reality
Moderator

**MS&V For Predictive
Leadership And Decision-Making**
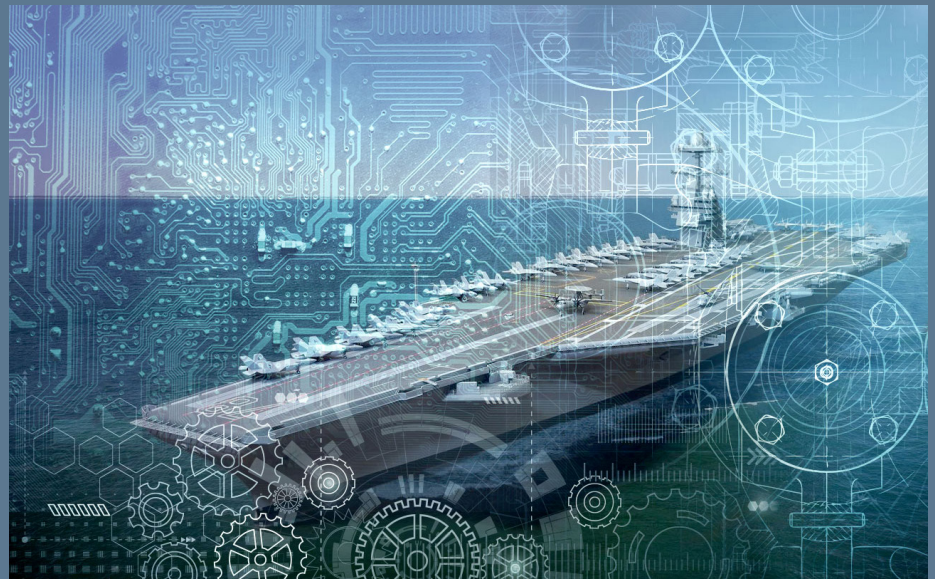Marisa Fish, USSTRATCOM
Moderator

MS&V: The Future Is Here
Dr. Walter Greenleaf, Stanford University
Moderator

NDIA

21ST ANNUAL SYSTEMS ENGINEERING CONFERENCE

October 22-25 | Tampa, FL
NDIA.org/SE18

This conference will focus on improving acquisition and performance of Defense programs and systems, including system - of - systems engineering, systems security, net-centric operations and data/information interoperability, and all aspects of system sustainment.

This conference seeks to create an interactive forum for Program Managers, Systems Engineers, Chief Scientists, and Engineers and Managers from the Requirements, Design, Verification, Support, Logistics and Test communities from both Government and Industry.

The conference will provide the opportunity to shape policy and procedures by exchanging innovative tactics and lessons learned.

KEYNOTE BIOGRAPHIES

GOVERNMENT KEYNOTE – MONDAY, 27 AUGUST | 1425 – 1500 | PLAZA BALLROOM BC

FRED DRUMMOND, SES

Deputy Assistant Secretary of Defense for Force Education and Training
Office of the Assistant Secretary of Defense for Readiness

Mr. Charles (Fred) Drummond serves as the Deputy Assistant Secretary of Defense for Force Education and Training in the Office of the Assistant Secretary of Defense for Readiness. In this role, he oversees the development of policies and plans for military training and education. His responsibilities include Service and joint training policy, cyber training policy, professional military education, training capability modernization, and enabling access to the land, air, and sea live training domains. Mr. Drummond leads several voluntary education programs to include Troops to Teachers and the Tuition Assistance program. He is responsible for policy and oversight of financial readiness and to educate the force on the new Blended Retirement System. He also leads the Defense Language and National Security Education Office in their efforts to recruit, train, sustain, and enhance language and culture capabilities to ensure national security and readiness. Mr. Drummond oversees the Advanced Distributed Learning Initiative to encourage collaboration among federal agencies, facilitate interoperability, and promote best practices for using distributed learning to provide the highest-quality, cost effective education and training programs. He also oversees DoD's Licensing and Credentialing policies to assist Service members in effectively translating their military skills and experience into the civilian workforce.

INDUSTRY KEYNOTE – MONDAY, 27 AUGUST | 1500 – 1530 | PLAZA BALLROOM BC

DR. BROR SAXBERG

Vice President, Learning Science
Chan Zuckerberg Initiative (CZI)

As Vice President, Learning Science, Bror Saxberg is responsible for CZI's thinking about how to expand and apply learning science results and good learning measurement practice at scale to real-world learning situations across the full span of learning – pre-K, K-16, and beyond.

Saxberg most recently served as Chief Learning Officer at Kaplan, Inc. where he was responsible for the research and application of innovative evidence-based learning strategies, technologies, and products across Kaplan's full range of educational services offerings. He also worked to maintain consistent learning standards for Kaplan's products and services.

Saxberg speaks often at education, business, and public policy conferences, including: recent appearances at Microsoft's CEO Summit, TEDx, the Stanford Digital Learning Forum, and the "Education Datapalooza" conference, hosted by the White House and US Department of Education. He is the co-author of "Breakthrough Leadership in the Digital Age" (2014) with Frederick M. Hess. His articles have been published in a host of academic, educational, and scientific journals.

Saxberg previously served as Senior Vice President and Chief Learning Officer at K12, Inc., where he was responsible for designing both online and offline learning environments and developing new student products and services. Prior to joining K12, Inc., he was Vice President at Knowledge Universe, where he co-founded the testing and assessment division which became known as Knowledge Testing Enterprises (KTE).

Saxberg began his career at McKinsey & Company, Inc. and later served as Vice President and General Manager for London-based DK Multimedia, part of DK Publishing, an education and reference publisher.

Saxberg holds a B.A. in Mathematics and B.S. in Electrical Engineering from the University of Washington, both received in 1980. As a Rhodes Scholar, he received a M.A. in Mathematics from Oxford University, and also received his Ph.D. in Electrical Engineering and Computer Science from Massachusetts Institute of Technology in 19 as well as a M.D. from Harvard Medical School in 1990.

LEADERSHIP BIOGRAPHIES

RADM JAMES A. ROBB, USN (Ret)

President
National Training & Simulation Association

Rear Admiral James A. Robb graduated from Rensselaer Polytechnic Institute in 1972, earned a Master's of Science degree from the University of West Florida in 1973, and was designated a Naval Aviator in 1974. Promoted to Flag rank in January 1999, he served in increasing positions of responsibility in the Navy until his transition from active duty in March 2006.

His final assignment at sea was in command of the USS John C. Stennis Carrier Strike Group consisting of nine ships and over 8,000 sailors. Here he led the West Coast maritime response to 9/11 and prepared the Battle Group for support of operations in Afghanistan. Earlier, he commanded Carrier Air Wing Nine embarked in USS NIMITZ where he was Strike Warfare Commander for naval forces supporting operation Southern Watch/Desert Storm. He also served as Deputy Commander for Carrier Air Wing Eleven, and commanded the "Screaming Eagles" of Fighter Squadron Fifty One.

Following 9/11, RADM Robb was assigned to the US Central Command as the Director of Plans, Policy and Coalition Affairs. In this capacity he developed strategic and operational plans guiding U.S. and Coalition efforts in the Middle East and was a key member of the forward deployed Battle Staff directing operations Enduring and Iraqi Freedom.

Admiral Robb is also a recognized expert in operational tactics and training, serving as an instructor, test pilot and demonstration pilot in the F-14 TOMCAT. He was Lead Project Pilot and Officer in Charge of Navy/Marine Corps Special Operations flying Russian fighter aircraft in the Tonopah Test Ranges and later commanded the Navy Fighter Weapons School also known as TOPGUN.

During his career, he deployed nine times to every major theater of operations, logging over 5,000 flight hours and more than 1,000 carrier landings. Following transition from the Navy, Admiral Robb started an independent consultant business specializing in Strategic Planning and Enterprise process improvement.   Admiral Robb assumed the presidency of NTSA on June 1, 2012.

NTSA | NATIONAL TRAINING & SIMULATION ASSOCIATION

Discover the many benefits of NTSA corporate membership

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.

Corporate Membership Options

Sustaining

- $5,000 in dues
- First choice of booth space (during I/ITSEC)
- 10% discount on booth space for I/ITSEC (Maximum discount = $5,000)
- Seat on Executive Committee and Invitation to M&S Awards Dinner
- Additional exposure at I/ITSEC

Regular

- $1,250 to $2,500 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

- $500 in dues; designed for smaller companies
- Third round of booth space selection (in late February)
- No discount on booth space for I/ITSEC

All corporate members of NTSA receive these core benefits:

- Reduced registration fees for all employees for all NTSA & NDIA events
- Member listing with hyperlink on the NTSA website
- NTSA's monthly e-newsletters
- National Defense, NDIA's award-winning magazine

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VISIT TRAININGSYSTEMS.ORG/MEMBERSHIP, CONTACT PATRICK ROWE AT PROWE@NDIA.ORG

DR. SAE SCHATZ

Director
ADL Initiative

Dr. Sae Schatz serves as the Director of the Advanced Distributed Learning (ADL) Initiative, a research and development program under the Deputy Assistant Secretary of Defense for Force Education and Training. Before joining the Government in 2015, Sae worked as an applied human–systems scientist, with an emphasis on human cognition and learning, instructional technologies, adaptive systems, human performance assessment, and modeling and simulation. During that time, she led the authorship and execution of the Marine Corps' Making Good Instructors 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.

Sae 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 3 military textbooks, and received professional recognition for her publications and research, including best paper awards from the I/ITSEC and MODSIM conferences.

Sae also maintains close ties with her alma mater, the University of Central Florida. She formerly held an assistant professor position with the university, and she previously taught courses in visual design, web design and development, modeling and simulation, and human–systems interaction. Today, she continues to mentor UCF graduate students from the Institute for Simulation and Training, and she serves on the Digital Media Advisory Board.

### DR. JENNIFER VOGEL–WALCUTT

Director of Innovation
ADL Initiative

Dr. Jennifer Vogel-Walcutt is the Director of Innovation at the Advanced Distributed Learning (ADL) Initiative under the Office of the Undersecretary of Defense for Personnel and Readiness. She has over 15 years of experience in research and development for training and education with specific interests in applying instructional techniques to improve the effectiveness and efficiency of cognition and educational development. In her role at the ADL Initiative, Dr. Vogel-Walcutt focuses on promoting the science of learning and human-centric design, which complement the technology prototypes and specifications produced by the program. In particular, she is focused on exploring cognition, learning, and the integration of learning science into one of the ADL Initiative's current efforts involving the development of the Total Learning Architecture, an interoperability "backbone" designed to facilitate ubiquitous lifelong learning and data-driven learning personalization.

PRESENTER BIOGRAPHIES
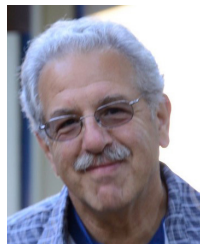
AVRON BARR

IEEE's Learning Technology Standards Committee

Avron Barr serves as Chair of the IEEE's Learning Technology Standards Committee and has had a life-long interest in the impact of AI technologies on education and training. While a graduate student at Stanford, he helped develop some of the earliest adaptive elearning software; edited the four-volume Handbook of Artificial Intelligence; and co-founded a Silicon Valley software startup called Teknowledge. Since then, he has worked with dozens of companies, startups, government agencies, and NGOs to help them understand, explain, and market advanced software technologies.

During the 1990's, Avron co-directed a study of the global software industry at Stanford's Graduate School of Business and taught in the Executive Education program there. In recent years, he's been on the Advisory Board for a major DARPA project on game-based training. He taught a popular freshman seminar at Stanford for ten years on The Business of the Internet. He currently helps organizations and entrepreneurs think about learning systems architecture and bridging the gap between learning science research and successful market innovation.

DR. MICHELLE BARRETT

ACT

As the Vice President of Research Technology, Data Science, and Analytics at ACT, Dr. Michelle Barrett is responsible for developing cutting-edge research platforms with quality data for new algorithm development and for implementing resulting methods as near-real time analytics in products and services that help people achieve education and workplace success. Throughout her career, Dr. Barrett has led and empowered teams of scientists, analysts, engineers and technologists to build data pipelines and analytic engines, such as those that deliver adaptive assessments, examine learning interactions, score text and other artifacts written by learners, identify testing anomalies, generate psychometric analytics, and construct assessments to support intended uses. Dr. Barrett's background includes engineering, teaching, education administration, psychometrics, statistics, product management, agile, and lean six sigma. She has worked in both start-up and corporate enterprise environments, for-profit and not-for-profit, and in public service at the Colorado Department of Education and as a mathematics teacher. Dr. Barrett holds degrees from Stanford University, Harvard University, and the University of Twente. Dr. Barrett currently chairs the IEEE ICICLE SIG on AI and Adaptive Technology and serves as a reviewer for multiple peer-reviewed journals. In the past she also served on the IMS Global Working Group for adaptive testing standards.

JOHN BERGIN, SES

U.S. Department of Defense

Mr. John Bergin has been a member of the Senior Executive Service since September 2017. In October 2017, he was appointed the Department of Defense's Information Technology (IT) and Business Systems Reform Lead. This effort expands his Business Technology Officer role. As the IT and Business Systems Reform Lead, he is responsible for working across the Department to identify and deploy business systems and operational processes that support business reforms, reduce the total number of systems, and ensure systems have the necessary controls to support audit and information integrity. In February 2015, Mr. Bergin was appointed the Business Technology Officer for the Department of Defense's Chief Information Officer. He is charged to right-size the Department's IT infrastructure by identifying and supporting the implementation of best value capabilities that were focused on Health IT and the Department's integration with mission partners. He also served as primary IT lead for the Department-wide Cross Functional Team for Defense Travel Modernization, in support of the Secretary of Defense designated efficiency efforts. The efficiencies effort have delivered $4 billion in captured savings.

DAWN BILODEAU

Office of the Assistant Secretary of Defense for Readiness, Force Education and Training

Ms. Dawn Bilodeau is the Director, DoD Voluntary Education Programs, Office of the Assistant Secretary of Defense for Readiness, Force Education and Training. In this capacity, she is responsible for oversight and administration of adult, non-traditional, continuing, and higher education programs, certification and licensure, job skills training, and apprenticeship programs for the DoD worldwide. Ms. Bilodeau champions DoD policies, programs, and partnerships that enable access to quality educational opportunities, empower informed Service member decision-making, shape meaningful personal and professional pathways, and drive success in careers for over a half million Service members each year. During her nearly 20 year career in military voluntary education, she has served from Kentucky to Kosovo with multiple assignments to the Washington, DC area. Her military ties are strong as the spouse of a Marine Corps and Army Veteran and the daughter of an Air Force Veteran. Ms. Bilodeau has a Master's Degree in Educational Administration and Supervision from Arizona State University.

SHELLEY BLAKE–PLOCK

Yet Analytics, Inc.

Shelly Blake-Plock is co-founder, President, and CEO of Yet Analytics, Chair of the IEEE Learning Technology Standards Committee Technical Advisory Group on xAPI (TAGxAPI), Chair and Managing Editor of the IEEE IC Industry Consortium on Learning Engineering, and Treasurer of the IEEE Learning Technology Standards Committee.

MARTIN BOGAN

CAE USA

Martin Bogan is a training solutions expert and multimedia design lead for CAE USA's Instructional Systems Group. Over the past 10 years, he has led several innovation projects in the areas of courseware design, virtual reality and use of xAPI. Martin has contributed to the xAPI standard with a recent submission of a new xAPI profile consisting of Department of Defense verbs and metadata for use in all military training.

DR. MITCHELL BONNETT

The Army Distributed Learning Program

His office researches and develops learning technology standards and specifications for DL Courseware (CW) and develops Army policy for its use within the ADDIE processes for close to a dozen different categories of Interactive Multimedia Instructional (IMI) types of learning technology. His office developed and monitors the DL Metrics system of learning analytics that identifies specific issues within deployed CW, predicts effects upon other CW, triages CW for repair or retirement, and informs other CW development teams of issues to avoid. He manages the Army's Diagnostic, Advisement and Technical Research (DATR) team that diagnoses difficult CW issues to determine causal factors, identify corrective measures, document and distribute solutions, and based on those findings update Army CW standards and specifications that may affect DOD and Industry standards and specifications. He is a member of the IEEE, its Computer and Education Societies, its Standards Association and its Learning Technology Standards Committee.

SCOTT BYBEE

CAE USA

Scott Bybee is the Tech Lead for Instructional Design at CAE USA. He is a training leader with over 20 years of experience in the industry, including working as a learning technologist with a world-class learning and development team, one that has been recognized in Training Magazine's Hall of Fame for top performances across several years. Finding innovative ways to deploy training is a cornerstone of Scott's work in the industry.

SCOTT CHENEY

Credential Engine

Scott Cheney is Credential Engine's first Executive Director where he leads the organization's efforts to bring transparency to credentials and reveal the marketplace of credentials. Scott has over 25 years of experience in, and brings a multi-faceted perspective to, developing the skills of the U.S. workforce. His experience includes shaping national policy for U.S. Senator Patty Murray (D-WA) and the U.S. Senate Health, Education, Labor and Pensions Committee, developing regional workforce and economic development strategies, working with multinational, high-road employers on their investments in training, and establishing and managing adult literacy programs. His first paycheck in this career path came from Dr. Seuss.

ANDREA DEAU

University of Wisconsin-Extension

Andrea is the Senior Director for information technology at the University of Wisconsin System, Continuing Education, Outreach & E-Learning where she leads a growing IT organization to develop and support the technical infrastructure for the University of Wisconsin-System's Competency Based Education (the UW Flexible Option) and other online degrees and programs for adult learners. Currently she is working to facilitate a new comprehensive learner record technology centered around digital credentialing, interoperability standards, achievements and competencies, reimagining the traditional approach to transcripts and career services. Andrea began her career as a classroom teacher before pursuing a career in the technology field. She has held roles directing enterprise academic technology in higher education, and building community across WiscNet, Wisconsin's Research & Education Network member cooperative. She holds an MS in Educational Leadership and a BA in Education.

JOE FISH

Questionmark

As Chief Product Officer, Joe Fish works with Questionmark's senior managers, customers and prospective customers to determine and direct product strategy; then leads, inspires, and guides the Product Management and Product Development teams to build and successfully deploy product deliverables. His extensive background includes leadership roles with the United States Army, physical and virtual product development, and 25 years leading product development for internet delivered products and services.

DR. JT FOLSOM–KOVARIK

Soar Techology, Inc.

J.T. Folsom-Kovarik, PhD is the lead scientist at Soar Technology, Inc. for adaptation and assessment within intelligent training. His research combines modern data science and machine learning approaches with SoarTech's long experience in modeling expert knowledge and human experience. When expert knowledge guides machine learning and data analytics algorithms, they become more applicable and useful in real-world training settings. The combination of approaches can remain feasible when available data is small, concepts evolve over time, or nontechnical users need to control the training.

DR. WAYNE GAFFORD

OPNAV N12

Wayne currently works at OPNAV N12 (Manpower, Personnel, Training, & Education). He leads a Cooperative Research and Development Agreement (CRADA) between The Navy and Credential Engine. That team is mapping system maintenance, operations, and troubleshooting standards to the Credential Transparency Description Language/ Achievement Standards Network (CTDL/ASN) and to curriculum aggregation models in the S1000D technical data specification, as well into the xAPI Profile. This CRADA mapping work is foundational to an OPNAV N12 effort he is leading called Acquisition Requirements for Training Transformation, or The ARTT Project. The ARTT Project is integrating technical training data and applications into Product Lifecycle Management software. One of the shared goals of the projects is to directly extract competency frameworks from maintenance and operation plans. Wayne worked at ADL from 2006 through 2012 where he laid the early standards groundwork for integrating technical data and training.

JIM GOODELL

QIP/CEDS

Jim Goodell is a recognized expert on data standards and learning technologies. He leads standards development for the Common Education Data Standards and works with stakeholders from early learning, K12, postsecondary, workforce and military training organizations. Jim has also been a voice in national and international education technology standards initiatives and has delivered numerous presentations at national data, interoperability, and advocacy meetings and conferences. "A shift is taking place in the way data is used to support learning and development," Jim says. "Student-centered learning requires different processes and data than traditional classroom models and accountability systems." Jim co-authored a paper on integrated systems for student-centered learning and developed a best-practice guide on the teacher-student data link. He has been an invited speaker at numerous conferences on education data standards, educational technology, formative assessment, applied learning sciences, and change management.

GREGORY GOODWIN

Army Research Laboratory

Gregory A. Goodwin, Ph.D. is a Senior Research Scientist at the Paul Ray Smith Simulation and Training Technology Center in Orlando, FL. Dr. Goodwin earned his Ph.D. in Psychology from Binghamton University with a focus on developmental biopsychology. He completed a post-doctoral fellowship at Columbia University College of Physicians and Surgeons and then worked as a research associate at Duke University before joining the faculty at Skidmore College. He left Skidmore in 2005 to join the Army Research Institute and later the Army Research Laboratory. For the last 13 years, he has been researching ways to use technology to improve training efficiency and effectiveness for the Army.

MIGUEL "MIKE" HERNANDEZ

ADL Initiative

Mr. Miguel "Mike" Hernandez is a US Army veteran and systems engineer who has contributed to many innovative efforts to improve the training technologies available to the defense and security communities. He holds a Bachelor's degree in Electrical Engineering from Florida Atlantic University. He is currently supporting the Advanced Distributed Learning (ADL) Initiative as a SETA contractor providing technical oversight of multiple programs within the ADL portfolio. Through his previous work with the eSailor project, Sailor 2025, and intelligent tutors, he has gained valuable experience and a practical perspective on examining a new technology and assessing what is required for them to be integrated into a DoD environment. He views this tutorial as a way to bring a better understanding of balancing research with cybersecurity requirements to the iFest community.

PAUL JESUKIEWICZ

Office of Personnel Management (OPM)

Mr. Jesukiewicz is a leader in the field of learning technologies with over 30 years of experience working in government, industry, and academia. Successfully led research, development, and implementation of a global program on advanced distributed learning. He is an internationally-recognized thought leader in learning strategies, innovation and problem-solving; combined with a deep knowledge of learning technologies; augmented by a technical background, education, and experience in business development and program management (PM certified). He was inducted into the Federal Government Distance Learning Association (FGDLA) Hall of Fame in 2012 as recognition for significant career accomplishments in promoting and developing distance learning in the Federal Government. He is currently Director of the OPM USALearning Knowledge Portal.

ANDY JOHNSON

ADL Initiative

Andy Johnson has been working professionally in distributed learning technology for the last 15 years. He was a developer as the Sharable Content Object Reference Model (SCORM) emerged and was involved in every version of SCORM. He has been working at the Advanced Distributed Learning (ADL) Initiative, a research and development unit overseen by the Office of the Under Secretary of Defense for Personnel and Readiness (OUSD(P&R)), for a majority of his career, and is currently serving as the Experience API (xAPI) lead. He has designed competency-based content architectures supporting SCORM and xAPI for various government projects, most notably Joint Knowledge Online courses and a series of Pharmacy Technician Training courses designed for the Services by the Veterans Administration. Andy received both his Bachelor's degree in Computer Science and Master's degree in Education, Communication and Technology from the University of Wisconsin-Madison.

FRANK KELLEY

Defense Acquisition University

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

DR. HARRI KETAMO

HeadAi

Dr. Harri Ketamo is an entrepreneur with over 20 years experience in learning sciences, data sciences and artificialintelligence. Currently he is founder & chairman of HeadAI, a company developing natural language based cognitive artificial intelligence, and advisor for Edunation (higher education), BrainQuake (serious games) and Satakunta University of Applied Sciences (higher education). Furthermore, he is as an adjunct professor at Tampere University of Technology and a senior fellow at University of Turku.

Previously, Ketamo has been Academy of Finland -granted post-doc researcher, founder of gameMiner ltd (gameAI +data mining), director of education at Satakunta University of Applied Sciences and founder of SkillPixels ltd (seriousgames). He has published ~100 international peer-reviewed research articles and had more than 200 presentations in international forums. He has developed educational products and platforms (games, MOOCs, adaptive learning, learning analytics, artificial intelligence) that are used in more than 100 countries all over the world.

Ketamo has received several international awards and nominations related to his work, including Nordic SeriousGames Award 2008, European Innovative Games Award 2009 & World Summit Award 2010 with gameMiner, Microsoft AppAwards 2014, European EdTech Awards & BETT Awards 2014 with SkillPixels and Alibaba Cloud Contest 2017, Future ofWork Challenge 2017 & Challenge Finland 2017 with Headai. He is awarded the Eisenhower Fellowship in 2017.

JEANNE KITCHENS

Southern Illinois University, Center for Workforce Development

Jeanne Kitchens is the associate Director at the Southern Illinois University Carbondale, Center for Workforce Development. Over the past 20 years, she and her team have designed and implemented career and workforce development programs using technologies to improve access and engagement. Some current initiatives and programs include: Credential Transparency Description Language (CTDL) and Credential Registry services for Credential Engine, Talent Pipeline Management Web Tools for US Chamber of Commerce, Illinois workNet Web Portal System and Illinois Open Educational Resources for State of Illinois.
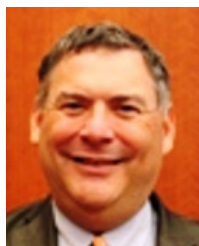
GERALD LEACH

Department of Treasury

Gerald "Jerry" Leach is on Detail to Department of Treasury as the Director Talent Management and Technologies. Jerry is response for the implementation of the Treasury-wide Integrated Talent Management System. Jerry was recently worked as Assistant to the Director Enterprise Computing Center within Information Technology and has served as an Initiative Director in the Office of Compliance Analytics, leading an portfolio of Examination case selection projects.

Jerry spent several years in the IRS Human Capital Office (HCO), where lastly, he was the Director, Planning Research and Support (PRS) leading an organization of over 50 skilled managers and employees to provide Business Systems Planning, Communications and Measures and Reporting. PRS delivers human capital management products, services and solutions that support the mission of the Human Capital Office.

DOTTIE LINDSEY

JCA Solutions

Dottie Lindsey is a lead developer at JCA Solutions, creating e-learning standards integration platforms and training customers in SCORM and xAPI best practices. Previously, she built Augmented Reality solutions for training on aircraft and automobiles. Her mixed-mode reality background combines with her SCORM and xAPI experience to develop world-class systems for high-speed data ingestion and analytics as well as content distribution for e-learning providers.

DR. ANNE LITTLE

SAIC

Anne Little, PhD is SAIC's Integrated Training Edge (SITE™) product manager. She has more than twenty years of training development and delivery experience and research interests including motivational strategies within online learning environments. She has leveraged her experience to design training programs for numerous federal clients, including theDepartment of Defense and the Department of Homeland Security. Most recently, her research has focused upon re-engineering compliance training programs. Dr. Little holds a PhD in Instructional Technology from George Mason University.

DR. SUZANNE LOGAN

Office of Personnel Management (OPM)

Dr. Suzanne Logan, a member of the Senior Executive Service, is a Deputy Associate Director of Human Resources Solutions within the U.S. Office of Personnel Management (OPM), who serves dual-hatted as the Director of the Center for Leadership Development and Director of the Federal Executive Institute (FEI). Serving in this capacity, she is responsible for all aspects of the U.S. government's career-long professional leadership development programs delivered through FEI and the two management development centers in Washington, D.C. and Denver, Colorado. In addition, she is responsible for the SES Leading EDGE program, USA Learning, OPM's Innovation Design Lab, the Presidential Management Fellows program, the Presidential Executive Fellows program, the International Leadership Development program, Performance and Process Improvement program, and the Federal HR Institute.

Before joining FEI, Dr. Logan served as the U.S. Air Force's Chief Academic Officer for Officer Education and the Chief Academic Officer, Air War College at Air University, Maxwell Air Force Base, Alabama. Prior to her service with the U.S. Air Force, Dr. Logan was Vice President of Academic Affairs for class.com, a private company formed by the University of Nebraska, where she held responsibilities for the development and delivery of a completely Internet-based worldwide academic program.

A seventeen-year academic administrator at Texas Tech University (TTU) and a member of the graduate faculty, Dr. Logan was the guiding force behind several groundbreaking academic initiatives, including the first virtual public school district in Texas, the university's first online Bachelor's and Master's degrees, and the largest kindergarten through Master's degree e-learning program in the country. She was one of the first members of Texas Tech's graduate faculty to teach courses using interactive video instruction and was the first to teach online courses over the worldwide web. She led the TTU to international prominence as a pacesetter in e-learning.

LISA LUTZ

SOLID

Lisa Lutz is president and co-founder of SOLID. She has over 25 years of experience conducting social science research and policy analysis. She has worked in this capacity at both the federal and state levels of government and as a consultant to public and private sector clients. This exposure to a wide range of organizational missions, subject matter areas, and stakeholder information needs has given her the ability to quickly grasp difficult subject matter, assess client needs, and develop effective solutions. Lisa's expertise spans many areas, including program evaluation, qualitative and quantitative research, workforce development, occupational and job analysis, and web project management. She has participated in and led numerous projects in these areas.

ARLYN "REESE" MADSEN, SES

U.S. Department of Defense

Reese Madsen was appointed the DoD Intelligence and Security Chief Learning Officer within the Under Secretary of Defense for Intelligence in January 2006. He is responsible for providing policy, oversight, and guidance to the training, education, and nationally accredited certification of civilian, military, and industry defense intelligence and security personnel within the Department of Defense. He is also the Chairman of the DoD Intelligence Training and Education Board (DITEB) and provides advice and counsel to the National Intelligence University's Board of Visitors. Mr. Madsen retired with 24 years of active duty experience from the U.S. Coast Guard. His was the services' Intelligence Workforce Manager, responsible for managing all Human Capital initiatives for the rapidly growing program. He held leadership and intelligence positions at all levels of the service and spent five years at sea on high endurance cutters patrolling from the Caribbean Sea to the Bering Sea and from the North Atlantic to the South Pacific.

ASHLEY MAHAN

FedRAMP

Ashley Mahan is the General Services Administration's (GSA) first Evangelist for the Federal Risk and Authorization Management Program (FedRAMP). Ashley is a trusted liaison between Federal Agencies, Industry Cloud Services Providers, and other stakeholder groups advocating for and facilitating the adoption of secure cloud technologies across the federal Government.

Ashley is responsible for managing FedRAMP's Agency engagement, outreach and customer experience activities, which consists of over 140 Federal Agencies and 180+ industry partners. Additionally, Ashley serves as a FedRAMP Subject Matter Expert (SME) in navigating the FedRAMP authorization process as well as aiding Agencies/Cloud Service Providers in achieving technical security compliance. She leverages collaboration and consensus building as key tools to bring together parties and people, and relishes the opportunity to pave a path towards secure cloud adoption and IT modernization in government for all agencies.

Ashley holds an M.S. in Information Technology, B.S. in Business and has a variety of project management and technology industry certifications to include PMP, ITIL, and Security+.

JOSHUA MARKS

Public Consulting Group

On staff with PCG since 2013, Joshua is a skilled and innovative leader in product design, management, research and development of educational software, content management and assessment solutions. His background includes over three decades applying emerging technologies to address market needs in e-learning, assessment, online and print publishing, content management, rich media distribution, and content discovery. Joshua is the co-chair of the IMS Global CASE(™) task force, and a long standing member of the LRMI technical working group as well as a contributor to many other industry interoperability initiatives. He is also one of the founders of the OER (Open Educational Resources) movement as founding CTO and on-going technical adviser to Curriki.org, and is a nationally recognized leader in the areas of open curriculum, communities of educational practice, assessment technology, learning resource metadata and systems interoperability with extensive experience leading standards initiatives. Joshua started his career as employee #20 of The Learning Company and published some of the most successful learning games during the dawn of the PC era.

BG JOSEPH MCGEE

U.S. Army

A native of Atherton, California, Brigadier General JP McGee serves as the Director of the Army's Talent Management Task Force. Most recently, he served as the Deputy Commanding General of Operations for Army Cyber Command at Fort Belvoir, Virginia. Commissioned as an infantry officer, he has commanded a battalion in Iraq and a brigade in Afghanistan. Brigadier General McGee is an alumnus of the Army's Senior Fellows Program having served as a National Security Affairs Fellow at the Hoover Institution at Stanford University in 2011. His work has been published in distinguished academic publications, including Stanford's Hoover Digest.

Brigadier General McGee is a graduate of the United States Military Academy at West Point, New York, the Command and General Staff College at Fort Leavenworth, Kansas, and Central Michigan University. Since September 11th, 2001, he has deployed to war zones ten times, serving in both conventional and special operations units. Brigadier General McGee also served as the Deputy Executive Assistant to the Chairman of the Joint Chiefs of Staff, Admiral Michael Mullen, from 2009 to 2010 and as the Executive Officer to the 38th Chief of Staff of the Army, General Raymond Odierno, from 2013 to 2015.

MICHAEL NEELEY

ADL Initiative

Michael Neeley is a Cyber Security Analyst supporting the Advanced Distributed Learning (ADL) Initiative. He has 10 years of experience supporting the development and lifecycle maintenance of projects, including experience in software engineering, systems administration, DoDAF architecture development, project management, and cyber security. He has supported both Department of Defense and private sector development projects including Joint Forces Command / Joint Staff J7, NWDC, Eastern Virginia Medical School, the Air Force Agency for Modeling and Simulation (AFAMS), the Program Executive Office for Simulation Training & Instrumentation (PEO STRI), and the ADL. Mr. Neeley holds a Bachelor's degree in Information Sciences with a concentration in Networking and Communications and is a current CISSP.

DR. BENJAMIN NYE

USC-ICT

Dr. Benjamin D. Nye is the Director of Learning Sciences at USC-ICT. Ben's major research interest is to identify best-practices in advanced learning technology, particularly for frontiers such as distributed learning technologies (e.g., cloud-based, device-agnostic) and socially-situated learning (e.g., face-to-face mobile use). His research interests include modular intelligent tutoring system (ITS) designs, modeling social learning and memes, cognitive agents, and educational tools for the developing world and low-resource/low-income contexts. He received his Ph.D. in Systems Engineering from the University of Pennsylvania in 2011.

JESSE O'CONNELL

Lumina Foundation

Jesse O'Connell is the Strategy Director for Federal Policy at Lumina Foundation, based out of their Washington, D.C. office. He leads the development and advancement of the foundation's federal policy priorities, with the goal of increasing the attainment of high-quality credentials and promoting affordable pathways through postsecondary education.

Prior to joining Lumina, Jesse served as the assistant director for federal relations at the National Association of Student Financial Aid Administrators. Jesse began his career as a financial aid administrator at Georgetown University. He holds both a master's and bachelor's degree from Georgetown.

MORGAN PLUMMER, SES

National Security Technology Accelerator ("MD5")

Mr. Morgan Plummer serves as the Managing Director of the MD5 National Security Technology Accelerator (MD5/NSTA) at the US Department of Defense. Immediately prior to his appointment as Director, Morgan served as the Senior Advisor to the Director of MD5/NSTA and was a Visiting Senior Research Fellow at National Defense University. Prior to joining MD5/NSTA, Morgan served as a senior defense official in the Obama Administration, departing in April 2016 as the Senior Advisor to the Undersecretary of Defense for Personnel and Readiness. As the senior public policy advisor and principal deputy to the Department's chief human resources officer, Morgan helped oversee a bold set of sweeping and progressive reforms, including the full integration of women into ground combat units, the repeal of the ban against open transgender service and Secretary of Defense Ash Carter's signature set of civilian and military personnel policy reforms, collectively referred to as the "Force of the Future" initiative. Before his role at Personnel and Readiness, Morgan served as the Special Assistant and Deputy Chief of the Staff to the Under Secretary of the US Army.

DR. AARON PRESNALL

The Jefferson Institute

Aaron Presnall (Ph.D. University of Virginia) is president of the Jefferson Institute. He is a political economist specializing in issues of banking and telecommunications regulatory transition, and the evolving world of information and participatory politics. In addition to scholarly works and popular opinion pieces, he has written on the business and political environment of Europe for the Economist Intelligence Unit, the United Nations Development Program (UNDP), and government organizations in Europe and the United States. 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.

DR. PRASAD RAM

Gooru

Dr. Prasad Ram ("Pram") started Gooru while at Google to develop a "GPS for Learning" where, students seeking to learn a topic are presented with a learning "route" based on their profile and "rerouted" based on their performance. In 2011, he established Gooru as a non-profit to bring the simplicity and universal usefulness of "Google Maps" - like experience to learning.

While at Google, Pram led projects on Google Maps, News, Language Technologies, Search, and Ads. Pram received the Founders' Award at Google in 2010 for his work on Google Ads. Prior to joining Google, Pram led engineering at Yahoo! and was a research scientist at Xerox Research.

DR. KRISTA RATWANI

Aptima, Inc.

Dr. Krista (Langkamer) Ratwani is a Principal Scientist and Director of the Learning and Training Systems Division at Aptima, Inc. Dr. Ratwani has experience in leader development and training, training evaluation and design, performance assessment, and learning strategies. At Aptima, she serves as the lead on efforts focusing on the assessment and development of leader skills and attributes at multiple levels of leadership; the development of support tools, including feedback tools and training programs, to foster the development of individuals and teams; and the application of learning principles to the development of effective training. Most recently, her efforts have focused on understanding the underlying theory needed to effectively develop individuals and teams over time, as well as the associated tools to enable that development. Her work often blends scientific theory with operational input obtained through facilitating knowledge elicitation sessions with military personnel. Dr. Ratwani holds a Ph.D. and M.A. in Industrial-Organizational Psychology from George Mason University and a B.A. in Psychology from Monmouth University. She is a member of the AmericanPsychological Association and the Society for Industrial and Organizational Psychology and also serves as an AssociateEditor to the Military Psychology journal.

FRITZ RAY

Eduworks Corporation

Mr. Fritz Ray is the technical lead of the Competency and Skills System (CaSS) Project and is the Director of Engineering at Eduworks Corporation. Mr. Ray has spent his career architecting, designing and developing software used by the US Advanced Distributed Learning Initiative, the US Army Research Laboratory, and industries including aviation, financial services, and intellectual property. He currently contributes to several open source projects, standards efforts surrounding learning engineering, and task forces seeking to understand and model the learning experience in software. He has a strong background in E-learning, practical aspects of cyber-security and holds a degree in computer engineering from the Oregon Institute of Technology.

ELLIOT ROBSON

Eduworks Corporation

Elliot Robson is a researcher, entrepreneur, and technology professional known for creative and disruptive innovation in industry, academia, and government. He is the VP of Research and Operations for Eduworks Corporation, was a long-time education-technology leader in K-12 at Amplify Learning, and currently leads a portfolio of projects transforming competency-based education, training, and talent management. Elliot leads the Eduworks team building the next generation of ICT for competencies and developing machine learning and natural language processing tools. Elliot has contributed frequently to IFEST and I/ITSEC and looks forward to presenting the open source Competency and Skills System (CaSS) this year.

YASIR SALEEM

Adobe Systems Federal

Mr. Saleem is a Sr. Solutions Consultant at Adobe Systems Federal. He has over 10 years of experience working within Department of Defense, Civilian and Intelligence Community. Yasir has worked to engineer and architect solutions from online collaboration to incident response applications. Having an extensive background in systems & infrastructure management, data center consolidation and cloud computing, Yasir focuses on customer's journey to finding value while providing a long-term vision. Yasir has also been working in the eLearning space applying marketing principles and technologies to help elevate user experience, engagement with content and peers, and overall effectiveness of the platform. Without the right user experience, learning can be hindered, thus making User Experience critical to adoption and sustainment of any solution. Mr. Saleem holds a Bachelor of Science in Integrated Science and Technology from James Madison University and a Masters of Science in Information Systems Technology from George Washington University.

SANJAY SARDAR

SAIC

Mr. Sardar serves as the Vice President for Modernization and Digital Transformation at SAIC. In this role, he is the senior executive responsible for managing SAIC's customers efforts in modernizing how they deliver services. Prior to this role, Sanjay served as the Vice President for Advanced Analytics and Simulation. He led the development and implementation of the strategy to manage business and operations related to advanced analytics, big data engineering, information management and knowledge management. Before coming to SAIC, Mr. Sardar served as the Chief Information Officer of the Federal Energy Regulatory Commission, where he had responsibility for providing strategic management of FERC's information technology portfolio. During this tenure, Mr. Sardar also chaired the Federal Small Agency CIO council, representing over 80 small agencies on the OMB's Federal CIO Council. Prior to 2008, Sanjay was a Sr. Manager at General Dynamics Information Technology (GDIT) with oversight responsibility for technology efforts at many major government agencies.
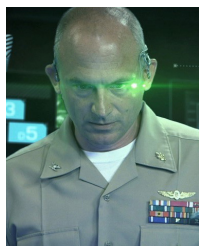
DR. DYLAN SCHMORROW

Soar Technology, Inc.

Dr. Schmorrow is the Chief Scientist at Soar Technology (SoarTech) where he is working to advance and apply artificial intelligence technologies to improve and transform how people live. He is one of the nation's leading experts on national security research, technology, and policy related to information technology, medical research, and human performance applications. He has led numerous initiatives that transformed promising technologies into operational capabilities and he successfully transitioned several significant prototypes to operational use. His past service includes leading DoD's Human Performance, Training, and BioSystems at the Office of the Secretary of Defense, Program Manager for the Defense Advanced Research Projects Agency (DARPA), Research Scientist and Branch Head at the Naval Air Warfare Center, Chief Scientist for Human- Technology Integration at the Naval Research Lab, Assistant Professor at the Naval Postgraduate School, Program Officer at the Office of Naval Research (ONR), and Executive Assistant to the Chief of Naval Research. He retired as a U.S. Navy Captain in 2013 after twenty years of service where he was both an aerospace experimental psychologist and an acquisition professional leading research and development programs. His military decorations include the Defense Superior Service Medal (2 awards), Legion of Merit, Meritorious Service Medal (3 awards), Navy Commendation Medal, Navy Achievement Medal, Armed Forces Service Medal, and NATO Medal.

TJ SEABROOKS

Rustici Software

TJ Seabrooks is the CEO at Rustici Software, which helps companies in the eLearning space work well together through compliance using specifications like SCORM or xAPI, and before that he served as the company's Director of Products. TJ is influential in the evolution of eLearning standards; he played an integral role in the contribution to two Broad Agency Announcements (BAA) awarded to Rustici Software by Advanced Distributed Learning Initiative (ADL) in 2015 and 2016 and he has been a key contributor to the xAPI specification beginning in 2012. TJ has an M.S. in Computer Science from Vanderbilt University and a B.S. in Computer Science from Mount Vernon Nazarene University.

BRENT SMITH

ADL Initiative

Brent Smith is a Systems Engineering and Technical Assistance (SETA) contractor for the Advanced Distributed Learning (ADL) Initiative. Through this work, he serves as the ADL R&D Principal. In this role, Mr. Smith helps implement the research agenda, aligned with the program's overall strategy. This work includes defining R&D roadmaps to meet organizational objectives, establishing chains of research, and exploring new tools, technologies, specifications, and standards that align with the program's mission. Mr. Smith is a software systems architect with over 20 years of experience in designing and developing distributed learning solutions, simulations, courseware, and learning technologies for government stakeholders.

MICHAEL SMITH

ICF International

Michael Smith has more than 13 years of experience in analytics, strategic planning, risk assessment, innovation, and project management. Mr. Smith currently advises several Department of Defense clients on how to adapt emerging data science, big data, and analytics practices to improve their performance. Mr. Smith currently leads a research project for Army Research Laboratory, Human Research and Engineering Directorate and manages a team of computational scientists and learning researchers developing novel methods for automated course effectiveness analytics using simulation, pattern recognition, and factor analysis. Mr. Smith regularly publishes and presents on the topics of big data, data science, and analytics. Mr. Smith also helped develop the Institute for Operations Research and Management Science (INFORMS) industry-leading credential for analytics, the Certified Analytics Professional (CAP), as part of the inaugural examination group as well as a study guide author (2014). Mr. Smith holds a Master of Public Policy from Georgetown University and a Bachelor of Arts in International Economics from Longwood University.

DR. MATTHEW STAFFORD

Air Education and Training Command

Dr. Matthew Stafford is the Chief Learning Officer for Air Education and Training Command (AETC), Randolph AFB, Texas. AETC is a USAF Major Command, charged with designing, developing and delivering Air Force professional military and professional continuing education, technical training, and flying training, as well as leading USAF recruiting efforts. In his role, Dr. Stafford is responsible for the redesign, and implementation of the USAF Continuum of Learning, to include development and tracking of progress metrics, as well as strategic messaging. He is also tasked with designing and developing the strategies, governance structures, and policy infrastructure to support the full implementation of the Force Development Commander position to maximize learning effectiveness and efficiency force-wide.

DR. JULIAN STODD

Sea Salt Learning

Julian is the founder of Sea Salt Learning, where he helps organisations get fit for the Social Age. Clients include financial services, technology, military, manufacturing and petrochemical, as well as healthcare, NGOs and charities. Julian splits his time between writing and working around the world, exploring the strategy and implementation of learning, leadership, cultural and organisational change.

GEORGE VILCHES

JCA Solutions

George Vilches is the president of JCA Solutions, an e-learning standards expert consultancy. He teaches classes on SCORM and Experience API challenges and integrating these technologies within myriad environments. He regularly oversees custom integration projects for Fortune 500 companies looking to up their e-learning standards game. George also contributes to various xAPI and SCORM standards bodies.

LCDR PETE WALKER

Office of Naval Research

Dr. Pete Walker is a Project Officer at the Office of Naval Research in the Human Performance Department. His portfolio has primarily focused on the use of data mining and machine learning for the Manpower, Personnel, Training and Education (MPT&E) domain. In less than a year, Dr. Walker has helped to transition two separate rapid prototyping efforts on topics ranging from the use of AR, VR, and MR environments for training and education and the development of a Commander's Risk Mitigation Dashboard.

Prior to joining ONR, Pete was the Deputy Director at the Naval Medical Research Center where he developed seminal approaches for the use of imaging and precision medicine indicators for predicting warfighter long term health outcomes. Dr. Walker received his Ph. D. in Cognitive Science at the University at Albany. He has published at venues including AAAI, KDD, and ICML.

NICK WASHBURN

5th Logic

Currently, the Chief Product Officer at 5th Logic, Nick Washburn has 18 years of experience working with hi-tech entrepreneurs, Commercial, Government, and for some of the world's top brands. Previously, Nick served as Director of the Learning Division at Riptide Software. Nick is a member of the ADL workgroup that created the Experience API (xAPI), is Secretary of the IEEE xAPI Standard Work Group, and he continues to work in xAPI/LRS strategies for today's learning enterprise. Since 2000, Nick has led the development of award-winning training solutions used by Fortune 50/500 and U.S. DoD.

ART WERKENTHIN

RISC, Inc.

Art Werkenthin, CEO of RISC, Inc, has over 30 years' experience working with learning management systems (LMS). An early xAPI enthusiast, Art's company was the first to implement xAPI 1.0 in a commercial LMS. Since 2012 Art has participated on the ADL cmi5 committee and frequently presents and blogs on both xAPI and cmi5 topics. Art's company, RISC, was the first to implement cmi5 in an LMS. Art has developed free, open source code libraries to assist cmi5 content developers and has provided consulting to both Learning & Development professionals and content tool vendors to implement cmi5.

JEFFREY YOUNG

Adobe Systems Federal

Jeffrey Young is an award-losing Solution Consultant Manager for Adobe Systems Federal. He partners with federal agencies to create collaborative, secure, and relevant experiences that tell an engaging story. He has worked producing learning content for federal agencies and delivering them using the Adobe tools suite.

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YET ANALYTICS

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Yet Analytics provides products and services that help organizations leverage xAPI, learning analytics, data visualization, and data logistics to modernize and improve the efficiency and effectiveness of distributed learning systems.

TABLE TOP DISPLAYS HOURS

TABLE TOP DISPLAYS BY COMPANY

FLOOR PLAN
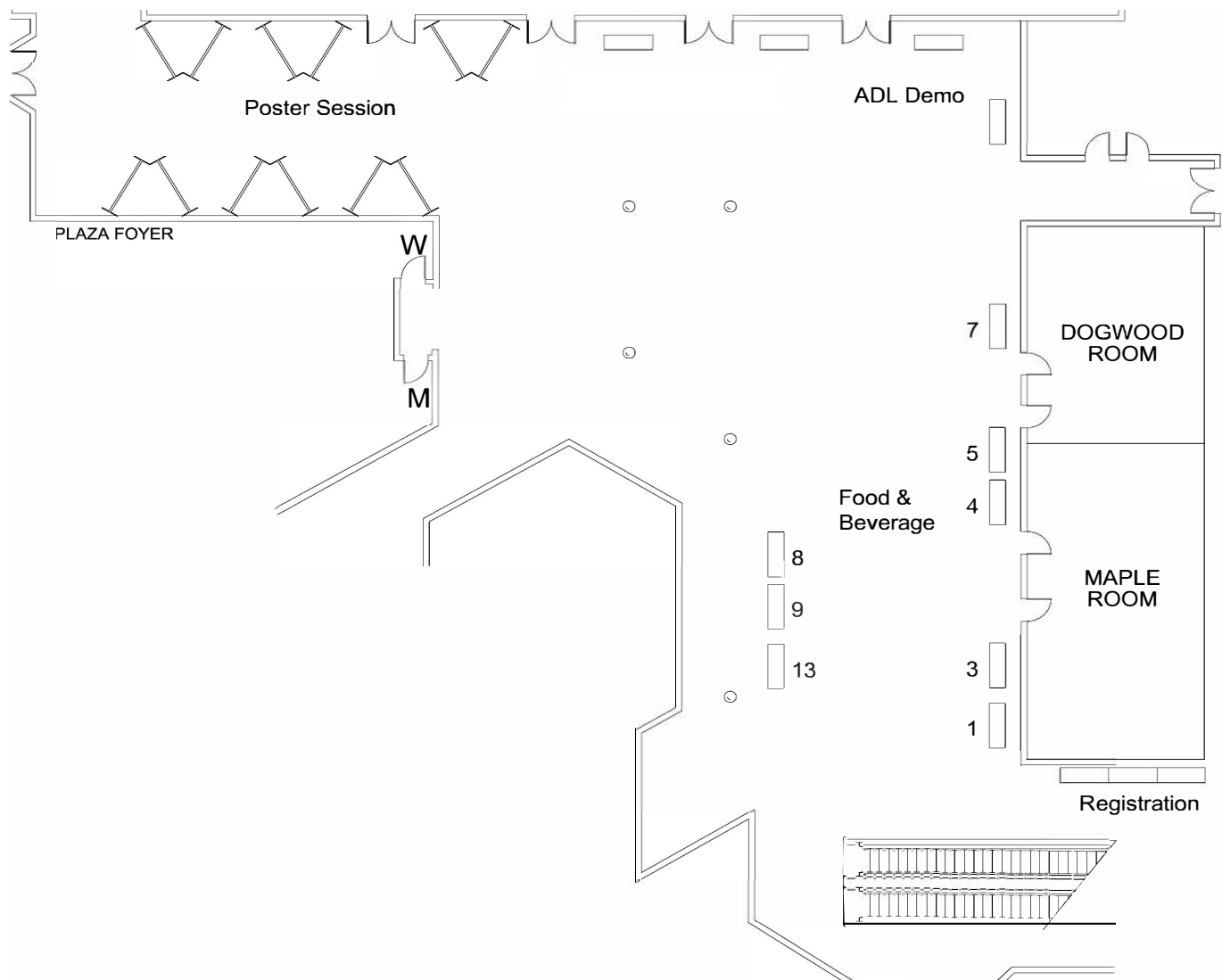
TABLE TOP DISPLAYS

ADL INITIATIVE

The Advanced Distributed Learning (ADL) Initiative is a government program reporting to the Deputy Assistant Secretary of Defense for Force Education and Training (DASD(FE&T)), under the Office of the Assistant Secretary of Defense for Readiness (ASD(R)). The ADL Initiative bridges across Defense and other Federal agencies to encourage collaboration, facilitate interoperability, and promote best practices for using distributed learning to provide the highest-quality education, training, informal learning, and just-in-time support; tailored to individual needs and delivered cost-effectively, anytime and anywhere, in order to increase readiness, save resources, and facilitate inter-organizational collaboration.

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Newport News Shipbuilding is the sole designer, builder and refueler of U.S. Navy aircraft carriers and one of two providers of U.S. Navy submarines. With approximately $4 billion in revenues and more than 20,000 employees, we are the largest industrial employer in Virginia and the largest shipbuilding company in the United States.

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Pragmatics designs, engineers, and integrates services for AV/networking/VM server and learning technology systems from industry-leading manufacturers. We offer tailored solutions to meet our clients' needs. We have a dedicated team of AV Engineering and Integration certified personnel who have delivered thousands of AV, Networking, and Computing solutions to the US Army, Navy, Air Force, and several other Civilian Agencies. Our team is proficient in all AV, teleconferencing, and control system technologies, offering the insight needed to troubleshoot challenges and deliver impeccable installation. By maintaining more than 120 direct dealer relationships, we reduce costs while providing high-quality products and service.

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Rustici Software helps companies in the eLearning space work well together. As the world's leading standards experts, they provide the tools and knowledge to help companies create, distribute and play eLearning content. Since 2002, Rustici Software has assisted hundreds of government agencies, LMSs, authoring tools, LRSs, training content providers and organizations conform to specifications like SCORM, the Experience API (xAPI), cmi5 and AICC. Rustici Software is the creator of Project Tin Can and has actively supported the development of xAPI, cmi5 and SCORM in partnership with ADL, IMS Global, IEEE, ICICLE and other leading trade organizations. Rustici Software is part of Learning Technologies Group plc (LTG). Learn more at www.rusticisoftware.com.

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