2019 iFEST

August 26 – 28 | Hilton Mark Center | Alexandria, VA | Training Systems.org/Events
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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 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

MONDAY, 26 AUGUST
Registration Open
Lower Foyer
1200

Exhibits Open
Lower Foyer
1300 - 1900

General Session
Plaza Ballroom BC
1400 - 1730

Professional Networking Reception
Lower Foyer
1730 - 1900

TUESDAY, 27 AUGUST
Continental Breakfast
Lower Foyer
0730 - 0830

General Session
Plaza Ballroom BC
0830 - 1000

Exhibits Open
Lower Foyer
1000 - 1900

Concurrent Sessions
Plaza Ballroom I-III & Beech AB
1030 - 1615

Lunch and Exhibit Time
Terrace Room and Lower Foyer
1130 - 1300

Ignite! Presentations
Plaza Ballroom BC
1630 - 1730

Professional Networking Reception/Poster Session
Lower Foyer
1730 - 1900

WEDNESDAY, 28 AUGUST
Continental Breakfast
Lower Foyer
0730 - 0830

Concurrent Sessions
Plaza Ballroom I-III & Beech AB
0830 - 0930

Exhibits Open
Lower Foyer
0930 - 1330

General Session & Ignite! Presentations
Plaza Ballroom BC
0945 - 1215

Closing Luncheon
Terrace Room
1215 - 1330
**EVENT INFORMATION**

**LOCATION**
Hilton Alexandria Mark Center  
5000 Seminary Road  
Alexandria, VA 22311

**WIFI**
Network: HILTON_MEETING  
Password: ADLiFEST

*The WiFi is provided by The Hilton Alexandria Mark Center and should be treated as an unsecure network; it is in no way affiliated with NTSA or the ADL Initiative. Please treat it as you would a public connection with regard to security.*

**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.

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**SAVE THE DATES**

**INTERSERVICE/INDUSTRY TRAINING, SIMULATION & EDUCATION CONFERENCE (I/ITSEC) 2019**
December 2 – 6, 2019  
Orlando, FL

**2020 SIMULATION INNOVATION WORKSHOP (SIW)**
February 10 – 14, 2020  
Orlando, FL  
(Sponsored by SISO / Supported by NTSA)

**M&S LEADERSHIP SUMMIT**
Date TBD  
Location TBD

**ITEC 2020**
April 28 – 30, 2020  
ExCeL, London, UK

**MODSIM WORLD 2020**
May 5 – 7, 2020  
Norfolk, VA

**2020 SIMULATION & TRAINING COMMUNITY FORUM**
May 12, 2020  
Dayton, OH

**TRAINING & SIMULATION INDUSTRY SYMPOSIUM (TSIS) 2020**
June 17 – 18, 2020  
Orlando, FL

**CAPITOL HILL M&S EXPO**
July 2020  
Washington, DC

**IFEST 2020**
August 2020  
Alexandria, VA

[TrainingSystems.org/events](http://TrainingSystems.org/events)
HOTEL MAP

Exhibits, Registration, & Posters ................................................ Plaza Ballroom Foyer
General Sessions & Ignite! Presentations ..................................... Plaza Ballroom BC
Meal Functions ........................................................................... Terrace Room
Tutorials & Paper Presentations ................................................. Plaza Ballroom I-III & Beech AB
CHARLES (FRED) DRUMMOND, SES
Deputy Assistant Secretary of Defense, Force Education and Training
Office of the Assistant Secretary of Defense for Readiness

Mr. 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. He oversees the development of policies and plans for military training and education. His responsibilities include Service and joint training policy, cyber training policy, joint professional military education, training capability modernization, and enabling access to the land, air, and sea live training domains.

Prior to joining OSD, Mr. Drummond was responsible for Navy's strategy, policy, resource allocation, and execution oversight for all officer, graduate, and voluntary education programs on behalf of the Deputy Chief of Naval Operations. A career Naval Officer, Mr. Drummond served in a variety of operational and staff billets. As a Naval Flight Officer flying in the EA-6B and in the USAF EF-111A, Mr. Drummond deployed across the globe conducting combat and peacetime operations. Non-operational tours included assignments in education, training, and manpower.

Mr. Drummond's military awards include the Defense Superior Service Medal, the Legion of Merit, the Distinguished Flying Cross, and the Air Medal. He is a graduate of Virginia Tech and received a Master's of Political Science from Auburn University of Montgomery.

SAE SCHATZ, PH.D.
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.
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<tr>
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<td>1200</td>
<td>REGISTRATION OPEN</td>
<td>LOWER FOYER</td>
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<td>1300</td>
<td>EXHIBITS OPEN</td>
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<td>1400-1410</td>
<td>CONFERENCE WELCOME</td>
<td>PLAZA BALLROOM BC</td>
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<td>RADM James A. Robb, USN (Ret) President, National Training &amp; Simulation Association</td>
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<td>1410-1430</td>
<td>OPENING REMARKS AND KEYNOTE INTRODUCTION</td>
<td>PLAZA BALLROOM BC</td>
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<td>Charles (Fred) Drummond, SES Deputy Assistant Secretary of Defense, Force Education and Training, Office of the Assistant Secretary of Defense for Readiness</td>
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<td>1430–1530</td>
<td>KEYNOTE PRESENTATIONS</td>
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<td>James P. Woolsey, SES President, Defense Acquisition University Government Keynote</td>
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<td>John Schwartz Head of Enterprise Business Development, edX Industry Keynote</td>
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<td>1530–1600</td>
<td>BREAK AND EXHIBIT TIME</td>
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<td>1600–1730</td>
<td>WHO CARES? A STRATEGIC LOOK AT MODERNIZING LEARNING</td>
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<td>Sharon Ridings, SES Chief Learning Officer, U. S. Environmental Protection Agency</td>
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<td>Yoram (Jerry) Wind, Ph.D. Emeritus Professor of Marketing, The Wharton School of the University of Pennsylvania</td>
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<td>Heidi Schweingruber, Ph.D. Director, Board on Science Education, The National Academies of Sciences, Engineering and Medicine</td>
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<td>Phill Miller Chief Learning and Innovation Officer, Blackboard, Inc.</td>
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<td>Sae Schatz, Ph.D. Director, ADL Initiative Moderator</td>
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<td>1730–1900</td>
<td>PROFESSIONAL NETWORKING RECEPTION</td>
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TUESDAY, AUGUST 27

0730–0830  CONTINENTAL BREAKFAST
LOWER FOYER

0830–0845  DAY 2 WELCOME
PLAZA BALLROOM BC
Ellen Purdy
Director, Emerging Capabilities & Prototyping Initiatives & Analysis, Office of the Assistant Secretary of Defense (Research & Engineering)

Introduction:
Angie M. Gamble, Ph.D.
U.S. Army

0845–1000  GOOD PRACTICES IN DISTRIBUTED AND ONLINE LEARNING
PLAZA BALLROOM BC
David LeFevre, Ph.D.
Director of the EdTech Lab, Imperial College

Sarah Toms
Executive Director, Wharton Interactive

Robert Peach, Ph.D.
Professor of Mathematics (Online Program Analytics), Imperial College

Patricia Gabaldon, Ph.D.
Associate Professor of Economic Environment, IE University

Kristine Rabberman, Ph.D.
Assistant Vice Dean, Director of Academic Affairs at Professional and Liberal Education, University of Pennsylvania

Nunzio Quacquarelli
CEO, QS Quacquarelli Symonds

Moderator

1000–1030  BREAK AND EXHIBIT TIME
LOWER FOYER
CONCURRENT PRESENTATION SESSIONS

THE SKILLFUL USE OF xAPI, IN PRACTICE
PLAZA I
Session Chair:
Martin Bogan
CAE USA

NEW, CREATIVE WAYS TO LEARN
PLAZA II
Session Chair:
Nunzio Quacquarelli
QS Quacquarelli Symonds

LEARNING ENGINEERING
PLAZA III
Session Chair:
Andy Johnson
ADL Initiative (Contractor)

AR/VR PLATFORMS
BEECH AB
Session Chair:
Van Brewer, Ph.D.
ADL Initiative (Contractor)

DATASIM: Data and Training Analytics
Simulated Input Modeler for xAPI and xAPI Profiles
Shelly Blake-Plock
Yet Analytics

It’s Not About the Technology
Ken Crim
U.S. Navy

Instructional Designers and Learning Engineers of the Future
Dina Kurzweil, Ph.D.
Uniformed Services University of the Health Science

Close Combat Training via Integrated Visual Augmentation System
LtCol Rory Quinn, USMC
Close Combat Lethality Task Force, Office of the Secretary of Defense

Challenges in Providing a Semi-Connected Learner Experience with xAPI
Daniel Pfeiffer
Float, LLC

Alternate Reality Courses: A Paradigm Shift in Using Games to Activate Learning
Sarah Toms
Wharton Interactive

Engineering Better Learning: Practical On-Ramps to the Emerging Practice of Learning Engineering
Jim Goodell
Quality Information Partners & IEEE ICICLE

Global Collaborative Learning Through AR/VR and Immersive Technology
Julia Pelton
Modest Tree Media, Inc.

Additional Author(s):
Michelle Barrett, Ph.D., Shelly Blake-Plock, & Ellen Wagner, Ph.D.

No Device Left Behind: Solving the Offline Learning Challenges of xAPI and cmi5
George Vilches
JCA Solutions

Collaborative Augmented Reality with Virtual Humans to Support Social Learning
Marjorie Zielke, Ph.D.
University of Texas, Dallas

Additional Author(s):
Scotty D. Craig, Ph.D.

Linking up the Talent Pipeline
Scott L. Cheney
Credential Engine

AR/VR Platforms
Lee Zerfass
Imagine-Invest-Create

Additional Author(s):
Fritz Ray, Kristin Wood, Joshua Westfall & Emilie Ralaf

1130–1300
LUNCH AND EXHIBIT TIME
TERRACE ROOM AND LOWER FOYER
1300–1345

**Total Learning Architecture:**
An Abolitionist View of Data Stovepipes and Ongoing Modernization
PLAZA I
Brent Smith
ADL Initiative (Contractor)

**Industry Roundtable:**
Upcoming Government Requirements for Vendors
PLAZA II
Sae Schatz, Ph.D.
ADL Initiative
  Mike Kline, WHS
  Jasmine Bramlett, WHS
LtCol Rory Quinn, USMC
Close Combat Lethality Task Force, Office of the Secretary of Defense
Shawn Miller
Defense Acquisition University
  DAU Team Members:
  Julie Bailey, Shelton Jewette, Kim Kendall, Mike McGhee, Carolyn Tebault, James Wilkerson, Nantana Wongtanasirikul
Ben Goldberg, Ph.D.
U.S. Army Combat Capabilities
  Development Command - Soldier Center
  STTC

**Learning Analytics Experts Discussion**
PLAZA III
Ryan Baker, Ph.D.
University of Pennsylvania
George Siemens, Ph.D.
University of Texas, Arlington
Jeanine DeFalco, Ph.D.
Army Futures Command
Erica Snow, Ph.D.
Imbellus
Aaron Presnall, Ph.D.
Jefferson Institute
  Moderator

1345–1400

**BREAK AND EXHIBIT TIME**
LOWER FOYER

1400–1445

**Total Learning Architecture:**
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Aaron Presnall, Ph.D.
Jefferson Institute
  Moderator

1445–1515

**BREAK AND EXHIBIT TIME**
LOWER FOYER
CONCURRENT PRESENTATION SESSIONS

xAPI PROFILES, IN PRACTICE
PLAZA I
Session Chair: Mike Hernandez
ADL Initiative (Contractor)

LEARNING ANALYTICS FROM DIVERSE DATA
PLAZA II
Session Chair: Yihua Liu
ADL Initiative (Contractor)

LEARNING SCIENCE FOR OUTCOMES
PLAZA III
Session Chair: Naomi Malone, Ph.D.
ADL Initiative (Contractor)

AR/VR DISTRIBUTED LEARNING DESIGN
BEECH AB
Session Chair: Mickey Neeley
ADL Initiative (Contractor)

Taking xAPI Profiles Further: A Strategic Approach to Utilize xAPI Profiles to Address Specific Requirements within the DoD and Guidance for Putting the Process into Practice
TJ Seabrooks
Rustici Software

TLA Collaborative Mission Control and Self-Regulating Ecology
Prasad Ram, Ph.D.
Gooru
Additional Author(s): Michelle Newstadt, Ph.D. & Mukul Markande

The Future of Work: Technology, Predictions, and Preparing the Workforce
Maria Ho
Association for Talent Development

The Emerging ID World of AR/VR
Barbara M. Greenstein
Epsilon Systems Solutions, Inc.
Additional Author(s): Richard Benedetto

Implementing xAPI Profiles in the Navy: Case Studies and Recommendations
Tim Welch
Naval Air Warfare Center Training Systems Division
Additional Author(s): Rob Chadwick, Jason Haag & Jonathan Poltrack

A Persona-based Analytics Framework for Learner Experience Mapping
Mike A. Smith
ICF
Additional Author(s): Skilan Ortiz & Sue Dass

Bottom-up Views of Distributed Learning: The Role of Distributed Cognition
Garett Howardson, Ph.D.
U.S. Army Research Institute

Augmented Reality Based Extensible-Experiential-Expertise (X) Learning-Model Objectives
Kevin Owens
Applied Research Laboratories: The University of Texas at Austin Signal Information Science Lab

Mapping the DoD ISD Verb Profile for Adaptive Learning Using Extended Reality (XR) Technology for Pilot Training
Martin K. Bogan
CAE USA

Learning from Sensor-based Analytics for First Responder Training
Brenda Bannan, Ph.D.
George Mason University

Driving Retention: Using Technology to Support Learning Science
Duncan Welder IV
RISC Inc.
Additional Author(s): Art Werkenthin

Designing Automated Evaluation and Feedback with AR and Use Cases
Brenda Braitling
Brenda Braitling, MISM

1615–1630 BREAK AND EXHIBIT TIME
LOWER FOYER
1. Innovative Approaches to Learning, Teaching, and Nurturing Employability – Lessons from Wharton-QS Reimagine Education Global Awards
   Nunzio Quacquarelli
   QS Quacquarelli Symonds
   Additional Author(s): Yoram (Jerry) Wind, Ph.D.

2. DoD Career Ready Portal, Open for Business!
   Jonathan Woods
   DoD Voluntary Education

3. Delivering Online Training to International Audiences
   Paul Thurkettle
   NATO Allied Command Transformation

4. Building ADL Capacity Through Security Sector Reform Projects
   Commander Geir Isaksen
   Norwegian Defense University College

5. Operational Integration of Advanced Distributed Learning into Exercises
   Major Niclas Ljung
   Swedish Armed Forces
   Additional Author(s): Major Tohmas Ax & Biljana Presnall

6. Specifications and Standards Utility within NATO DEEP ADL: Experiences and Lessons Learned from Alliance Partner Countries ADL Capacity Building
   Piotr Gawliczek, Ph.D.
   University of Warmia and Mazury
   Additional Author(s): MA Marcin Jozwiak

7. Modernizing Learning
   Sae Schatz, Ph.D.
   ADL Initiative
   Angie M. Gamble, Ph.D., U.S. Army
   Moderator
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**SPECIAL EVENT: IEEE LTSC PRESENTATIONS**  
PLAZA I  
Session Chair: Andy Johnson  
ADL Initiative (Contractor)  

**BRIDGING ADL AND SIMULATION**  
PLAZA II  
Session Chair: Jerry Gordon  
ADL Initiative (Contractor)  

**SELF-DIRECTED AND SELF-REGULATED LEARNING**  
PLAZA III  
Session Chair: Mickey Neeley  
ADL Initiative (Contractor)  

**DISTRIBUTING LEARNING WITH AR/VR—USE CASES**  
BEECH AB  
Session Chair: Karen Cooper, Ph.D.  
Naval Air Systems Command  

**The IEEE Learning Technology Standards Committee (IEEE LTSC) Standards Program**  
Robby Robson, Ph.D.  
Eduworks  

**The Danish Army NCO Academy’s Use of Lightweight Simulation Before Field Training, Supported by xAPI**  
WO II Bob Ludvigsen  
Royal Danish Defense College  

**Measuring Success in Self-Guided Information Assurance Training**  
David Tileston  
Software Engineering Institute  

**XR Emerging Technologies at Air U**  
Col Tony Millican, Ph.D.  
Air University  
Additional Author(s):  
Dennis Armstrong, Ph.D.  

**Training Management and STE: Mapping Squad Level Competencies in Simulation Data Through a GIFT/TLA Integration**  
Benjamin Goldberg, Ph.D.  
U.S. Army Combat Capabilities Development Command-Soldier Center STTC  

**A Heuristic Evaluative Framework for Mobile Self-Regulated Learning Design**  
Stephanie McNicol  
Arizona State University  
Additional Author(s):  
Scotty D. Craig, Ph.D., Russell J. Branaghan, Ph.D. & Rod D. Roscoe, Ph.D.  

**Protection of Civilians/Children in Armed Conflict VR**  
Paul Thurkettle  
NATO ACT  
Additional Author(s):  
MSGT Marc Sallach  

**Leveraging xAPI for AI-Based Performance Measurement and Adaptive Learning**  
Janet Spruill  
Aptima, Inc.  
Additional Author(s):  
Lloyd Kleinman & Evan Oster  

**Detecting Self-Regulated Learning Strategies Using xAPI to Collect Trace Data**  
Naomi Malone, Ph.D.  
ADL Initiative (Contractor)  
Additional Author(s):  
Hong Jiang, Ph.D.  

**VR Balkan Medical Task Force**  
Biljana Presnall  
Jefferson Institute
0930–0945  BREAK AND EXHIBIT TIME
LOWER FOYER

0945–1045  STRENGTHENING ALLIANCES AND BUILDING PARTNERSHIPS THROUGH ADL
PLAZA BALLROOM BC
Commodore Lars Arne Aulie
Chief of Staff, Norwegian Defense University College (NoDUC)
Colonel Slaven Blavicki
Chief, Training and Doctrine Command (TRADOC), Bosnia and Herzegovina
Paul Thurkettle
NATO Allied Command Transformation, NATO e-Learning Programme Manager
Daniel Eagle
Director of Executive Education, Defense Institute of Security Cooperation Studies
Aaron Presnall, Ph.D., Jefferson Institute
Moderator

1045–1100  BREAK AND EXHIBIT TIME
LOWER FOYER

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2020 SIMULATION INNOVATION WORKSHOP (SIW)

February 10 – 14 | The Florida Hotel and Conference Center | Orlando, FL | TrainingSystems.org/Events

2020 SIW will feature:
- Keynote Speakers & Panel Sessions
- Peer-reviewed papers covering three tracks:
  - System Life-Cycle and Technologies
  - Services, Processes, Tools, and Data
  - M&S Specialty Applications
- Tutorials on a wide range of subjects
- Numerous Working Group sessions on specific standards and technical topics

Call for Papers & Presentations
TrainingSystems.org/SIW/CFP

Early Submission Deadline:
2 September 2019

All Submissions Deadline:
15 October 2019

See full details at TrainingSystems.org/events
IGNITE! PRESENTATIONS: TECHNICAL CONCEPTS
PLAZA BALLROOM BC

1. Best Practices for Nudge Learning to Drive Learner Adoption and Performance
   Shrikant Pattathil
   Harbinger Systems

2. Utilizing xAPI to Track Learning Objectives and Skill/Competencies to Drive Business Decisions and Dynamically Adapt Training Content
   Paul Schneider, Ph.D.
   dominKnow

3. Minute School’s Recommendation System Based on xAPI LRS
   Tushar Singh
   Minute School

4. Experience Driven Learning
   Yasir Saleem
   Adobe Federal Systems
   Additional Author(s): Jeffrey Young

5. From Paper Certificates to Digital Badges
   Gigi Roman
   NATO School Oberammergau
   Additional Author(s): Tanja Geiss

6. xAPI Profiles and xAPI Adoption in DoD
   Andy Johnson
   ADL Initiative (Contractor)

7. Applying xAPI and Machine Learning in Career Planning
   Harri Ketamo, Ph.D.
   Headai LTD
   Paul Thurkettle, NATO ACT
   Moderator

CLOSING REMARKS AND ACKNOWLEDGEMENTS
PLAZA BALLROOM BC
Aaron Presnall, Ph.D.
2019 iFEST Program Chair, Jefferson Institute

LUNCH AND EXHIBIT TIME
TERRACE ROOM
# POSTER INDEX BY TOPIC

## LEARNING DATA, ANALYTICS, AND VISUALIZATIONS

### MADLx: Maturing ADL in Exercises
- Biljana Presnall
  VP, Jefferson Institute

### DATASIM: the Data and Training Analytics Simulated Input Modeler
- Shelly Blake-Plock
  President and CEO, Yet Analytics, Inc.

### Virtual Recruit Tracker (VRT) the Practical Application of xAPI to a Mobile Application (eHelm) and Data Dashboard (Management Component) for the Navy’s Delayed Entry Program (DEP)
- Kimberly A. Crayton
  Operation Research Analyst, Naval Air Warfare Center Training System Division

### Data Analytics and Visualization Environment for xAPI and the Total Learning Architecture
- Shelly Blake-Plock
  President and CEO, Yet Analytics, Inc.

### Sen$e: Designing for Data Using xAPI
- Jennifer Murphy, Ph.D.
  Chief Executive Officer, Quantum Improvements Consulting

### xAPI Profiles
- Florian Tolk
  Software Engineer, Advanced Distributed Learning Initiative (Contractor)

### xAPI and the Evolving Learning Ecosystem - A 5-Year Plan
- Patrick Selby
  xAPI Expert, Onlearningpoint

### Using xAPI and Population Models to Support Self-Improving Adaptive Instructional Systems - A Framework and Conceptual Design
- Xiangen Hu, Ph.D.
  Professor, The University of Memphis

## SOFTWARE, SPECIFICATIONS, AND STANDARDS

### The TLA: A DODAF Perspective
- Jerry Gordon
  Internal Research and Development Manager, Advanced Distributed Learning Initiative (Contractor)

### Flash Deprecation
- Trey Hayden
  Lead Software Engineer, Advanced Distributed Learning Initiative (Contractor)

### Guerrilla Photogrammetry
- Lee Cox
  Game Development Spec. Sr., SAIC

### Capability Maturity Model
- Naomi Malone, Ph.D.
  Learning Scientist, Advanced Distributed Learning Initiative (Contractor)

## LEARNING SCIENCE FOR ADL ENVIRONMENTS

### Science of Learning for Education and Readiness (SoLaR)
- Scotty D. Craig, Ph.D.
  Associate Professor of Human Systems Engineering, Arizona State University

### From Theory to Practice: Elevating mLearning Through Gamification
- Ashley L. Reardon
  Systems Engineer

### Knowledge Elicitation: A Foundation for Improved AR-Based Learning
- Claire Hughes
  Research Associate, Design Interactive

### PERvasive Learning System (PERLS) – Verification, Validation, and Experimental Testing Project for Supporting System Transition
- Scotty D. Craig, Ph.D.
  Associate Professor of Human Systems Engineering, Arizona State University

### Bridging Resident and Online Courses for a Sustainable Blended Learning Approach
- Tanja Geiss
  ADL Chair, NATO School Oberammergau

## ADAPTIVE LEARNING AND AI APPLICATIONS

### Enabling Lifelong Learning Using a Novel, Adaptive Recommendation Engine
- Tara A. Brown, Ph.D.
  Lead, Instructional Strategy and Support Capability, Aptima, Inc.

### Envisioning PERLS 2.0: Moving Adaptive Learning from Research to Production
- Chad Udell
  Managing Partner, Float, LLC

### Navigated Learning and the Navigator as an Interoperable Learning Exchange
- Prasad Ram, Ph.D.
  Founder, Chief Executive Officer, Gooru

### Hands-on Active Learning Systems
- Brenda Braitling
  System Engineer-Data Governance, Pondering Press, Inc.
KEYNOTE BIOGRAPHIES

GOVERNMENT KEYNOTE – MONDAY, 26 AUGUST | 1430 – 1500 | PLAZA BALLROOM BC

JAMES P. WOOLSEY, SES

President
Defense Acquisition University

Mr. Woolsey is President of the Defense Acquisition University (DAU), a position he has held since January 2014. In that role, he is responsible for delivery of learning products through the DAU regions, the Defense Systems Management College, and the College of Contract Management; curriculum development; online learning programs; learning technology; and library services for a major Department of Defense corporate university. DAU is strategically located within five geographical regions across the country and provides a global learning environment to develop qualified acquisition, requirements, and contingency professionals who deliver and sustain effective and affordable warfighting capabilities.

He previously served as the first Deputy Director for Performance Assessments (PA) in the office of Performance Assessments and Root Cause Analyses (PARCA). In standing up the PA organization, he created the processes and practices that allowed it to perform its statutory responsibility of assessing the progress of all Major Defense Acquisition Programs. The new office also made a substantial contribution to re-invigorating the Defense Acquisition Executive Summary process and provided the Under Secretary of Defense for Acquisition, Technology and Logistics with unique analyses to give him improved visibility into the status of the MDAP portfolio.

Mr. Woolsey was previously an Assistant Director in the Cost Analysis and Research Division of the Institute for Defense Analyses. His responsibilities included management of the division’s cost analysis and research, and leadership of a wide range of cost and acquisition studies. His work included a congressionally-directed cost benefit analysis of the F-35 alternate engine, an evaluation of KC 767A lease prices, C-5 re-engineering costs and benefits, F-22 production readiness, Joint Air-to-Surface Standoff Missile costs, and space launch alternatives. Mr. Woolsey also served on a Defense Science Board Task Force on long-range strike.

Mr. Woolsey’s other previous positions include service as a structures engineer for F/A-18 aircraft at Naval Air Systems Command, and work as an engineer for Lockheed Martin airlift programs in Marietta, GA.

Mr. Woolsey has a bachelor of science in aerospace engineering from Virginia Polytechnic Institute and State University, a master’s in business administration from George Mason University and was a Fellow in the Massachusetts Institute of Technology Seminar XXI on International Relations.

INDUSTRY KEYNOTE – MONDAY, 26 AUGUST | 1500 – 1530 | PLAZA BALLROOM BC

JOHN SCHWARTZ

Head of Enterprise Business Development
edX

John Schwartz serves as edX Head of Global Business Development. He is part of the team that drives edX’s engagements with prospects and partners including Foundations, NGO’s, Corporations, and Governments both local and international. John has extensive experience in Asia and the Middle East. John’s career has been focused on driving business development for companies in a variety of industries including education tech, automotive, pharmaceutical, publishing and finance. He also has experience in strategic marketing and branding with an emphasis on experiential design.

Most recently, John was a Board Member and Chief Strategist at Hudson & Cutler, a technology driven marketing and communications company. John is a graduate of Hobart and William Smith Colleges.
NTSA LEADERSHIP

RADM JAMES A. ROBB, USN (Ret)

President
National Training & Simulation Association

Following graduation from Rensselaer Polytechnic Institute, designation as a Naval Aviator, and training in the F-14 Tomcat, Admiral Robb deployed nine times across the globe accumulating over 5,000 hours and 1,000 carrier landings. Following a tour flying Russian fighters in the Nevada desert, he commanded Fighter Squadron Fifty One, Carrier Air Wing Nine, the Navy Fighter Weapons School (TOPGUN), and Carrier Strike Group Seven. As a Flag Officer he managed all Naval Aviation Programs (N980) and was the Director of Navy Readiness (N43). Following 9/11, he joined USCENTCOM as the Director of Plans (J5) deploying to the Middle East in support of combat operations.

Retiring in 2006, he built a successful small consulting business before joining the National Training and Simulation Association as President in June 2012.

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

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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

VISIT TRAININGSYSTEMS.ORG/MEMBERSHIP, CONTACT CAROL DWYER AT CDWYER@NDIA.ORG
BRENDA BANNAN, PH.D.

Associate Professor
George Mason University

Brenda Bannan is an Associate Professor in the Instructional Design & Technology/Learning Technologies Design Research programs at George Mason University in Fairfax, Virginia, USA. Her research interests primarily involve the articulation of integrated design and research processes in learning technology design and development contexts. She is the author of numerous articles and book chapters on user experience (UX) design, instructional design and design research in education related to areas such as mobile learning, augmented reality and internet of things technologies (IoT). Funded by the National Science Foundation in their Smart Connected Communities program, Dr. Bannan leads a team conducting cycles of user experience design research developing a smart city solution prototype for emergency response simulation training integrating mobile, sensor-based technologies, activity stream data and learning analytics. Dr. Bannan has been invited to speak at the American Association for the Advancement of Science (AAAS) and the National League of Cities.

Presentation Title: Learning from Sensor-based Analytics for First Responder Training
BRENDA BRAINTLING

Consulting Information Systems Engineer
Brenda Braitling, MISM

Brenda Braitling holds a Masters in Information Systems Management and brings her abilities as a polymath and her skills in Systems Thinking and Design Principles to her work as a Consulting Information Systems Engineer for more than 20 years. She served with distinction in the Army Reserve in a Medical Battalion for more than 15 years. She volunteers as a Planning and Zoning Commissioner for her city and mentors young professionals and job changers who struggle with assuming leadership, learning STEM and traversing the technology jungle. For the last two years, she has used the case of Vascular Access Device Maintenance and the Prevention of Blood Infection to consider how to: identify and observe requirements for job tasks, differentiate passive “exposure to experiences” from active “learning experiences,” automatically sense and evaluate learning experiences using Augmented Reality and aggregate this experience data into meaningful and actionable information using xAPI.

Presentation Title: Designing Automated Evaluation and Feedback with AR and Use Cases

SCOTT CHENEY

Executive Director
Credential Engine

Scott Cheney started as Credential Engine’s first Executive Director in April, 2017. Prior to Credential Engine, he served as the Policy Director for Workforce, Postsecondary Education, Economic Development, and Labor for Senator Patty Murray and the Senate Health, Education, Labor and Pensions (HELP) Committee. He led the reauthorization of the Workforce Innovation and Opportunity Act. Scott also led the Senator’s work to reauthorize the Perkins Career and Technical Education Act, expand registered apprenticeships, formalize research and evaluation standards at the Department of Labor, enhance services and resources for dislocated workers, modernize unemployment insurance, and better align workforce and economic development in distressed regions around the country. Before going to Capitol Hill, Scott managed his own consulting firm, working with a number of states, companies, foundations, and think tanks on a host of education, training and employment issues. He also held positions with the National Alliance of Business, the American Society for Career Development, and Leadership Programs for Executives. His first paycheck in this field came from Dr. Seuss. Scott holds a Bachelor of Arts in philosophy from Carleton College, and a Master of Public Policy degree from Georgetown University.

Presentation Title: Linking Up the Talent Pipeline

KEN CRIM

Training Director
Commander Naval Installations Command

Ken Crim is the Training Director for the Commander Naval Installations Command. He has been the Joint Individual Education and Training Chief for The Army Distributed Learning Program, Dean of Academics at Marine Corps University, and is an Adjunct Professor of History at Georgetown University. Mr. Crim is a retired Navy Captain and Naval Aviator and served in Operation Desert Storm and Operation Iraqi Freedom where he was Chief of Operations, Multi National Force-Iraq. At Joint Forces Command he developed the courses and Communities of Interest to train officers going to the Joint Staffs in Iraq, Afghanistan and Horn of Africa. Additionally he developed the first online information courses for the Departments of Defense, Department of State, and USAID. He is a graduate of Georgetown University (BSBA), The Naval War College (MA), Joint Forces Staff College, and Oglethorpe University (Masters Level Teacher Certification).

Presentation Title: It’s Not About the Technology

JEANINE DEFALCO, PH.D.

Adaptive Training Research Scientist
Army Futures Command/ORAU

Jeanine A. DeFalco is an Adaptive Training Research Scientist/Post-Doctoral fellow with the Army Futures Command, CCDC SSTC, assigned to the United States Military Academy. Her current research includes investigating the relevance of the traits of honesty / humility and conscientiousness as it informs the design of adaptive instruction to support medical critical care expertise. In addition, her research is extending into the domain of supporting ethical decision making mediated by human virtual agents. She is an active member of the IEEE working group on developing standards for adaptive instructional systems.

Presentation Title: Learning Analytics Experts Discussion

DANIEL EAGLE

Director of Executive Education
Defense Institute of Security Cooperation Studies

Mr. Daniel R. Eagle is the Director for Executive Education at the Defense Security Cooperation University (DSCU.) In this capacity, Dan supervises security cooperation instruction and course development for military and civilian executive and senior executive students.

Dan is a retired Brigadier General, with over 35 years of service in the United States Air Force. During his Air Force career, Dan served in a variety of international assignments to include senior service school at the National Institute of Defense Studies and Japan and several senior leadership positions in NATO. He served as the Senior Defense Officer/Defense Attaché to the Russian Federation and was inducted into the Defense Intelligence Agency Hall of Fame in 2012.

Presentation Title: Strengthening Alliances and Building Partnerships Through ADL
PATRICIA GABALDÓN, PH.D.
Associate Professor of Economic Environment
IE University
Patricia Gabaldón is associate professor of economic environment at IE Business School in Spain, PhD in Economics, she has developed her research around the role of women in the economy and its effect in economic growth and sustainability. Patricia is a graduate in Economics of the University of Alcalá (Spain), from where she received her PhD in Economics. Her research has been published in numerous book chapters and articles in academic journals such as Long Range Planning, Journal of Business Ethics, Corporate Governance: An International Review and among many others. She has authorized several multimedia cases in the field of economics.

Presentation Title: Good Practices in Distributed and Online Learning

PIOTR GAWLICZEK, PH.D.
NATO DEEP Portal Coordinator
University of Warmia and Mazury in Olsztyn
Piotr Gawliczek, PhD is the Associate Professor of the University of Warmia and Mazury in Olsztyn and NATO DEEP ADL Portal Coordinator. His research and educational activities are focused on innovative solutions within the education and training. He supports the efforts of the partner countries within NATO DEEP. He has written numerous publications on questions of ICT, e-learning, Bologna Process, asymmetric threats and leadership. He has implemented e-learning/ADL system solutions, based on LMS ILIAS platform, in many military and civilian educational entities. His hobby is Nordic Walking and foreign languages.

Presentation Title: Specifications and Standards Utility within NATO DEEP ADL: Experiences and Lessons Learned from Alliance Partner Countries ADL Capacity Building

BENJAMIN GOLDBERG, PH.D.
Senior Scientist
U.S. Army Combat Capabilities Development Command-Soldier Center STTC
Dr. Benjamin Goldberg is a senior scientist in the Learning in Intelligent Tutoring Environments (LITE) Lab at the U.S. Army Combat Capabilities Development Command-Soldier Center (CCDC-SC), Simulation and Training Technology Center (STTC) in Orlando, FL. He has been conducting research on simulation-based training for the past eleven years, and is co-creator of the Generalized Intelligent Framework for Tutoring (GIFT). Dr. Goldberg’s research focuses on adaptive learning and leveraging artificial intelligence tools and methods for the management of targeted and personalized training experiences. Currently, he is investigating capabilities to inform training management tools and intelligent tutoring functions in support of the Army’s Synthetic Training Environment modernization program. His work has been published across several well-known conferences, with recent contributions to the Human Factors and Ergonomics Society (HFES), Artificial Intelligence (AI) in Education and Intelligent Tutoring Systems proceedings. He has also recently contributed to the IEEE Transactions of Learning Technologies, the International Journal of AI in Education, Computers in Human Behavior and the Journal of Cognitive Technology.

Presentation Title: Training Management and STE (Synthetic Training Environment): Mapping Squad Level Competencies in Simulation Data through a GIFT/TLA Integration and Industry Roundtable: Upcoming Government Requirements for Vendors

JIM GOODELL
Senior Analyst
Quality Information Partners & IEEE ICICLE
Jim Goodell co-chairs IEEE ICICLE’s Competencies, Curriculum, and Credentials SIG, serves on the ICICLE Steering Committee; and chairs the IEEE LTSC Competencies WG. He leads development of CEDS.ed.gov data standards as Senior Analyst at Quality Information Partners. He was an executive at CELT, Sound Image, and Chief Technologist at PixelDance developing online training solutions for Fidelity, Adobe, others.

Presentation Title: Engineering Better Learning: Practical On-Ramps to the Emerging Practice of Learning Engineering

BARBARA GREENSTEIN
Sr. Instructional Designer
Epsilon Systems Solutions, Inc.
Barbara Greenstein is a performance improvement specialist providing proven and creative ways to improve human performance in the workplace. By identifying issues and opportunities for improvement, she helps organizations large and small meet their planned goals. Barbara is highly regarded for her instructional design and facilitation skills. With more than 25 years of experience in the learning and development field, her mission is to help clients put the systems in place that help them more effectively manage in today’s changing business environment while ensuring optimal performance and job satisfaction for all employees.

Presentation Title: The Emerging ID World of AR/VR
MARIA HO

Director of Research
Association for Talent Development

Maria Ho leads the research team at the Association for Talent Development (ATD), the world’s largest professional member organization serving those who develop the knowledge and skills of employees. ATD was previously known as the American Society for Training & Development and is headquartered in Alexandria, VA. Maria has been with ATD for over 5 years, she received her bachelor’s degree from Harvard University and her master’s degree from The Johns Hopkins University. Maria and her team produce research reports and case studies on a wide variety of topics, ranging from benchmarking corporate training spending and hours to looking at how changes in technology will impact the skills workers need to develop.

Presentation Title: The Future of Work: Technology, Predictions, and Preparing the Workforce

GARETT HOWARDSON, PH.D.

Research Psychologist
U.S. Army Research Institute for the Behavioral and Social Sciences

Dr. Howardson is a Research Psychologist at the U.S. Army Research Institute for the Behavioral and Social Sciences where he manages the Learning in Formal and Informal Environments portfolio. Dr. Howardson’s work centers on integrating learning conceptualizations that span diverse temporal, social, and spatial scales. One such question, for example, might be, “What are the similarities between how a neuron learns and how an organization learns?” To pursue such questions, Dr. Howardson combines his background in industrial-organizational psychology, quantitative research methods, and computer science.

Presentation Title: Bottom-Up Views of Distributed Learning: The Role of Distributed Cognition

CDR GEIR ISAKSEN

Staff Officer Digitalization and Pedagogy
Norwegian Defense University College

Commander (CDR) Geir Isaksen has more than fifteen years in the field of Advanced Distributed Learning (ADL) and is responsible for more than 30 defense projects in the field of digital learning methods and learning technology. He has published more than 20 papers covering different fields like mobile learning, student motivation, cognitive overload in e-learning and use of video lectures. He has a master’s degree in Information Computer Technology (ICT) & Learning from the University of Aalborg (2014) and a bachelor’s degree in Electrical Engineering from Vestfold University College (1998). CDR Isaksen holds the position as a Staff Officer for digitalization and pedagogy at the NoDUC/Faculty administration, where he is responsible for leading and coordinating procurement, development and implementation of digital learning projects and use of defense LMS. His military background is from the Navy, serving on submarines for six years as an electro officer and he is also responsible for international ADL cooperation at the NoDUC and MoD funded international ADL capacity building projects.

Presentation Title: Building ADL Capacity Through Security Sector Reform Projects

HARRI KETAMO, PH.D.

Founder & Chairman
Headai LTD

Harri Ketamo, Ph.D., is an entrepreneur with 20 years of experience in cognitive sciences, computational intelligence, complex adaptive systems and game development. Currently he is founder & chairman of Headai, a company developing cognitive artificial intelligence for lifelong learning. He’s also actively participating in academic research as a senior fellow at University of Turku. Previously Ketamo has been e.g. founder & CEO of gameMiner (game AI), xTask (adaptive learning) and SkillPixels (serious games). He has had more than 300 presentations, published more than 100 peer-reviewed research articles and developed products (games, MOOCs, adaptive systems, AI) used in more than 120 countries all over the world.

Presentation Title: Applying xAPI and Machine Learning in Career Planning

DINA KURZWEIL, PH.D.

Director and Assistant Faculty
Uniformed Services University of the Health Science

Dr. Kurzweil is the Director of the ETI and has worked at USU since 2006. In this capacity, she provides strategic direction for the ETI, instructional and educational technology support for faculty, supervision of ETI personnel, and management of the ETI office. Prior to that, she worked at the National Defense University providing direction and vision of the instructional team supporting the Center for Educational Technology. She also is a faculty member in the Health Professions Education program at USU.

She has served on numerous committees and task forces examining a wide range of topics including educational technologies, interprofessional education, professional development for K12 and higher education faculty, learning management systems, program assessment and evaluation, instructional design, and teaching/faculty support paradigms. Dr. Kurzweil has presented at numerous international, national, and regional conferences.

Presentation Title: Instructional Designers and Learning Engineers of the Future
DAVID LEFEVRE, PH.D.

Director
EdTech Lab, Imperial College

I have a long standing interest in the use of technology in education and started teaching my classes at Imperial College online in 2003. My role then evolved to encourage others to teach using technology and in 2005 I formed the Edtech Lab in the Imperial College Business School. Our team has overseen a substantial increase in the use of educational technology at the School. We launched our Global Online MBA programme in 2015, an Online MSc in Analytics in 2018 and currently deliver around 180 online courses each year. We have received awards along the way including a Gold award at the IMS Learning Impact awards in 2010, an Effective Practice Award at the Sloan-C Blended Learning Conference in 2011 and a silver award at the 2018 QS Reimagine Education Conference.

I was co-founder and am now president of the Imperial College e-Learning spin-out firm Epigeum (now a successful part of the Oxford University Press) which publishes high quality online courseware used by 250 universities globally. In 2018 I helped launch Insendi, also spin-out firm from the Edtech Lab focused on online learning platforms.

Presentation Title: Good Practices in Distributed and Online Learning

MAJOR NICLAS LJUNG

Project Manager
Swedish Armed Forces

Major Niclas Ljung serves as a Project Manager at the Swedish Armed Forces Development Unit for Leadership and Pedagogy and holds a degree in Concept Development and Experimentation. He has more than 20 years of experience as a project manager and has been responsible for a multitude of projects within the fields of Advanced Distributed Learning, individual training, education, collective training and leadership. As a member of the Advanced Distributed Learning Global Partnership Network, the NATO Training Group Task Group Individual Training and Education Developments and the NORDEFCO ADL Forum of experts he works closely with the international community in developing defense training and education.

Presentation Title: Operational Integration of Advanced Distributed Learning into Exercises

WO II BOB LUDVIGSEN

Project Manager
Royal Danish Defence College

Bob Ludvigsen is a Warrant Officer II in the Danish Army, posted at the Royal Danish Defence College. He has 10+ years of experience in the area of Advanced Distributed Learning. Over the past 6 years he has specialized in developing games and simulations. He has successfully integrated xAPI into a simulation, making it possible to pull valuable learner data from the sim.

Presentation Title: The Danish Army NCO Academys Use of Lightweight Simulation Before Fieldtraining, Supported by xAPI

NAOMI MALONE, PH.D.

Learning Scientist
ADL Initiative (Contractor)

Dr. Naomi Malone is a Learning Scientist for Lockwood Hills, LLC, currently working as part of Lockwood Hill's team for the Advanced Distributed Learning (ADL) Initiative in Orlando, FL. Naomi has worked as an instructional systems designer since 2013, with design experience spanning academic, business, and military domains. Her current research efforts support self-regulated learning skills for adult learners in online learning environments.

Presentation Title: Detecting Self-Regulated Learning Strategies Using xAPI to Collect Trace Data

STEPHANIE MCNICOL

Research Assistant in Human Systems Engineering
Arizona State University

Stephanie McNicol is a graduate student in the Human Systems Engineering Master of Science program at Arizona State University and a Research Assistant on the ADL initiative funded PERvasive Learning System (PERLS) – Verification, Validation, and Experimental Testing project. She received her undergraduate degree in graphic design and has five years of experience working in higher education as an interaction designer where she collaborated with a multidisciplinary team to improve the online class experience for students and instructors. Her research focuses on exploring the intersection of human factors and visual design.

Presentation Title: A Heuristic Evaluative Framework for Mobile Self-Regulated Learning Design

COL TONY MILICAN

USAF, Director, Future Learning Initiatives, Air University’s eSchool of Graduate PME
Air University

Col Tony L. Millican, Ph.D. USAF, is Course Director for AU’s joint research class on XR emerging technologies in learning. His Auburn University doctoral dissertation focused on “Virtual Reality in Higher Education.” Previous assignments include Deputy Commander for Support of the 2.9M-acre Nevada Test & Training Range and US National Support Commander for 1,200 personnel in Kabul Afghanistan, during a period of high insurgent activity.

Presentation Title: XR Emerging Technologies at Air U
PHILL MILLER

Chief Learning and Innovation Officer
Blackboard, Inc.

With over 14 years experience in education technology, Phill Miller serves as Chief Learning and Innovation Officer at Blackboard. In his role, Phill leads new growth opportunities in the areas of teaching and learning as well as student success, exploring ways to re-envision the teaching and learning market.

Prior to his current role at Blackboard, Phill was Vice President of Teaching and Learning, during which he was responsible for leading the product strategy, roadmap, management and marketing for Blackboard's suite of world-class online teaching and learning solutions. He has also served as Vice President and Business Line Manager of Blackboard Open LMS, the open source division of Blackboard.

Phill joined the company in 2012 with the acquisition of Moodlerooms, where he was Vice President of Product Strategy. During his tenure at Moodlerooms, he helped to build an innovative Software-as-a-Service Learning Management System on a global, open source learning platform, and invented cross-platform content sharing software for delivering open educational resources.

Earlier, Phill served as Director of Business Development at Oxygen Education, LLC and as Product Manager/Senior Solutions Architect at ANGEL Learning, Inc.

He holds a Juris Doctorate from Indiana University School of Law, a Master of Business Administration from Indiana University, and a Bachelor of Science in Computer Science/Information Systems from Ball State University.

Presentation Title: Who Cares? A Strategic Look at Modernizing Learning

KEVIN OWENS

Engineering Scientist
Applied Research Laboratories: The University of Texas at Austin

Kevin Owens is an Data Scientist and Instructional Designer at the Applied Research Laboratories: The University of Texas at Austin (ARL:UT). At ARL:UT, Kevin works in the Signal and Information Science Lab where he reconstructs and analyzes live warfighter data, and uses that data to design and research advanced warfighter training, assessment and learning models for the US Navy and US Army.

Kevin is a retired US Navy Chief Petty Officer with over 20-years of military operational training and assessment experience. Kevin has a Bachelor's and Master's Degree in Instructional Design, Development and Evaluation, as well as numerous certificates and certifications in Computer Science.

Over the past 18-years, Kevin has accumulated broad experience researching, designing, developing and implementing training and assessment content and technologies to improve DoD related learning and human-performance areas, as well as conducting Human System Integration and Performance Synergy design work for both DoD and Industry.

Kevin, his wife and daughter has lived in Austin Texas for the last 12-years, after moving to and living in numerous states and countries, and is originally from the San Francisco Bay-Area.

Presentation Title: Augmented Reality Based Extensible-Experiential-Expertise (X) Learning-Model Objectives

SHRIKANT PATTATHIL

President
Harbinger Systems

Shrikant’s solutions have ranged from development frameworks, data architectures, schema designs to test strategies for applications for thin-client, rich-client and desktop.

In the course of his tenure, Shrikant has held key positions including Project Leader, On-Site Coordinator and Lead Manager R&D. He has worked out of Harbinger’s offices in Redmond, WA for two years and has also completed several on-site customer consultations across the US.

Shrikant’s contribution in e-learning specifications has been recognized by the Aviation Industry CBT Committee, where he is a frequent speaker. He has also architected the Offline Content Player, a unique product that enables e-learning for users that need to cope with limited connectivity. Organizations such as Northwest Airlines and Bristol Myers Squibb are using this solution to enable offline learning. He has an Executive Certificate in Strategy and Innovation from MIT Sloan School of Management.

Presentation Title: Best Practices for Nudge Learning to Drive Learner Adoption and Performance
ROBERT PEACH, PH.D.

Professor of Mathematics (Online Program Analytics)
Imperial College

Robert Peach obtained a PhD in Applied Mathematics and Physical Chemistry from the Imperial College London. Over the past 2 years he has conducted postdoctoral research at Imperial College as a joint member of the Department of Mathematics, Imperial College Business School and the Department of Medicine. He is currently working on developing mathematical models to analyse temporal data corresponding to students undertaking on-line courses with Imperial College. His current research looks to uncover engagement behaviours of students from their time-series ‘click-stream’ data and subsequently identify the relationship between behaviour and performance.

Presentation Title: Challenges in Providing a Semi-Connected Learner Experience with xAPI

JULIA PELTON

Project Manager
Modest Tree Media Inc.

Julia Pelton oversees Project Management at Modest Tree. She seeks out new opportunities, oversees stakeholder relations and develops strategic partnerships for the growth of the organization. She holds a bachelor’s degree in Environmental Science and International Development, a certificate in Project Management, and a master’s degree in Business Administration. Julia has worked across varied industries throughout her career. She has over 10 years of experience overseeing all phases of multi-million dollar projects that span energy, defence, aerospace, and healthcare. Julia is well versed in project management methodologies, project planning, team building, and communication.

Presentation Title: Good Practices in Distributed and Online Learning

DANIEL PFEIFFER

Lead Developer
Float, LLC

Daniel is the Lead Developer for 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. Daniel 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. Daniel has proficiency with a number of open and proprietary industry standards, including the Experience API (xAPI). He has implemented xAPI reporting in multiple applications and built a reusable Objective-C framework to help others quickly implement xAPI reporting to their iOS apps. 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.

Presentation Title: Challenges in Providing a Semi-Connected Learner Experience with xAPI

BILJANA PRESNALL

Vice President
Jefferson Institute

Biljana Presnall is Vice President of the Jefferson Institute. In her role as lead software systems architect, she has over 15 years of experience in designing and developing distributed learning solutions, simulations, courseware, and learning technologies for government and academic stakeholders. She specializes in international development, deploying digital tools, and integrating them with research and education systems to transform societies by empowering engaged access to information.

Presentation Title: VR Balkan Medical Task Force

NUNZIO QUACQUARELLI

Chief Executive Officer
QS Quacquarelli Symonds

Nunzio Quacquarelli is founder and CEO of QS Quacquarelli Symonds Ltd. Nunzio passionately believes in QS’s mission to help young people fulfill their potential through educational achievement, international mobility, and career development.

Since 1990, Nunzio has led QS to become a leading player in higher education student recruitment and solutions. Today, QS serves over 1500 HE institutions. Best known for producing the world’s most popular rankings – QS World University Rankings - QS is also a world leader in international postgraduate student recruitment, running 350 events in 57 countries, online platforms attracting over 70 million web visitors and offering student enrollment solutions. QS Professional Services offer; higher education data intelligence and technology solutions supporting strategy, partnerships, mobility and international enrollments.

In 1986 Nunzio graduated with a MA in Economics from University of Cambridge. In 1990 he earned an MBA from The Wharton School in the USA.

Presentation Title: Innovative Approaches to Learning, Teaching, and Nurturing Employability – Lessons from Wharton-QS Reimagine Education Global Awards & Good Practices in Distributed and Online Learning (Moderator)

LT. COL RORY QUINN

Close Combat Lethality Task Force
Office of the Secretary of Defense

LtCol Rory Quinn is a career infantry officer in the U.S. Marine Corps who is currently serving as a member of the Secretary of Defense’s Close Combat Lethality Task Force. The CCLTF provides focused recommendations on Department of Defense and Military Service efforts to achieve close combat overmatch to ensure infantry squads are never in a fair fight.

Presentation Title: Close Combat Training via Integrated Visual Augmentation System and Industry Roundtable: Upcoming Government Requirements for Vendors

Presentation Title: Challenges in Providing a Semi-Connected Learner Experience with xAPI
KRISTINE RABBERMAN, PH.D.
Assistant Vice Dean
University of Pennsylvania, LPS, SAS

Kristine Rabberman is Assistant Vice Dean and Director of Academic Affairs for the College of Liberal and Professional Studies, a division of the School of Arts and Sciences at the University of Pennsylvania. In this role, Kris has been serving as the project lead for the new online Bachelor of Applied Arts and Sciences program, working with a large cross-functional team of staff and faculty to bring the BAAS from brainstorming stages to proposal to approval, with the certificate launch completed in Fall 2018 and the degree launch coming in Fall 2019. Kris has a Ph.D. in Medieval History and teaches online graduate courses, including History of Sexuality and Academic Writing & Research Design. She is the recipient of the UPCEA Mid-Atlantic Award for Excellence in Teaching and LPS's Distinguished Teaching Award for Affiliated Faculty. She is also the chair elect for UPCEA's Mid Atlantic Region.

Presentation Title: Good Practices in Distributed and Online Learning

PRASAD RAM, PH.D.
Founder, Chief Executive Officer
Gooru

Dr. Prasad Ram (“Pram”) started Gooru as a “20% project” while at Google to develop a “GPS for Education and Skills” to bring the simplicity and assured success to learning. At Google, Pram led Google Books for Education in Mountain View and before that he was the head of Google R&D in India where he 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 scientist at Xerox Research.

Pram is a Council Member and Chair of the Education Committee at the California Council of Science and Technology. Pram is also a board member at Leadership Public Schools. Pram has a Ph.D. in Computer Science from UCLA, and a B.Tech. in Computer Science from Indian Institute of Technology-Bombay, India.

Presentation Title: TLA Collaborative Mission Control and Self-Regulating Ecology

SHARON RIDINGS, SES
Chief Learning Officer
U. S. Environmental Protection Agency

Sharon Ridings is currently EPA's Chief Learning Officer, located in the Office of Human Resources, Washington, DC. Sharon has been with the Federal Service for over eighteen years leading EPA in its multi-media approach for professional employee and leadership development programs. Prior to joining the EPA, Sharon was the Regional Training Manager for Harrah's Entertainment in Memphis TN, focusing on organizational and individual leadership development at all levels of the organization. She spent the first 21 years of her professional career in the banking industry learning the ins and outs of financial management and quality customer service. Sharon’s focus and passion for personal and professional development is displayed in the work she does with current and future agency leaders. Working with colleagues across the Agency, Sharon has the platform to share valuable tools and techniques to help develop and improve individual leadership abilities. She strives to provide agency employees with safe learning environments in which to explore and experiment with various competency-based leadership activities. All this work moves EPA to a desired outcome of performing at a higher level, personal and professional excellence and meeting the goals of the Agency, protecting human health and the environment. Sharon is a certified executive coach and holds a bachelor’s degree in Business Administration from Husson University and one in Liberal Arts from the University of Maine. Her philosophy is to keep an open mind to change and opportunities that will allow us to discover and embrace exciting possibilities for today and tomorrow! Each of us needs to find something that inspires us every day, keeps us focused and motivated, so we can have a positive impact on our work and those we serve.

Presentation Title: Who Cares? A Strategic Look at Modernizing Learning

ROBBY ROBSON, PH.D.
CEO / Member, Board of Governors
Eduworks Corporation / IEEE Standards Association

Robby is a researcher, entrepreneur, and standards professional known for creative and disruptive innovation in industry and academia. He is co-founder and CEO of Eduworks Corporation, serves on the IEEE Standards Association Board of Governors, and chair of the IEEE Standards Education Committee for 2019, which is responsible for Standards University and for training and education concerning the IEEE standards process and the value of standards in general. He and the other presenters are long time contributors to ADL-related research and standards as Government employees or contractors and as volunteer contributors.

Presentation Title: The IEEE Learning Technology Standards Committee (IEEE LTSC) Standards Program
**GIGI ROMAN**

**eLearning Coordinator**
NATO School Oberammergau

Gigi Roman is one of the Course Directors for the NATO eLearning Design Development and Deploy course and the Advanced Distributed Learning (eLearning) Coordinator responsible for NATO School’s online education, training and online content management, including new product design and strategic relationships for the organization learning management system, authoring tools and collaboration solutions. In previous roles with NATO School and PIP community, he has overseen the development of web-based knowledge management systems and the repurposing of instructional materials for online delivery.

**Presentation Title: From Paper Certificates to Digital Badges**

**YASIR SALEEM**

**Sr. Solutions Consultant**
Adobe Federal Systems

Yasir Saleem is a Senior 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 and 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. Saleem holds a Bachelor of Science in Integrated Science and Technology from James Madison University, and a Master’s of Science in Information Systems Technology from George Washington University.

**Presentation Title: Experience Driven Learning**

**PAUL SCHNEIDER, PH.D.**

**SVP Business Development**
dominKnow

Paul Schneider has worked in the area of distance communication technologies in academia and corporate for over 18 years, with his primary focus on distance learning. In this capacity he has provided services in the areas including instructional design, web design, classroom, product development, distance instruction, technical support, project management, network administration, and course development. Paul, who holds a PhD, oversees operations and business development at dominKnow, helping to guide the product development and organization to meet their mission to design easy-to-use products that can enable people to develop and deliver high quality training with maximum efficiency.

**Presentation Title: Utilizing xAPI to Track Learning Objectives and Skill/Competencies to Drive Business Decisions and Dynamically Adapt Training Content**

**HEIDI SCHWEINGRUBER, PH.D.**

**Director, Board on Science Education**
The National Academies of Sciences, Engineering and Medicine

Heidi Schweingruber, directs the Board on Science Education at the National Academies of Sciences, Engineering and Medicine (NASEM). She oversees a portfolio of work that includes K-12 science education, informal science education and higher education. Dr. Schweingruber joined the board staff in 2004 as a senior program officer. In this role, she directed or co-directed several projects including the study that resulted in the report A Framework for K-12 Science Education (2011) which served as the blueprint for the Next Generation Science Standards. She is a nationally recognized leader in leveraging research findings to catalyze improvements in science and STEM education policy and practice. She co-authored two award-winning books for practitioners that translate findings of NASEM reports for a broader audience: Ready, Set, Science! (2008) and Surrounded by Science (2010). She holds a Ph.D. in psychology and anthropology, and a certificate in culture and cognition from the University of Michigan.

**Presentation Title: Who Cares? A Strategic Look at Modernizing Learning**

**TJ. SEABROOKS**

**Chief Executive Officer**
Rustici Software

TJ Seabrooks is the CEO of Rustici Software, which helps eLearning companies work well together by compliance with specifications like SCORM or xAPI, and before that he served as the 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 (BAAs) awarded to Rustici by Advanced Distributed Learning Initiative (ADL) and has been a key contributor to the xAPI specification since 2012. TJ has an M.S. in Computer Science from Vanderbilt University and a B.S. in Computer Science from Mount Vernon Nazarene University.

**Presentation Title: Taking xAPI Profiles Further: A Strategic Approach to Utilize xAPI Profiles to Address Specific Requirements within the DoD and Guidance for Putting the Process into Practice**
GEORGE SIEMENS, PH.D.

Executive Director of the Learning Innovation and Networked Knowledge Research Lab
University of Texas at Arlington

George Siemens researches, technology, networks, analytics, and openness in education. Dr. Siemens is Professor and Executive Director of the Learning Innovation and Networked Knowledge Research Lab at University of Texas, Arlington. He co-leads the development of the Center for Change and Complexity in Learning (C3L) at University of South Australia. He has delivered keynote addresses in more than 35 countries on the influence of technology and media on education, organizations, and society. His work has been profiled in provincial, national, and international newspapers (including NY Times), radio, and television. He has served as PI or Co-PI on grants funded by NSF, SSHRC (Canada), Intel, Boeing, Bill & Melinda Gates Foundation, and the Soros Foundation. He has received numerous awards, including honorary doctorates from Universidad de San Martín de Porres and Fraser Valley University for his pioneering work in learning, technology, and networks. He holds an honorary professorship with University of Edinburgh.

Presentation Title: Learning Analytics Experts Discussion

TUSHAR SINGH

Chief Executive Officer
Minute School

Tushar Singh has been creating leading-edge learning platforms for over 15 years. Starting in 2001 with the creation of a flipped learning platform for the University of Waterloo, he has constantly worked to provide students with a learning environment that suits their needs. Since then he has co-founded a video game company, corporate eLearning companies, and Internet marketing companies. His priority during this period has been determining how to improve student engagement and learning through mobile technologies enhanced by recommendation systems. This journey has led to his latest startup, Minute School, which delivers adaptive micro-courses using a vast variety of activity data.

Presentation Title: Minute School's Recommendation System Based on xAPI LRS

MIKE A. SMITH

Director, Data Analytics
ICF

Michael Smith has more than 15 years of experience in analytics, strategy, innovation, and project/program management. Michael currently advises several U.S. Department of Defense clients on how to adapt emerging data science practices to improve performance. At the U.S. Army Research Laboratory, Michael successfully led a team of computational scientists and learning researchers to develop a novel approach to course effectiveness evaluation using simulation, pattern recognition, and factor analysis. The project resulted in a number of peer-reviewed publications and a book chapter. Michael’s study at a U.S. Air Force Major Command led to a series of organizational changes and leadership initiatives to modernize learning practices and instill a culture of innovation.

Michael regularly publishes and presents on the topics of data science, analytics, and other emerging technologies. He helped develop the Institute for Operations Research and Management Science’s (INFORMS) industry-leading credential for analytics, the Certified Analytics Professional (CAP), as part of the inaugural examination group. He was also a study guide author (2014). Michael holds a master’s of public policy from Georgetown University and a Bachelor of Arts in international economics from Longwood University.

Presentation Title: A Persona-Based Analytics Framework for Learner Experience Mapping

ERICA SNOW, PH.D.

Sr. Mgr Learning Science & Data Science
Imbellus

Dr. Snow is an interdisciplinary researcher with expertise in cognitive psychology, human-computer interactions, data mining, and learning analytics. Her research examines how patterns of behavior can be extracted from digital environments to better understand and ultimately support users’ cognitive, metacognitive, and regulatory processes. Dr. Snow had over 8 years of experience analyzing and interpreting “big data” sets that include process, natural language and physiological data. Dr. Snow has over 60 peer-reviewed publications and currently works as the SR. Manager of Learning and Data Scinece at Imbellus.

Presentation Title: Learning Analytics Experts Discussion

BRENT SMITH

R&D Principal
ADL Initiative (Contractor)

Mr. Brent Smith is a Software Systems Architect with over 20 years of experience in designing and developing learning technologies for government stakeholders, defining R&D roadmaps to meet organizational objectives, and establishing chains of research that align with strategic goals. As the ADL Initiative R&D Principal, Mr. Smith helps ensure the ADL Initiative research agenda is aligned with its overall strategy.

Presentation Title: Total Learning Architecture: An Abolitionist View of Data Stovepipes and Ongoing Modernization
Ms. Janet Spruill is a Vice President of Programs at Aptima, Inc. She has more than 25 years of experience serving as Principal Investigator (PI) for simulation and training, performance support, knowledge management, and organizational development programs across defense, intelligence, federal, and commercial sectors. She has deep expertise as a human performance technologist, learning solutions architect, and principal consultant developing and working with technology-based learning systems. Ms. Spruill currently leads Aptima’s efforts in support of the US Navy’s Center for Surface Combat Systems, where Aptima’s A-Measure software suite is being used to capture, measure, assesses, and visualize learner performance data in real-time using observer, system, and self-report methods. Aptima is also leveraging adaptive instructional techniques and technologies to leverage this data and turn it into intelligent and actionable information for decision making and tailored learning. Over her career, she has supported or led more than 48 defense and federal learning and performance support programs.

Presentation Title: Leveraging xAPI for AI-based Performance Measurement and Adaptive Learning

PAUL THURKETTLE

NATO Training Technologies Section Head
NATO Allied Command Transformation

Paul Thurkettle is a British NATO civilian working at one of the two NATO strategic commands, ACT based in Norfolk, Virginia. His tenure with NATO since 1990, and 12 years of Royal Air Force service, have 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 and training technology into NATO, covering all aspects of this field from serious games to mobile learning (mlearning). Paul lives in Hampton, Virginia with as many boats as he can afford.

Presentation Title: Protection of Civilians/Children in Armed Conflict VR and Strengthening Alliances and Building Partnerships Through ADL

DAVID TILESTON

Cyber Security Engineer
Software Engineering Institute

David Tileston is a cyber security engineer and exercise developer at Carnegie Mellon University’s Software Engineering Institute. He has worked in cybersecurity with the Department of Defense for the past five years.

Presentation Title: Measuring Success In Self-Guided Information Assurance Training

SARAH TOMS

Executive Director
Wharton Interactive

Sarah E. Toms is executive director and co-founder of Wharton Interactive. She is a demonstrated thought leader in the educational technology field, fueled by a passion to find and develop innovative ways to make every learning environment active, engaging, more meaningful, and learner-centered. Her drive to modernize, transform, and democratize education led Sarah and her team to co-invent Simpl, world, an open source simulation framework. She has spent more than twenty years as a leader in the technology sphere, and was an entrepreneur for over a decade, founding companies that built global CRM, product development, productivity management, and financial systems. In addition, she is coauthor with Peter S. Fader of The Customer Centricity Playbook. She is dedicated to supporting women and girls in the technology field through her work with the Women in Tech Summit and techgirlz.org. Follow her on twitter at @SarahEToms.

Presentation Title: Good Practices in Distributed and Online Learning and Alternate Reality Courses: A Paradigm Shift in Using Games to Activate Learning

GEORGE VILCHES

President
JCA Solutions

George Vilches is the president of JCA Solutions, an e-learning standards expert consultancy. He trains organizations on SCORM and Experience API challenges and integrating these technologies within myriad environments, and oversees custom integration projects for companies looking to up their e-learning standards game. George leads a team focused on the distribution challenges of e-learning content and student tracking to find new technologies, techniques and approaches to making learning truly accessible worldwide. George also contributes to the IEEE xAPI working group and other learning standards bodies.

Presentation Title: No Device Left Behind - Solving the Offline Learning Challenges of xAPI and cmi5

TIM WELCH

Instructional System Specialist
Naval Air Warfare Center, Training Systems Division

Tim Welch has served as the instructional lead for the Modern Learning Strategies for the Naval Air Warfare Center Training Systems Division (NAWCTSD). With MLS, Tim has explored mobile learning, augmented reality for performance support and training, 360 degree video virtual environments, and supported the adoption of xAPI in the Naval training enterprise. Recently he has supported the Navy’s Ready Relevant Learning initiative as the lead instructional technologist.

Presentation Title: Implementing xAPI Profiles in the Navy: Case Studies and Recommendations
DUNCAN WELDER

Director of Client Services
RISC Inc.

Duncan Welder is a Director of Client Services for RISC Inc. Duncan is a self-described educational technology geek and has spent over 20 years implementing learning management systems, domestically and abroad, with a focus on high compliance industries. As an xAPI enthusiast with a career grounded in instructional design and eLearning, Duncan has provided presentations to professional organizations including the Connections Forum, The eLearning Guild, and the Association for Talent Development. Duncan holds a Master of Education from Texas A&M University in Educational Technology. 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, Mr. 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 Training Magazine, Learning Solutions Magazine, xAPI Quarterly as well as US Business Review.

Presentation Title: Driving Retention: Using Technology to Support Learning Science

YORAM (JERRY) WIND, PH.D.

Lauder Professor Emeritus
The Wharton School of the University of Pennsylvania

Jerry (Yoram) Wind joined Wharton in 1967 with a doctorate from Stanford. He is the Lauder Professor Emeritus and Professor of marketing. He founded the Wharton Think Tank – The SEI Center for Advanced Studies in management and ran it for 3 decades. He has edited top marketing journals, published over 300 articles, and 25 books. A recipient of the 4 major marketing awards and inductee to the inaugural group of AMA Fellows and in 2017 to the Marketing Hall of Fame. One of the original Legends in Marketing, with an 8-volume anthology published by Sage in 2014. He has consulted with over 100 companies, sits on the executive committee of SEI and advisory boards of various companies and nonprofit organizations, and testifies in intellectual property cases. A trustee of the PMA and the Curtis Institute of Music and chairs their marketing and communication committees. A co-founder of The Interdisciplinary Center Herzliya Israel.

Presentation Title: Who Cares? A Strategic Look at Modernizing Learning

JONATHAN WOODS

Director
DoD Voluntary Education

Jonathan Woods enlisted in the U.S. Navy in 1988, logging 110 aerial combat support missions in the Persian Gulf. Following military service Dr. Woods spent eight years teaching military tactics while earning a BS degree from Southern Illinois University, an MBA from Jacksonville University, and Ph.D. in educational administration from the University of Florida.

Dr. Woods spent 15 years developing curricula for multiple corporate and government entities, and lectured for multiple universities in the educational disciplines of learning technology and instructional design, among others. Since 2007 he has held a variety positions within the Department of Defense. He is currently the acting director of Voluntary Education within the office of the Undersecretary for Personnel and Readiness.

At home in Northern Virginia, he and his family are having a go at modern homesteading.

Presentation Title: DoD Career Ready Portal, Open for Business!

LEE ZERFASS

Founder
Imagine-Invest-Create

Lee Zerfass worked in networking and printing technologies for many years, but had a tremendous desire to participate in the technology incubator culture of the Tampa Bay Region. Zerfass founded Imagine-Invent-Create (IIC) in 2017 to host a maker space in Odessa, Florida which quickly expanded into a legitimate technology workshop. By 2018, he shifted IIC into high tech design, taking on innovative technology projects and providing a high-tech meeting space for informal technology user groups and incubator or workshop space for development teams. Lee Zerfass, through IIC, currently specializes in using additive printing and other technologies to deliver Interactive Models, Virtual Experience Systems and Applied Technology Solutions. Lee is married with 3 kids, together you’ll find them all at the hockey rink, on the ice or coaching youth hockey.

Presentation Title: AR/VR Platforms

MARJORIE ZIELKE, PH.D.

Research Professor
University of Texas, Dallas

Dr. Marjorie Zielke is an assistant professor of arts and technology and associate director of reserach for the Institute for Interactive Arts and Engineering at The University of Texas at Dallas. She is a pioneer in serious gaming conducting award-winning gaming projects to provide cultural training for U.S. soldiers serving in the Middle East and to educate nurses caring for pediatric respiratory patients. her research focuses on exploring the intersection of human factors and visual design. her current work investigated the roll of virtual humans for training within mixed reality environments.

Presentation Title: Collaborative Augmented Reality with Virtual Humans to Support Social Learning
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TUESDAY, 27 AUGUST
1000 – 1900

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0930 – 1330
TABLE TOP DISPLAYS

ADL INITIATIVE

The Advanced Distributed Learning (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 science techniques and technologies via research, development, and collaboration. This DoD initiative reports 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)), with the goal to increase readiness, save resources, and facilitate inter-organizational collaboration. Bridging across Defense and other Federal agencies, the ADL Initiative facilitates interoperability and promotes best practices for using distributed learning to provide the highest-quality education, training, and informal learning; tailored to individual needs and delivered cost-effectively, anytime and anywhere. The ADL Initiative’s Total Learning Architecture (TLA) is a research and development activity intended to provide a framework of specifications to ultimately enable “plug-and-play” interoperability among learning technologies. The TLA will define a set of technical guidelines, APIs, middleware, and data model descriptions that define how training, education, and personnel management technologies “talk” to each other—both syntactically and semantically.

ADOBE

Adobe Digital Government solutions enable agencies to make, manage, mobilize and measure the information, experiences and knowledge needed to achieve their missions. With 25 years of proven innovation, Adobe is transforming the way agencies interact —real-time, on any device. For more information on our digital government solutions, please visit www.adobe.com/government.

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dominKnow provides a continuum of products that enable collaborative creation and customization of content, unique to your organization’s formal and informal needs all with no programming needed to support xAPI. Solutions include dominKnow | ONE, off-the-shelf editable content, & Clarofy.

LINCHPIN SOLUTIONS

Linchpin Solutions offers curriculum development services that integrate modern learning methods with virtual reality software to produce dynamic customer specific and role-based solutions. For more information visit www.linchpinsolutions.com.

MODEST TREE

Modest Tree is an award-winning software company focused on creating virtual reality, augmented reality and 3D interactive solutions for leading OEMs, airlines and military clients seeking to advance their immersive training and marketing solutions.

ONLEARNINGPOINT

Onlearningpoint is focused on tracking the informal learning that happens outside the classroom. Their latest product offering is LEW, a xAPI enabled Learning Experience Widget that records interactions with multiple media types within the Sharepoint environment. LEW empowers learners to take charge of their informal learning and offers the organization greater visibility into their Sharepoint content.

PRAGMATIC

Pragmatics specializes in the design, installation and support of training environments throughout the DoD and Civilian Agencies. With technology implementations from classrooms to specialized gaming/sim environments we have implemented over 4,700 environments nationally since 2011. With a focus on training, our team is aligned as direct dealers with the largest IT, Computing and Audiovisual manufacturers to lower costs and provided innovative solutions.
**RUSTICI SOFTWARE**

Since 2002, Rustici Software has been the world’s e-learning standards experts. We are the leading provider of products and services to assist with SCORM, AICC, and xAPI (also known as the Experience API or Tin Can API). Hundreds of LMSs, authoring tools, LRSs and content libraries are powered by Rustici Software technology, allowing online learning content and learning management systems to communicate and work together.

Along with vendor clients, a wide variety of organizations around the world use Rustici Software’s solutions today to solve various needs, including Military and Government services, Educational institutions and enterprise clients across a variety of industries.

Rustici Software researched and drafted the first xAPI specification through a BAA from Advanced Distributed Learning (ADL). They continue to support the development of the spec and strive to help people make the best use of it.

Based in Franklin, TN, Rustici Software has been voted one of Nashville’s best places to work eight years in a row.

Rustici Software is part of Learning Technologies Group plc’s award-winning group of specialist learning technology businesses. For more, visit rusticisoftware.com.

**VARJO TECHNOLOGIES**

Varjo makes revolutionary VR/XR hardware and software that together are jumpstarting a new era in immersive computing – where real and digital worlds merge seamlessly in human-eye resolution. Our Bionic Display technology allows you to see virtual and augmented content as clearly as you see the analog world around us. Varjo’s virtual and mixed reality devices will profoundly change the way professionals work, design and create. When we’re done, computers will look nothing like they do right now.

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Yet Analytics is a leading provider of data technology solutions to learning and training organizations in the U.S. Federal Government, to commercial Learning Technology companies, and to Education and L&D organizations. Our portfolio of capabilities includes software and solutions built to support learning organizations and learning technology companies in the implementation of advanced data architecture, data fusion, and data analytics.

**SIMULATIONDECK**

SimulationDeck is the leading information environment simulator and training event management tool. It is helping the U.S. Department of Defense, federal, state, and local agencies, UN agencies, and private companies be better prepared to navigate the online information environment, make better decisions, save more lives, and defend brands and bottom lines. SimulationDeck is the flagship product of Nusura, a Denver-based consulting and technology firm that helps public, private, and nonprofit entities in all-hazards crisis and emergency preparedness (including cyber), strategic communications, and strategic planning. Nusura combines experience responding to crises, emergencies, and military operations with innovative technologies to solve complex problems. SimulationDeck, is a private, accessible, cloud-based application that powers training and exercises while replicating the internet, social media, blogs, video sites, and traditional media to create real-world training experiences.
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