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T3 Innovation Network: Exploring Web 3.0 Technology Applications in the Talent Marketplace

U.S. Chamber of Commerce Foundation & Lumina Foundation Panel Presents Leveraging Artificial Intelligence, Distributed Ledger Technology, Large-Scale Data Analytics, Machine Learning & Semantic Web Standards at Spring 2018 Data Summit

Washington, D.C. PESC is pleased to announce the **T3 Innovation Network**, a joint initiative of the U.S. Chamber of Commerce Foundation and the Lumina Foundation, as a Featured Session at the Spring 2018 Data Summit being held May 2 – 4, 2018 in Washington, D. C.

From artificial intelligence (AI) and distributed ledgers, to the semantic web, an unprecedented set of disruptive 'Web 3.0' technologies are simultaneously emerging as forces that could dramatically impact and reshape the talent marketplace.

The U.S. Chamber of Commerce Foundation and Lumina Foundation are working with leading employers, universities and colleges, technical standards organizations, technology vendors, and other stakeholders to explore how the convergence of these Web 3.0 technologies can be used to improve and establish a more responsive, dynamic, and inclusive talent marketplace.

Panelists leading the **T3 Innovation Network** will provide an overview of the initiative, engage discussion on the most promising use cases for exploring convergence opportunities, and include:

- **Matt Gee**, *Senior Researcher, University of Chicago; CEO and Co-Founder, BrightHive*
- **Jeanne Kitchens**, *Associate Director, Southern Illinois University Carbondale, Center for Workforce Development*
- **Robert Sheets**, Ph.D., *Research Professor, George Washington Institute of Public Policy*
- **Stuart Sutton**, *Associate Professor Emeritus, University of Washington; Metadata Consultant*
- **Jason Tyszko**, *Vice President, Center for Education and Workforce, U.S. Chamber of Commerce Foundation*

Additionally, at the Spring 2018 Data Summit and as part of the **T3 Innovation Network**, PESC is hosting a special invitation-only convening for the U.S. Chamber of Commerce Foundation and Lumina Foundation of 15-20 leading experts from the artificial intelligence (AI), semantic web and competency data management communities. This initial convening will explore how AI tools can be better used with more structured competency data to improve competency development, translation, alignment and analysis between employers, learners, universities and colleges.

T3 INNOVATION NETWORK: EXPLORING WEB 3.0 TECHNOLOGY APPLICATIONS IN THE TALENT MARKETPLACE

PESC Spring 2018 Data Summit | Washington, D.C. | May 2, 2018 | 3.30pm – 5.00pm



MATT GEE

CEO and Co-Founder, BrightHive

Matt Gee is CEO and Co-Founder at BrightHive, a social enterprise that develops open source and open standard data integration tools powering smarter government and more effective social service delivery. He is also a Senior Research Scientist at the University of Chicago's Center for Data Science and Public Policy and a Research Fellow at the Urban Center for Computation and Data. He is the Co-Founder of the Eric and Wendy Schmidt Data Science for Social Good fellowship.



JEANNE KITCHENS

Associate Director, 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.



ROBERT SHEETS, PH.D.

Research Professor, George Washington Institute of Public Policy

Robert conducts research related to education, workforce development, and economic development policy as well as labor market and education and workforce data systems. He is currently conducting research on building a public-private data infrastructure for improving transparency and performance in the talent marketplace.



STUART SUTTON

Associate Professor Emeritus, University of Washington

Stuart's research areas include meta-data and networked information discovery and retrieval, technology-mediated teaching and learning, cognition, and the information seeking behavior of discourse communities, mental models in information system design, and the law and policy of intellectual property. He chaired MLIS degree programs at the University of Washington and Syracuse University and as Director of the School of Library and Information Science at San Jose State University in Silicon Valley.



JASON TYSZKO

Vice President, Center for Education and Workforce, U.S. Chamber of Commerce Foundation

Jason A. Tyszko is Vice President of the Center for Education and Workforce at the U.S. Chamber of Commerce Foundation. Through events, publications, and policy initiatives, the Center for Education and Workforce— in partnership with Chamber members and business leadership seeks to cultivate and develop innovative thinking that spurs action to preserve America's competitiveness and enhance the career readiness of youth and adult learners.

The **T3 Innovation Network** is comprised of four workgroups organized to address convergence challenges and opportunities and discuss possible pilot projects using Web 3.0 Technologies, defined as semantic web standards (e.g., linked data), distributed ledger technology (e.g., blockchain), artificial intelligence, machine learning, and large-scale data analytics. Workgroup #1: *Stakeholder Use Cases for Achieving Breakthrough Innovations* launches with an open webinar on Monday April 9, 2018 from 1:00 pm – 2:30 pm EST and will serve as the foundation for the remaining three workgroups.

The special convening hosted by PESC at the Spring 2018 Data Summit, Workgroup #2, will be used to help frame and guide additional work, identify pilot projects that can best leverage leading practices in AI and semantic web

technologies, address the most critical stakeholder use cases in the talent marketplace, and participate in preliminary design of high-impact demonstrations of the application of these technologies.

The Program for the PESC Spring 2018 Data Summit is now available and posted online. PESC is pleased and honored to present this distinguished assembly of Featured Speakers and Topics:

INTRODUCING EMREX.EU

- **Geir Magne Vangen**, *Head of Systems Development, University of Oslo; CERES*

GENERAL DATA PROTECTION REGULATION – GDPR PANEL

- **Mary Chapin**, *Chief Legal Officer, National Student Clearinghouse*
- **Melanie Gottlieb**, *Deputy Director, AACRAO*

MODEL OF A DIGITAL STATE: INDIANA ETRANSCRIPT & THE COMMISSION FOR HIGHER EDUCATION

- **Ken Sauer**, Ph.D., *Sr. Associate Commissioner, Chief Academic Officer, Indiana Commission for Higher Education*

INNOVATING DATA INTEGRATION WITH COMPREHENSIVE LEARNER RECORDS

- **Mike Reilly**, *Executive Director, AACRAO*

THE NATIONAL FORUM ON EDUCATION STATISTICS – RESOURCES & TOOLS

- **Levette Williams**, *Past Chair and Member, National Forum for Education Statistics*

T3 INNOVATION NETWORK: EXPLORING THE POTENTIAL OF WEB 3.0 TECHNOLOGIES TO IMPROVE THE TALENT MARKETPLACE

- **Matt Gee**, *Senior Researcher, University of Chicago; CEO & Co-Founder, BrightHive*
- **Jeanne Kitchens**, *Associate Director, Center for Workforce Development Southern Illinois University*
- **Robert Sheets**, Ph.D., *Research Professor, George Washington University, Institute for Public Policy*
- **Stuart Sutton**, *Associate Professor Emeritus, University of Washington; Metadata Consultant*
- **Jason Tyszko**, *Vice President, Center for Education and Workforce, U.S. Chamber of Commerce Foundation*

VISION FOR A WORKING NATION

- **Jane Oates**, *Executive Committee, Working Nation*

LUMINA FOUNDATION – MAKING OPPORTUNITIES

- **Amber Garrison Duncan**, Ph.D., *Strategy Director, Lumina Foundation*

CREDENTIAL ENGINE: MOVING CREDENTIALING FORWARD

- **Scott Cheney**, *Executive Director, Credential Engine*
- **Jeanne Kitchens**, *Associate Director, Center for Workforce Development, Southern Illinois University*

CREDENTIAL ECOSYSTEM DATA MAPPING

- **Alex Jackl**, *President & CEO, Bardic Systems; PESC*
- **Jeanne Kitchens**, *Associate Director, Center for Workforce Development Southern Illinois University; Credential Engine*

DEMONSTRATIONS & PILOTS

- **AcademyOne and Credential Engine** – *David Moldoff, Founder & CEO, AcademyOne*
- **DegreeData and Credential Engine** – *Anne Valentine, President & CEO, DegreeData*
- **Parchment and Credential Engine** – *Rajeev Arora, SVP Products, Parchment*

BREAKOUT SESSIONS

- AACRAO SPEEDE Committee
- Canadian PESC User Group
- EdEXCHANGE User Group
- GEO Code User Group
- JSON Task Force
- Standards Development Forum for Education

Topics covered include: Artificial Intelligence, Blockchain, Comprehensive Learner Records, Credential Engine, Credential Ecosystem Data Mapping, Data Analytics, Distributed Ledger Technology, EdExchange, EMREX, GDPR, Indiana eTranscript, JSON Task Force, PESC GEO Code, Semantic Web Standards, U.S. National Forum for Education Statistics, Web 3.0 Technologies, Working Nation, among other topics related to academic credentialing.

The PESC Spring 2018 Data Summit | Best Practices in Education Data Systems takes place May 2 – 4, 2018 in Washington, D.C. The Program, meeting information and registration are available at www.PESC.org.

PESC IS SPONSORED ANNUALLY by Credentials Solutions, National Student Clearinghouse, Oracle, Parchment and ECE.

PESC PARTNERS include AACRAO, APEREO, ARUCC, A4L, EMREX, EWP, Groningen Declaration Network, Internet2, SHEEO, and the US Department of Education's Common Education Data Standards (CEDS) Initiative.

PESC IS A PROUD EXHIBITOR at AACRAO's Annual Meeting, ARUCC's Annual Meeting, and the Annual STATS-DC Conference of the National Center for Education Statistics (NCES) of the US Department of Education.

PESC IS A PROUD SPONSOR of AIR's Annual Conference and California Electronic Transcripts Workshop and CCCApply.

PESC IS A PROUD MEMBER/AFFILIATE/SIGNATORY of AACRAO, the NCES National Forum on Education Statistics, and the Groningen Declaration Network.

IN FULFILLING ITS NON-PROFIT MISSION, all PESC Approved Standards are available to the education community online free of charge at www.PESC.org.

ABOUT PESC

ESTABLISHED IN 1997 AT THE NATIONAL CENTER FOR HIGHER EDUCATION & HEADQUARTERED IN WASHINGTON DC, PESC is an international, 501 (c)(3) non-profit, community-based, umbrella association of data, software and education technology service providers; schools, districts, colleges and universities; college, university and state systems; local, state/province and federal government agencies; professional, commercial and non-profit organizations; and non-profit associations & foundations.

LEADING THE ESTABLISHMENT AND ADOPTION OF OPEN DATA STANDARDS ACROSS THE EDUCATION DOMAIN. Through open and transparent community participation, PESC enables cost-effective connectivity between data systems to accelerate performance and service, to simplify data access and research, and to improve data quality along the Education lifecycle. PESC envisions global interoperability within the Education domain, supported by a trustworthy, inter-connected network built by and between communities of interest in which data flows digitally and seamlessly from one community or system to another and throughout the entire eco-system when and where needed without compatibility barriers but in a safe, secure, reliable, legal, and efficient manner.

ABOUT PRIVACY While PESC promotes the implementation and usage of data exchange standards, PESC does not set (create or establish) policies related to privacy and security. Organizations and entities using PESC Approved Standards and services should ensure they comply with FERPA and all local, state, federal and international rules on privacy and security as applicable. For more information, see www.PESC.org.

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