

EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS



PROGRAM

SPRING 2017 DATA SUMMIT

WASHINGTON DC

MAY 3-5, 2017



EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS



INTRODUCTION

Student mobility combined with emerging, innovative technologies and systems continues to transform learning and academic credentialing around the world.

PESC began discussions in 2015 with its Membership and Board of Directors about this changing landscape and subsequently that year formed the *Academic Credentialing and Experiential Learning Task Force*.

This highly knowledgeable group of leaders and experts spanning education policy, practice and technology, has been meeting since to ensure that standards development efforts within PESC keep pace with the digital needs of institutions, their partners and service providers all driven by student mobility.

Since then, a number of community and industry credentialing initiatives have been established to facilitate and administer the integration of this digital transformation within the credentialing environment.

The supportive, complementary message to each initiative from PESC is that fostering collaboration across educational sectors to solve industry-shared problems brings much needed clarity and coherence to the education eco-system.

For the Spring 2017 Data Summit | *Best Practices in Education Data Systems* PESC underscores this message and elevates this need to the forefront by showcasing many of these initiatives under one common theme: *Empowering the Mobility of Digital Academic Credentials*.

The goals of the Spring 2017 Data Summit include educating and informing attendees on current initiatives and emerging best practices impacting technology & standards; and promoting innovative, collaborative solutions that employ automated, reusable and sustainable technologies in order to improve institutional performance, service delivery, and overall connectivity between stakeholders.

EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS

WELCOME

EMBASSY ROW HOTEL
2015 Massachusetts Ave NW
Washington DC 20036
855-893-1011

Data Summits

focus on access, integration and implementation of data systems; maintenance and portability of data exchange standards; open, community-driven innovation and development; mobility and overall interoperability; and other key factors that drive global education data systems development and technology.

PESC Technology

is driven by PESC serving as an incubator to pilot and launch data standards using an open, transparent and collaborative process; and serving as a data standards-setting body governing resource mapping and maintenance of education eco-system schemas, taxonomies and shared code sets.

PESC and its Membership

lead transparent, collaborative development across the education landscape. Supporting this mission are PESC partners:

AACRAO

APERED

ARUCC

EWP & EMREX

Groningen Declaration Network

SHEED

US Department of Education's CEDS Initiative

PESC Annual Sponsors

Credentials Solutions

National Student Clearinghouse

Oracle

Parchment

EMPOWERING THE MOBILITY OF
DIGITAL ACADEMIC CREDENTIALS

BOARD OF DIRECTORS



CHAIR

DOUG FALK

VP & CIO, NATIONAL STUDENT CLEARINGHOUSE

VICE CHAIR

J. JAMES WAGER

EDUCATION STRATEGIST & CONSULTANT
CREDENTIALS SOLUTIONS

TREASURER

PATRICK ELLIOTT

SENIOR ASSOCIATE REGISTRAR, UNIVERSITY OF MARYLAND
UNIVERSITY COLLEGE

SECRETARY

BRIAN ALLISON

VP ADMINISTRATION, STUDENT CONNECTIONS

RAJEEV ARORA

SENIOR VP PRODUCTS, PARCHMENT

W. MATTHEW BEMIS

ASSOCIATE REGISTRAR, UNIVERSITY OF SOUTHERN CALIFORNIA

KRISTI BLABAUM

SYSTEMS INTEGRATION ANALYST, GREAT LAKES
REPRESENTING NASLA

TUAN ANH DO

DIRECTOR OF ENROLLMENT MANAGEMENT TECHNOLOGY
SAN FRANCISCO STATE UNIVERSITY, REPRESENTING AACRAO

DAVID MOLDOFF

CEO & FOUNDER, ACADEMYONE

MICHAEL SESSA

PRESIDENT & CEO, PESCA

RICK SKEEL

DIRECTOR OF PRODUCTION MANAGEMENT, ELLUCIAN

FRANCISCO VALINES

DIRECTOR OF FINANCIAL AID, FLORIDA INTERNATIONAL UNIVERSITY

ANDY WOOD

VP HIGHER EDUCATION PRODUCT ENGINEERING, ORACLE

EMPOWERING THE MOBILITY OF
DIGITAL ACADEMIC CREDENTIALS

PROGRAM COMMITTEE



JEFFREY ALDERSON
PRINCIPAL ANALYST
ENTERPRISE SOFTWARE
EDUVENTURES

HELEN CHEN, PH.D.
DESIGNING EDUCATION LAB
DEPARTMENT OF MECHANICAL ENGINEERING
OFFICE OF THE REGISTRAR
STUDENT AND ACADEMIC SERVICES
STANFORD UNIVERSITY

JOHN ITTELSON, PH.D.
PROFESSOR EMERITUS
SCHOOL OF COMPUTING AND DESIGN
CALIFORNIA STATE UNIVERSITY MONTEREY BAY

ALEX JACKL
CEO & PRESIDENT
BARDIC SYSTEMS

JAMES KELLY
SENIOR DIRECTOR OF TECHNOLOGY
EDUCATIONAL CREDENTIAL EVALUATORS

MONTEREY SIMS
DIRECTOR OF ADMISSIONS & EVALUATION
UNIVERSITY OF PHOENIX

EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS

PROGRAM AT A GLANCE

| | Wednesday May 3, 2017 | Thursday May 4, 2017 | Friday May 5, 2017 |
|-------------------|---|--|---|
| 8:30am – 10:00am | ADMIRAL AB ROOM Admission/Registrar | ADMIRAL AB ROOM Policy/Research | DIPLOMAT ROOM Global Institution Code ADMIRAL AB ROOM JSON Task Force Launch |
| 10:00am – 10:30am | BREAK | BREAK | BREAK |
| 10:30am – Noon | Admission/Registrar | Marketplace | ADMIRAL AB ROOM Forum on Gender & Student Identity in Education Data Systems |
| Noon – 1:30pm | LUNCH - AWARDS | LUNCH – BEST PRACTICES | ADJOURN |
| 1:30pm – 3:00pm | International | ADMIRAL AB ROOM Academic Credentialing & Experiential Learning | |
| 3:00pm – 3:30pm | BREAK | EAST ROOM EdExchange | |
| 3:30pm – 5:00pm | Systems/Technology | WEST ROOM Change Control Board, Technical Advisory Board, Steering Committee | |
| 6:00pm – 7:00pm | SPRING RECEPTION | PESC MEMBER MEETING | |

Digital Academic Credentials spans 1 ½ days starting 8:30am on Wednesday May 3, 2017 and concludes with lunch at noon on Thursday May 4, 2017. All other events, meetings, and activities conducted at the Summit are open to all registered attendees.

EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS

WEDNESDAY MAY 3, 2017

7:30 AM – 9:00AM **CONTINENTAL BREAKFAST**

7:30 AM – 5:00PM **REGISTRATION**

8:30 AM – 8:45 AM **WELCOME**

MICHAEL SESSA, PRESIDENT & CEO, PESC

ADMISSIONS AND REGISTRAR

Long gone are the days of the ‘traditional student.’ According to recent data reported by AASCU, “As few as 16% of college students...” are traditional¹. If when students access higher education has dramatically and overwhelmingly shifted, so too has the why, the how, and the what students are looking to achieve through an education.

Transcript data, for the most part, has supported the needs of students and institutions. Many worked hard to continue to ensure those needs were being met by advancing transcript technology from EDI, to XML and even PDF, all PESC Approved Standards being used widely across the USA and Canada. Transcripts and transcript data will continue to be needed and play a vital role in the lifecycle of a student.

Transcript data does not, however, portray the holistic view or profile of the student and the student’s skills, knowledge and abilities. Capturing this holistic view in an interoperable, portable, and digital form requires collaboration across educational sectors and across industries.

Underlying this collaboration is the realization that the higher education lifecycle, and learning itself, is expanding into a lifelong lifecycle. There may never be another traditional student. How do institutions meet needs that seem to be ever changing?

¹Defined as individuals between the ages of 18-22 who received parental financial support and lived on campus: *What Does “Traditional Student” Even Mean in America Today?*

8:45 AM – 9:30 AM

MODERATOR: **DOUG FALK**, VP & CIO, NATIONAL STUDENT CLEARINGHOUSE

SPEAKER: **MICHAEL REILLY**, EXECUTIVE DIRECTOR, AACRAO

9:30 AM – 10:15 AM

MODERATOR: **MONTEREY SIMS**, DIRECTOR OF ADMISSIONS AND EVALUATION, UNIVERSITY OF PHOENIX

PANELISTS: **PAUL ROBINSON**, ASSOCIATE VICE PROVOST AND UNIVERSITY REGISTRAR, UNIVERSITY OF MICHIGAN - ANN ARBOR
DAVID SHIPPEN, DIRECTOR, STATEWIDE PROGRAMS - STUDENT SERVICES, CALIFORNIA COMMUNITY COLLEGES

10:15 AM – 10:45 AM **BREAK**

EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS

10:45 AM – 12:00 PM

MODERATOR: **W. MATTHEW BEMIS**, ASSOCIATE REGISTRAR, UNIVERSITY OF SOUTHERN CALIFORNIA

PANELISTS: **INSIYA BREAM**, ASSISTANT VICE PROVOST, REGISTRAR STRATEGIC OPERATIONS, UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE
THOMAS BLACK, ASSOCIATE VICE PROVOST FOR STUDENT AFFAIRS AND UNIVERSITY REGISTRAR, STANFORD UNIVERSITY

12:00 PM – 1:30 PM

LUNCH

PESC AWARDS CEREMONY

BOARD OF DIRECTORS

BEST PRACTICES

SPECIAL RECOGNITION

INTERNATIONAL

For students traveling internationally for their education, a myriad of new challenges are presented. Most prominent is the need to communicate or translate from one language to another. Without a standard language or guidelines for a common, shared vocabulary, simple translation can become labor intensive, costly and prone to errors.

While credential evaluation is a fundamental and essential piece of the process, the lack of common data standards and technical protocols can lead to confusion and delays in delivery and exchange of data.

These factors all contribute to significant risk of fraud and abuse. Unfortunate consequences of poor data quality exacerbate the process, not to mention legal and monetary penalties that may also ensue.

Under the Groningen Declaration Network, stakeholders in credential evaluation have been organizing and collaborating to improve this process. The main question remains on how to organize a global effort to address these concerns and build a long-term process that will endure as the number of students traveling internationally for education increases exponentially each year.

1:30 PM – 3:00 PM

MODERATOR: **MICHAEL SESSA**, CHAIR VISION TASK FORCE, GRONINGEN DECLARATION NETWORK

PANELISTS: **DAVID MOLDOFF**, CEO & FOUNDER, ACADEMYONE
JAMES KELLY, SENIOR DIRECTOR OF TECHNOLOGY, ECE

3:00 PM – 3:30 PM

BREAK

EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS

SYSTEMS AND TECHNOLOGY

New technologies have enabled creativity and innovation in academic credentialing. While the need to improve the portability of data and credentials is commonly agreed upon, mobility also raises the priority and need to authenticate and validate credentials.

Enterprise-wide initiatives provide comprehensive solutions for all stakeholders and many are beginning to firmly establish themselves. Yet a major gap exists in capturing skills, knowledge and abilities leaving many to piece together processes to meet student demands.

In what seems like an ever-changing environment, the challenge for systems and technology is what to build or develop, how development should be conducted and when products and/or services are needed.

A close relationship is necessary between institutions, technology and systems providers, students and labor and workforce sectors. Open, transparent collaboration is the key to success in order to maximize the value of technology and systems. The main question in this sector revolves around the availability of 'off the shelf' solutions, how interoperable they are, and their integration into the existing processes.

3:30 PM – 5:00 PM

MODERATOR: **RICK SKEEL**, DIRECTOR OF PRODUCT MANAGEMENT, ELLUCIAN

PANELISTS: **GREGORY NADEAU**, MANAGER, PCG EDUCATION
JOEL HERNANDEZ, CEO, eLUMEN

6:00 PM – 7:00 PM

ANNUAL SPRING RECEPTION

THURSDAY MAY 4, 2017

7:30 AM – 9:00AM

CONTINENTAL BREAKFAST

7:30 AM – 5:00PM

REGISTRATION

POLICY AND RESEARCH

Stakeholders in policy and research are tackling many vast and intricate issues related to credentialing. Why students look to educate themselves and more prominently, how and when they do look to education has vastly changed over the years.

All stakeholders, including state, provincial and government agencies, are tracking and analyzing changing student behaviors. New concepts like micro credentials, badges and even loan and grant models are undergoing re-evaluation and experimentation.

The main questions here include what policy and research is most important? If the traditional student model is obsolete, what factors are driving a new model?

EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS

8:30 AM – 9:45 AM

MODERATOR: **J. JAMES WAGER**, STRATEGIST AND EDUCATION CONSULTANT, CREDENTIALS SOLUTIONS

PANELISTS: **DOUGLAS SHAPIRO**, PH.D., EXECUTIVE RESEARCH DIRECTOR, NATIONAL STUDENT CLEARINGHOUSE RESEARCH CENTER
JOELLEN SHENDY, ASSOCIATE VICE PROVOST & REGISTRAR AT UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE
RAJEEV ARORA, SENIOR VICE PRESIDENT OF PRODUCTS, PARCHMENT

9:45 AM – 10:15 AM **BREAK**

MARKETPLACE SUPPLY AND DEMAND

Unlike prior initiatives, which generally developed from an idea to a paper process, mobility requires digital data and electronic communications. Many stakeholders across the spectrum from institutions and students to evaluators and employers will touch the same credential.

With this broad usage of credentials, new credentialing models need to satisfy all stakeholders. Underscoring these factors is the morphing of perspectives and disposition to a ‘student-centric’ model.

Students can now better match what they need to learn with what they hope to achieve, whether it be after education or for a career. Many labor sectors have significant deficits in filling jobs and many overinflate the job requirements to ensure applicants have the skills, knowledge and abilities needed.

Now more than ever, all stakeholders must understand the need to operate in a global eco-system in which all the stakeholders play a vital and important role. The major challenge here is how to manage and encourage credentials that are needed in this eco-system to ensure steady and consistent supply and demand.

MODERATOR: **ALEX JACKL**, CEO AND PRESIDENT, BARDIC SYSTEMS

10:15 AM – 10:45 PM

CONNECTING CREDENTIALS

PANELISTS: **EVELYN GANZGLASS**, CO-DIRECTOR, CONNECTING CREDENTIALS
KATHLEEN DELASKI, FOUNDER & PRESIDENT, EDUCATION DESIGN LAB

10:45 AM – 11:15 PM

CREDENTIAL ENGINE

PANELISTS: **ROBERT SHEETS**, PH.D., RESEARCH PROFESSOR, INSTITUTE OF PUBLIC POLICY, GEORGE WASHINGTON UNIVERSITY; CREDENTIAL ENGINE INTERIM MANAGEMENT TEAM
JEANNE THERESE KITCHENS, ASSOCIATE DIRECTOR, CENTER FOR WORKFORCE DEVELOPMENT, SOUTHERN ILLINOIS UNIVERSITY CARBONDALE

EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS

11:15 AM – 11:45 PM

NICE - NIST

PANELIST: **RODNEY PETERSEN**, DIRECTOR OF NATIONAL INITIATIVE FOR CYBERSECURITY EDUCATION (NICE), NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST), US DEPARTMENT OF COMMERCE

12:00 PM – 1:30 PM

LUNCH

18TH ANNUAL BEST PRACTICES COMPETITION

EXTENDING THE CAPACITY OF HIGHER EDUCATION TO SCALE THE OUTPUT OF VERIFIED WORKFORCE-READY GRADUATES

PETER MEEHAN, HEAD OF INTERNATIONAL PARTNERSHIPS, iQ4

SUMMIT SESSIONS

THURSDAY MAY 4, 2017

8:30 AM – Noon

- **AACRAO SPEEDE COMMITTEE**

1:30 PM – 5:00 PM

- **ACADEMIC CREDENTIALING & EXPERIENTIAL LEARNING**
- **EDEXCHANGE**
- **CHANGE CONTROL BOARD, TECHNICAL ADVISORY BOARD, SC**

FRIDAY MAY 5, 2017

8:30 AM – 10:00 AM

- **GLOBAL INSTITUTION CODE**
- **JSON TASK FORCE LAUNCH**

10:30 AM – Noon

- **FORUM DISCUSSION ON GENDER & STUDENT IDENTITY IN EDUCATION DATA SYSTEMS**

EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS

P E S C M E M B E R S

AACRAO – American Association of Collegiate Registrars
& Admissions Officers

ACADEMYONE

ACCENTURE

ACCESS4LEARNING

ACE – American Council on Education

ACT

APPLYALBERTA

ARIZONA STATE UNIVERSITY

BARDIC SYSTEMS

BROWN UNIVERSITY

CALIFORNIA COMMUNITY COLLEGE SYSTEM

CALIFORNIA STATE UNIVERSITY SYSTEM

CAPELLA UNIVERSITY

CENTRAL CONNECTICUT STATE UNIVERSITY

COLLEGE BOARD

COLLEGENET

COMMON APPLICATION

COMMUNITY COLLEGE OF THE AIR FORCE

COSUMNES RIVER COLLEGE

CREDENTIALS SOLUTIONS

DECISIONDESK

DIGITARY

ECE – Educational Credential Evaluators

EDUVENTURES

ELLUCIAN

ELM RESOURCES

ELON UNIVERSITY

EMORY UNIVERSITY

FEDERATION OF STATE MEDICAL BOARDS

FLORIDA INTERNATIONAL UNIVERSITY

GEORGETOWN UNIVERSITY

GRONINGEN DECLARATION NETWORK

IERF – International Education Research Foundation

INDIANA STATE UNIVERSITY

JENZABAR

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

MICHIGAN STATE UNIVERSITY

NASLA – National Association of Student Loan
Administrators

NATIONAL STUDENT CLEARINGHOUSE

OCAS – Ontario College Application Service

ORACLE

OUAC – Ontario Universities' Application Centre

PARADIGM

PARCHMENT

PURDUE UNIVERSITY

SIMON FRASER UNIVERSITY

SMART CATALOG

SMARTER BALANCED ASSESSMENT CONSORTIUM

SOUTHERN CONNECTICUT STATE UNIVERSITY

STANFORD UNIVERSITY

ST. EDWARDS UNIVERSITY

Student Connections

UNIVERSITY OF ARIZONA

UNIVERSITY OF BRITISH COLUMBIA

UNIVERSITY OF CALIFORNIA AT BERKELEY

UNIVERSITY OF COLORADO BOULDER

UNIVERSITY OF DENVER

UNIVERSITY OF IDAHO

UNIVERSITY OF LETHBRIDGE

UNIVERSITY OF LOUISIANA AT LAFAYETTE

UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE

UNIVERSITY OF MICHIGAN

UNIVERSITY OF MISSISSIPPI

UNIVERSITY OF MISSOURI SYSTEM

UNIVERSITY OF NORTHERN IOWA

UNIVERSITY OF OREGON

UNIVERSITY OF PHOENIX

UNIVERSITY OF PUERTO RICO SYSTEM

UNIVERSITY OF SOUTHERN CALIFORNIA

UNIVERSITY OF SOUTH FLORIDA

UNIVERSITY OF TEXAS AT AUSTIN

UNIVERSITY OF VIRGINIA

UNIVERSITY OF WISCONSIN AT MADISON

WASHINGTON STATE UNIVERSITY

WESTERN GOVERNORS UNIVERSITY

WORKDAY

EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS

PESC APPROVED STANDARDS



| | | | |
|---------------------------|---------------------------|-----------------------------------|----------------------|
| ACADEMIC ePORTFOLIO | ADMISSIONS APPLICATION | COLLEGE TRANSCRIPT | COMMON CREDENTIAL |
| COURSE INVENTORY | EDI | EDUCATION TEST SCORE REPORTING | FINANCIAL AID |
| HIGH SCHOOL TRANSCRIPT | IPEDS | NSLDS | PDF ATTACHMENT |

- **PESC APPROVED STANDARDS** are available free of charge to the education community, a cornerstone principle of the PESC Membership and Mission.
- **PESC APPROVED STANDARDS** are developed, approved and maintained through an open, transparent and community-based collaborative process, which includes a public comment period for newly developed and proposed standards, all governed by PESC Members.
- **PESC APPROVED STANDARDS** support a business process or transaction and each can be implemented or used one independently from another.
- **PESC APPROVED STANDARDS**, dependent on when developed and released, are each based on a specific version of the Academic Record Sector, on a specific version of Core Main Components, and on PESC's XML Technical Specification.

EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS



WHO WE ARE

Established in 1997 at the National Center for Higher Education and headquartered in Washington, D.C., 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/provincial systems; local, state/province and federal government agencies; professional, commercial and non-profit organizations; and non-profit associations & foundations.

OUR MISSION

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.

OUR VISION

PESC envisions global interoperability with 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.

EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS

P E S C G R O U P S

ACADEMIC CREDENTIALING & EXPERIENTIAL LEARNING

- While policy leaders continue to drive and facilitate the transformation of credentialing, this task force is monitoring this transformation and community progress in order to prepare PESC for any new standards as well as any extensions or additions that might be needed to existing PESC Approved Standards.

GLOBAL INSTITUTION CODE

- The Global Institution Code workgroup looks to establish a standardized methodology in order to develop a global directory service of institution codes.

STANDARDS DEVELOPMENT FORUM

- The Forum, governed by a Steering Committee, oversees and houses all XML development efforts and workgroups and is comprised of PESC members appointed by the Board of Directors.

CANADIAN PESC USER GROUP

- CanPESC looks to ensure that all PESC development and deliverables support and incorporate Canadian-based stakeholder interests; encourages participation in PESC development efforts and groups; and promotes and educates Canadian stakeholders on the importance of data standards and global interoperability.

EDEXCHANGE USER GROUP

- EdExchange looks to establish a data exchange platform enabling the electronic exchange of standards-based data and digital documents. Achieved through an open web services architecture and associated standards, EdExchange is designed as a peer-to-peer network providing a secure, reliable and direct connection between institutions avoiding file-based technologies.

EDUCATION RECORD USER GROUP

- ERUG governs all admissions and registrar-based PESC Approved Standards including XML, EDI and PDF; works closely to guide all agreed-upon changes through the CCB and TAB; and is comprised of PESC members appointed by the Board of Directors.

CHANGE CONTROL BOARD

- The CCB governs the establishment and management of data elements, core components, taxonomies, schemas and code sets; authorizes all changes and updates to any and all PESC Approved Standards; and is comprised of PESC members appointed by the Board of Directors.

SEAL OF APPROVAL BOARD

- The SAB governs the voluntary program offered for implementers of PESC Approved Standards to indicate a uniform level of implementation according to the original intent and spirit of development efforts. The SAB follows a formal process governed by specific policies and procedures, and is comprised of PESC members appointed by the Board of Directors.

TECHNICAL ADVISORY BOARD

- The TAB is responsible for updating and maintain all PESC technical specifications; for providing guidance and research on technical and architectural issues related to standards development in various technologies; and is comprised of PESC members appointed by the Board of Directors.

EMPOWERING THE MOBILITY OF
DIGITAL ACADEMIC CREDENTIALS

PESC SPONSORS

ANNUAL DIAMOND SPONSORS



ORACLE®



Connecting Credentials

BUILDING LEARNING-BASED CREDENTIALING SYSTEMS

PESC PARTNERS

AACRAO

APERED

ARUCC

EWP & EMREX

GRONINGEN DECLARATION NETWORK

SHEED

US DEPARTMENT OF EDUCATION'S CEDS

EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS

BEST PRACTICES AWARDS

The Annual Best Practices Competition is held by PESC to highlight and promote innovation and ingenuity in the application and implementation of interoperable data standards for business needs. First held in 1999, the Competition is open to institutions, associations, organizations, government agencies and departments, districts, consortia, non-profit and commercial service providers and other education stakeholders that have collaborated to design and/or adopt an electronic standardization initiative via a specific implementation, and/or other medium such as, but not limited to, published articles and white papers. Submissions may include descriptions of the scope of a project, participants, type of standards employed, relevant dates of project milestones, copies of articles, outline of mission/objectives and any related statistics (number of transactions transmitted, estimated cost savings, etc.).



EMPOWERING THE MOBILITY OF DIGITAL ACADEMIC CREDENTIALS

PESC AND THE TRANSFORMATION OF ACADEMIC CREDENTIALING

In June 2015 at its annual planning retreat, the PESC Board of Directors, due to the impact of student mobility on the international credentialing landscape, authorized the formation of the Academic Credentialing and Experiential Learning Task Force.

This Task Force formed and convened for its inaugural meeting at PESC's Fall 2015 Data Summit in Washington, D.C. With Tom Black, Associate Vice Provost for Student Affairs & University Registrar at Stanford University, as Task Force Chair, and Co-Chairs Joellen Shendy, Associate Vice Provost and Registrar at the University of Maryland University College and Alex Jackl, CEO and Founder of Bardic Systems, the Task Force committed to monitoring and tracking current initiatives, providing speakers and presenters at several industry-leading conferences and events, serving as a clearinghouse for information, and ensuring PESC is prepared for standards development work as the community is reaching the point in which standards are needed.

Through analysis and discussion, Chair Tom Black identified an associated gap in the North American market whereby no standards existed for the exchange of certificates, degrees and diplomas. Work began immediately to shape a standard and evolved into the PESC Approved *XML Common Credential for Certificates, Degrees and Diplomas*. The Task Force continues to convene and focus on new and specific use cases (business or process cases) to determine their value and need in the community while leveraging technology and standards to meet the needs of emerging mobile academic credentials.

In June 2016 at its next annual planning retreat, the PESC Board of Directors discussed the numerous industry groups and initiatives focusing on credentials. In-depth discussions lead to the realization that a significant part of community needs are not be addressed in that no organization is showcasing how to work with all the different groups and initiatives, and more importantly how the different groups and initiatives all relate to one another.

With that in mind, the PESC Board of Directors subsequently authorized the dedication of PESC's Spring 2017 Data Summit to this one theme and purpose – *Empowering the Mobility of Digital Academic Credentials*. As PESC is a sponsor of Connecting Credentials, leaders at Connecting Credentials correspondingly co-sponsored the Spring 2017 Data Summit.

In the spirit of interoperability, leaders of Credential Engine proposed a comprehensive data mapping initiative across Credential Engine, PESC, HR-Open Standards, and IMS in order to advance interoperability; and with immediate agreement by all, organizational meetings began in April 2017. As part of this initiative, PESC and HR-Open Standards are expected to sign a joint MOU.

At the same time, PESC as corresponding Partners with Erasmus Without Paper and EMREX, is participating in additional data mapping initiatives and topics include data transmission and exchange.