

PROGRAM

SPRING 2018 DATA SUMMIT

*Best Practices in
Education Data Systems*



MULTIPLE STAKEHOLDERS. ONE VISION.

i♥data

BECOME A DATA ADVOCATE

Message brought to you by

Postsecondary Electronic Standards Council, maker of standards.



#CollegeandCareer

www.PESC.org



CONNECTING COLLEGE & CAREER

PESC is the voice for the trusted, efficient and secure real-time exchange of education data from initial access of the student from high school into the college environment, through successful completion of the education experience and into the workforce; and for all learners accessing an education environment.

Transparent, open collaboration is our cornerstone principle. The sharing of ideas and best practices reminds us that while we work in a competitive environment, as stakeholders we must also cooperate and work together for a greater common good. That greater common good is ensuring student and learner achievement and progression along the entire cycle of lifelong learning and fostering a successful learning experience.

PESC is driving the collaborative development and alignment of data across disparate systems, across sectors and is eliminating barriers that inflate costs for institutions, students, states, provinces and taxpayers.

PESC envisions a seamless, interoperable environment that enables students and learners to successfully progress and smoothly transition throughout the entire education and learning ecosystem. The goal of efficient, automated interoperability is achievable. We have the ability, we've identified what needs to be done, and we know how to do it.

JOIN THE COMMUNITY.

JOIN THE EFFORT.

JOIN PESC.



UNLOCK THE MOBILITY OF EDUCATION DATA WITH PESC APPROVED STANDARDS

WWW.PESC.ORG



A voluntary, consensus-based standards platform is the foundation on which PESC operates.

Through PESC every stakeholder along the education lifecycle is empowered. Combined with an agreement of 'co-opetition' – that is *cooperation among competitors* – PESC Members identify, develop, openly share and promote collaborative data solutions that employ automated, reusable and sustainable technologies in order to improve institutional performance, to improve student service delivery, and improve overall digital and electronic connectivity between stakeholders.

The Spring 2018 Data Summit focuses on **Best Practices**, providing encouragement and a neutral, trusted environment in which knowledge, wisdom and experience can be shared and communicated.

Data standards are the tools PESC produces to enable interoperability in education.

Standards make the world go 'round. PESC Members make standards free and open. Together, with this unique, trusted community perspective, PESC has mapped out a common, strategic path for the future. This path includes continued development of common data standards, establishment and support of data networks and infrastructure, common authentication and web services protocols enterprise-wide, seamless connections bridging postsecondary education systems to secondary and labor and workforce systems.

The political will and demand for improvement have never been greater and will continue to increase with time as budgets tighten, new technologies emerge and common trusted, and proven solutions like standardization are being viewed as wise, cost-saving investments.

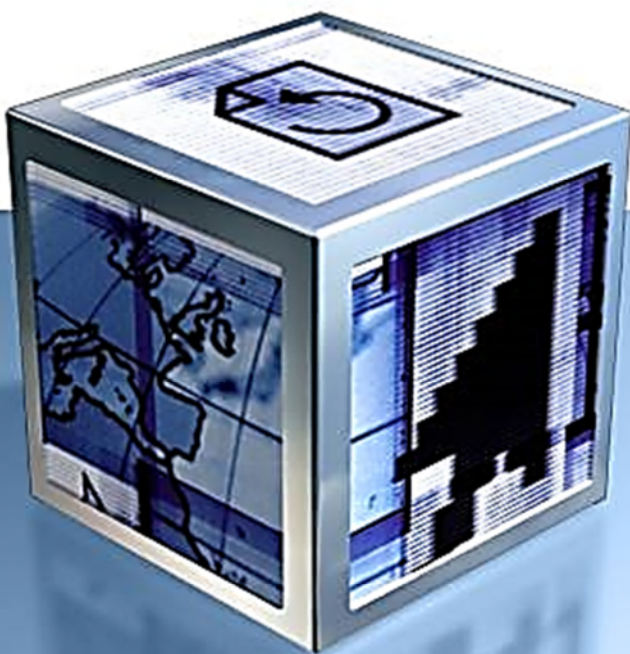
With membership and participation from all leading stakeholders in education technology, PESC serves as the umbrella organization to coordinate and advocate for learner-centric data standardization and interoperability across the education lifecycle.

PESC Members boldly accept that mission and work diligently to continue the proven record of success and achievement. At the Spring 2018 Data Summit, we now elevate the mission to the next level.

Thank you for your continued support of PESC!

A handwritten signature in blue ink, reading "Michael D. Sessa".

Michael D. Sessa, PESC President & CEO





BEST PRACTICES 2018 WINNER



WELCOME

This year PESC builds upon the knowledge and experience shared and garnered at the past several Data Summits. In the Fall of 2016 in San Diego, PESC resources combined to produce the *Common Credential for Certificates, Degrees and Diplomas* in record time.

For Spring of 2017 in DC, PESC looked externally in producing *Empowering the Mobility of Digital Academic Credentials*, showcasing external projects, resources and speakers and exemplifying the value and need for engagement of all stakeholders in the ecosystem.

Fall 2017 took PESC to Toronto for its 20th Year Anniversary to invigorate global mobility and collaboration across Canada, one of the largest users of all PESC Approved Standards.

At the Spring 2018 Data Summit, PESC prepares for the next big jump in technology. The emergence of JSON and of the employment and training sectors as users, on the demand-side of a supply-demand model, are provoking innovation and collaboration like never before.

Innovation and collaboration result in common solutions, and at the Spring 2018 PESC highlights these solutions, convenes the thought-leaders and experts and maximizes the power of convening in-person.

Thank you for attending the Spring 2018 Data Summit. We wish you an enjoyable experience, thank you for your continued support of PESC and thank our Annual Diamond Sponsors for helping make the Data Summits possible.

Credentials Solutions

National Student Clearinghouse

Oracle

Parchment



PESC & CANADA

The Canadian presence and influence within PESC has existed since the very formation of PESC. As Canadian students cross provincial and international borders to attain their education, the need for institutions, software providers and systems vendors that support Canadian and international markets to ensure mobility and interoperability, has never been greater.

The formation of the Canadian PESC User Group (CanPESC) in 2011 solidified the importance of Canada's role within PESC and drew together many Canadians from across the country to work towards a common goal. Its main mission is twofold:

- To encourage participation in PESC XML workgroups developing PESC Approved Standards
- To promote and educate Canadian stakeholders on the importance of data standards and interoperability, thereby avoiding duplication of efforts, costs and of data standards.

As the voice and official committee representing Canadian interests, CanPESC also serves in a liaison role. It coordinates and communicates its efforts across all provinces and territories, and works closely with Canadian organizations such as the Association of Registrars of Universities and Colleges of Canada (ARUCC).

- In PESC's 1st Annual Best Practices Competition in 1999, the Ontario Universities' Application Centre (OUAC) won 1st PLACE for its submission, "Ontario Universities' Electronic Transcript System (OUETS): A Model of an Electronic Standardization Initiative."
- In PESC's 14th Annual Best Practices Competition in 2012, the Ontario College Application Service (OCAS) won 1st PLACE for its submission, "OCAS XML Transcript Initiative."
- For PESC's 10th Year Anniversary, the PESC Fall 2007 Data Summit was held at the Ritz-Carlton Hotel in Montreal.
- At the PESC Fall 2011 Data Summit held October 26, 2011 in San Francisco, PESC launched the Canadian PESC User Group.
- For PESC's 15th Anniversary Year, the PESC Fall 2012 Data Summit was held at the Four Seasons Hotel in Vancouver.
- Through establishment of CanPESC, PESC entered into a formal MOU with ARUCC in 2013, allowing ARUCC and PESC to attend each other's events without charge, thereby fostering a closer working relationship.
- OUAC staff have been recognized with PESC's Distinguished Service Award: Doug Holmes in 2013 and Leisa Wellsman in 2016.

PESC & ACADEMIC CREDENTIALING

In June 2015 at its Annual 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, 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 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*. With a partnership with PESC, Connecting Credentials correspondingly joined the Spring 2017 Data Summit as Co-Sponsor.

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 signed a joint MOU in August 2017. PESC is corresponding partners with EWP and EMREX, and is undertaking additional data mapping exercises including data transmission and exchange.



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JOIN THE COMMUNITY.**

JOIN PESC.

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SPRING 2018 DATA SUMMIT

PROGRAM AT-A-GLANCE

	Wednesday MAY 2, 2018		Thursday MAY 3, 2018			Friday MAY 4, 2018		
7.30am–5.00pm	REGISTRATION							
7.30am–9.00am	CONTINENTAL BREAKFAST							
7.30am–8.15am	FIRST TIME ATTENDEE							
8.30am–10.15am	Welcome & Introductions	Michael Sessa <i>President & CEO, PESC</i>	Vision of a Working Nation	Jane Oates <i>Executive Committee Working Nation</i>		AACRAO SPEEDE	ED EXCHANGE USER GROUP	Credential Ecosystem Data Mapping
	TBD							
	Introducing EMREX	Geir Magne Vangen <i>Head of Systems Dev. University of Oslo</i>	Lumina Foundation	Amber Garrison Duncan, Ph.D. <i>Strategy Director Lumina Foundation</i>				
10.15am–10.45am	BREAK							
10.45am–Noon	General Data Protection Regulation GDPR	Mary Chapin <i>Chief Legal Officer National Student Clearinghouse</i> Melanie Gottlieb <i>Deputy Director AACRAO</i>	Credential Engine	Scott Cheney <i>Executive Director Credential Engine</i> Jeanne Kitchens <i>Associate Director, Center for Workforce Development, Southern Illinois University</i>		GEO CODE USER GROUP	STANDARDS FORUM For EDUCATION	Credential Ecosystem Data Mapping
	Model of a Digital State: Indiana & eTranscript	Ken Sauer, Ph.D. <i>Senior Associate Commissioner & Chief Academic Officer, ICHE</i>						
Noon–1.30pm	LUNCH							
1.30pm–3.00pm	Integrating Comprehensive Learner Records	Mike Reilly <i>Executive Director AACRAO</i>	Credential Ecosystem Data Mapping	Jeanne Kitchens <i>Credential Engine</i> Alex Jackl <i>PESC</i>				
	US National Forum on Education Statistics	Levette Williams <i>Past Chair & Member, National Forum on Education Statistics</i>	AcademyOne and Credential Engine	DegreeData and Credential Engine	Parchment and Credential Engine			
3.00pm–3.30pm	BREAK							
3.30pm–5.00pm	Exploring the Potential of Web 3.0 Technologies to Improve the Talent Marketplace	Matt Gee <i>Co-Founder & CEO, BrightHive; Senior Researcher, University of Chicago</i> Robert Sheets, Ph.D. <i>George Washington University IPP</i> Jason Tyszko, <i>Executive Director Center for Education and Workforce, U.S. Chamber of Commerce Foundation</i>	JSON TASK FORCE	ED EXCHANGE USER GROUP	CANADIAN PESC USER GROUP			
5.30pm–6.00pm			PESC MEMBER MEETING					
6.00pm–7.00pm	ANNUAL SPRING RECEPTION							

PROGRAM

WEDNESDAY MAY 2, 2018

7.30am – 5.00pm	REGISTRATION
7.30am – 9.00am	CONTINENTAL BREAKFAST
7.30am – 8.15am	FIRST TIME ATTENDEE SESSION AND INTRODUCTION TO PESC
8.30am – 8.45am	WELCOME & INTRODUCTIONS Michael Sessa PESC President & CEO
8.45am – 9.30am	TBD <i>Moderator</i> Doug Falk CIO & VP National Student Clearinghouse
9.30am – 10.15am	INTRODUCING EMREX Geir Magne Vangen Head of Systems Development University of Oslo – CERES <i>Moderator</i> James Kelly Senior Director of Technology Educational Credential Evaluators EMREX, a reciprocal partner with PESC, is the solution for electronic transfer of student records between higher education institutions in Europe. The biggest benefit of EMREX is the increased availability, quality and reliability of information about student records of achievement information. Students initiate the process and can use it in several ways: by mobile students who wants a fast, secure and digital transfer of their achievement records from abroad; by students applying for education in other countries; by students who wants to share their achievement records with others – future potential employers etc.. With participating partner countries Denmark, Finland, Italy, Norway, Poland and Sweden and a newly formed User Group to govern EMREX, plans are well underway to roll out EMREX across the continent.
10.15am – 10.45am	BREAK
10.45am – 11.30am	GENERAL DATA PROTECTION REGULATION – GDPR PANEL Mary Chapin Chief Legal Officer National Student Clearinghouse

Melanie Gottlieb
Deputy Director
AACRAO – American Association of Collegiate Registrars & Admissions Officers

Moderator
Rick Skeel
Director of Product Management
Ellucian

The European Union (EU) General Data Protection Regulation (GDPR) replaces the Data Protection Directive 95/46/EC and was designed to harmonize data privacy laws across Europe, to protect and empower all EU citizens' data privacy and to reshape the way organizations across the region approach data privacy. The GDPR not only applies to organizations located within the EU but it also applies to organizations located outside of the EU if they offer goods or services to, or monitor the behavior of, EU data subjects. It applies to all companies processing and holding the personal data of data subjects residing in the European Union, regardless of the company's location.

11.30am – Noon

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

Ken Sauer, Ph.D.
Senior Associate Commissioner & Chief Academic Officer
Indiana Commission for Higher Education

Moderator
Rajeev Arora
SVP Products
Parchment

The Indiana e-Transcript Initiative was developed in 2005 as a partnership between the Indiana Commission for Higher Education (ICHE) and the Indiana Department of Education (IDOE). Indiana was the first state in the Midwest to adopt e-Transcript and now at least six other states have followed their lead. HEA 1341, passed by the 2013 Indiana General Assembly, establishes the e-Transcript Initiative by statute and calls for a common high school transcript to be developed by the IDOE in collaboration with ICHE. The service is made possible by an appropriation from the General Assembly, ensuring 24/7 online service and benefits for students, colleges and universities, high schools, and the State of Indiana. Now with a state-wide collaboration, ICHE is looking to link to the benefits of Credential Engine. As one of the first states implementing a pilot, ICHE continues to lead the march toward a digital state.

Noon – 1.30pm

LUNCH

1.30pm - 2.15pm

INNOVATING DATA INTEGRATION WITH COMPREHENSIVE LEARNER RECORDS

Mike Reilly
Executive Director
AACRAO – American Association of Collegiate Registrars & Admissions Officers

Moderator
Carroll Brown
Senior Director, Campus Solutions Product Development, Higher Education
Applications Development, Oracle

With a renewed grant from the Lumina Foundation and in partnership with NASPA, AACRAO will lead and assist the development of new comprehensive learner records in as many as 150 institutions over the next 18 months. Institutions, utilizing new technology, data standards, a readiness toolkit and supporting resources, can create digital records accessible by institutions and students beyond the traditional transcript. By capturing and documenting information on learning outcomes or competencies, the comprehensive learner record validates all learning, wherever it occurs, providing a more holistic view of learners, their achievements, what they know and how their knowledge and skills can be applied in a real-world environment.

2.15pm – 3.00pm

US NATIONAL FORUM ON EDUCATION STATISTICS

Levette Williams

Past Chair and Member

National Forum on Education Statistics

Moderator

David Moldoff

Founder & CEO

AcademyOne

The U.S. Hawkins-Stafford Education Improvement Amendments of 1988 established the National Cooperative Education Statistics System to "produce and maintain, with the cooperation of the States, comparable and uniform education statistics." To assist in meeting this goal, the U.S. National Center for Education Statistics (NCES) of the U.S. Department of Education created the National Forum on Education Statistics (the Forum). THE FORUM strives to provide states, districts & schools with helpful advice on the collection, maintenance & use of elementary and secondary education data. To this end, Forum members—a diverse group of representatives from state and local education agencies (appointed by their state's superintendent), the federal government, and other organizations with an interest in education data—work collaboratively to address problems, develop resources, identify best practices & consider new approaches to improving data collection and utility, all while remaining sensitive to privacy concerns & administrative burden. Many of these best practice resources will be discussed and shared.

3.00pm – 3.30pm

BREAK

3.30pm – 5.00pm

EXPLORING THE POTENTIAL OF WEB 3.0 TECHNOLOGIES TO IMPROVE THE TALENT MARKETPLACE

Matt Gee

Co-Founder & CEO, BrightHive

Senior Researcher, University of Chicago

Robert Sheets, Ph.D.

Research Professor

George Washington University, Institute for Public Policy

Jason Tyszko

Executive Director

Center for Education and Workforce

U.S. Chamber of Commerce Foundation

Moderator
Anne Valentine
President & CEO
DegreeData

6.00pm – 7.00pm

ANNUAL SPRING RECEPTION

THURSDAY MAY 3, 2018

7.30am – 5.00pm REGISTRATION

7.30am – 9.00am CONTINENTAL BREAKFAST

8.30am – 9.30am **VISION FOR A WORKING NATION**

Jane Oates
Executive Committee
Working Nation

Moderator
W. Matthew Bemis
Associate Registrar
University of Southern California

A changing economy paired with increasing globalization are having a dramatic impact on America's workforce. In fact, Working Nation projects that over the next 20 years, technology will eliminate 47% of current jobs. Are we prepared for this looming shift? Working Nation looks to provide education and communication about this crisis to keep America working. Initial phases will focus on starting a national conversation through compelling programming, social media, and content, from data visualizations and animation, to TV news documentary segments and features, short films, among many more. Long term, through working with corporations, foundations, thought leaders and local governments, Working Nation looks to bring the country together, to create new jobs for our changing economy.

9.30am – 10.15am **LUMINA FOUNDATION – MAKING OPPORTUNITIES**

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

Moderator
Darin Hobbs
University Registrar
Western Governors University

10.15am – 10.45am BREAK

10.45am – Noon **CREDENTIAL ENGINE**

Scott Cheney
Executive Director
Credential Engine

Jeanne Kitchens
Associate Director
Center for Workforce Development
Southern Illinois University

Moderator
Susan McCrackin
Senior Director Financial Aid Methodology
College Board

Noon – 1.30pm	LUNCH
1.30pm – 2.00pm	CREDENTIAL ECOSYSTEM DATA MAPPING Alex Jackl President & CEO Bardic Systems Jeanne Kitchens Associate Director Center for Workforce Development Southern Illinois University <i>Moderator</i> Doug Holmes Programmer Analyst OUAC – Ontario Universities’ Application Centre
2.00pm – 2.30pm	BREAK
2.30pm – 3.00pm	<u>BREAKOUT SESSIONS: DEMOs and PILOTs</u> AcademyOne and Credential Engine DegreeData and Credential Engine Parchment and Credential Engine
3.00pm – 3.30pm	BREAK
3.30pm – 5.00pm	<u>BREAKOUT SESSIONS</u> JSON TASK FORCE EDEXCHANGE USER GROUP CANADIAN PESC USER GROUP
5.30pm – 6.00pm	ANNUAL PESC SPRING MEMBERSHIP MEETING

FRIDAY MAY 4, 2018

7.30am – 5.00pm REGISTRATION

7.30am – 9.00am CONTINENTAL BREAKFAST

8.30am – 10.15am **BREAKOUT SESSIONS**

AACRAO SPEEDE COMMITTEE

EDEXCHANGE USER GROUP

CREDENTIAL ECOSYSTEM DATA MAPPING

10.15am – 10.45am BREAK

10.45am – Noon **BREAKOUT SESSIONS**

GLOBAL EDUCATION ORGANIZATION (GEO) USER GROUP

STANDARDS DEVELOPMENT FORUM FOR EDUCATION

CREDENTIAL ECOSYSTEM DATA MAPPING

Noon ADJOURN

BREAKOUTS

AACRAO SPEEDE

The AACRAO Standardization of Postsecondary Education Electronic Data Exchange (SPEEDE) Committee coordinates and leads the development of national exchange standards by representing postsecondary education in appropriate standards setting bodies. PESC hosts SPEEDE meetings at each Spring and Fall Data Summit.

Academic Credentialing & Experiential Learning Task Force

PESC's Academic Credentialing and Experiential Learning Task Force is hosting DEMOs and PILOTs of PESC Members and Partners active in the community, featuring Credential Engine and collaborations with AcademyOne, DegreeData and Parchment.

Task Force members also collaborate in the Credential Ecosystem Data Mapping Initiative and support governance of the PESC Approved XML *Common Credential for Certificates, Degrees & Diplomas*.

Canadian PESC User Group

The Canadian PESC User Group (CanPESC) is an open, permanent group within PESC that serves as a clearinghouse for discussion and new ideas, a coordinator to help support electronic initiatives with several liaison roles established, and as a unifier in the mission toward digitalization. Participation in User Group meetings is encouraged and open to higher education stakeholders and those with stakeholder interests in Canadian education.

EdExchange User Group

EDEXCHANGE is a data exchange service offered and operated by PESC and directly managed by PESC Members. The foundation of the service is a directory 'look up' server that lists institutions, service providers and others that are able to exchange data electronically. The server itemizes the technical capacity of each, which document types are supported electronically and additional identifier data. To exchange data, users then connect directly with the respective recipient.

With several pilots successfully completed, priority for the User Group is the launch of EdExchange 1.0.

BREAKOUTS

GEO Code User Group

GEO CODE is a free 'look-up' service offered and operated by PESC and directly managed by PESC Members. The foundation of the service is an open, standardized directory 'look up' server that lists active and inactive institutions, including historical data plus additional demographic and identifier data.

Participation is encouraged and open to PESC Members and in collaborative partnership to AACRAO and the Groningen Declaration Network Signatories & Delegates.

As the User Group adds countries including assignment of GEO Codes, priority is now set to migrate from a database to an online directory and to support the USC/IERF pilot.

JSON Task Force

A4L and PESC have partnered on the development of JSON to provide comprehensive guidance and tools on JSON usage in approved open standards and specifications. This collaborative effort includes education stakeholder members from both organizations and aims to identify rules for creating a programmer friendly JSON from XML defined data models by maximizing natural access to data in popular programming languages and minimizing carryover of unsupported XML concepts.

The JSON Task Force is focusing on defining the APIs for accessing, validating, and translating all standards. The exchange of information would be defined as accessing a provider's end points to retrieve the needed information. It is anticipated that these API specifications would become the standard over time.

At the last face-to-face meeting, held in January in San Francisco, the Task Force it was realized that there is enough momentum to start development with real work tools. To this end, a GitHub repository for the group and will facilitate its management on behalf of the Task Force.

Standards Development Forum for Education

The Standards Development Forum for Education is the governing body that develops, manages and maintains all PESC APPROVED STANDARDS ensuring alignment with community initiatives and adherence to PESC's Policies & Procedures Manual for Standards Development.

The Forum is governed by a Steering Committee, Change Control Board and Technical Advisory Board and includes various development and mapping groups.

BOARD OF DIRECTORS

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VP & CIO
National Student Clearinghouse
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Education Strategist and Consultant
Credentials Solutions
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Systems Integration Analyst Great Lakes representing NASLA

CARROLL (CARY) BROWN

Senior Director, Campus Solutions Product Development,
Higher Education Applications Development, Oracle

TUAN ANH DO

Director of Enrollment Management Technology
San Francisco State University representing AACRAO

JAMES KELLY

Senior Director of Technology
Educational Credential Evaluators

MICHAEL SESSA

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RICK SKEEL

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Director of Financial Aid
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Registrar
Western Governors University

DOUG HOLMES

Programmer Analyst
OUAC – Ontario Universities' Application Centre

JAMES KELLY

Senior Director of Technology
Educational Credential Evaluators

JENNIFER KIM

Membership Services Director
PESC

SUSAN MCCRACKIN

College Board

ANNE VALENTINE

President & CEO
DegreeData

MISSION & VISION

Established in 1997 at the National Center for Higher Education, PESC operates as an international 501(c)(3) non-profit, community-based, umbrella association and headquartered in Washington, D.C. of:

- Data, Software & Technology Service Providers
- Schools, Districts, Colleges & Universities
- College, University & State/Province Systems
- Local, State/Province & Federal Government Offices
- Professional, Commercial & Non-Profit Organizations
- Non-Profit Associations & Foundations

>> OUR MISSION <<

Through open, transparent community participation, PESC enables cost-effective connectivity between data systems in order to accelerate performance and service, to simplify data access and research, and to improve data quality along the learner lifecycle.

>> OUR VISION <<

PESC envisions global mobility or interoperability within the learner domain supported by a trustworthy, inter-connected network built by, for & between communities of interest in which data flows digitally and seamlessly from one community, system or network 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.

>> GOALS OF THE MISSION <<

Goals of the PESC Mission Include: promoting student-and learner centric design and data modeling, hub and spoke models, federated identity, and similarly proven models of interoperability; fostering open, transparent collaboration across global education and learning sectors; improving institutional performance and data quality; simplifying access and reducing cost; and enabling sustainable best practices and innovative solutions that streamline emerging technologies and disparate information systems.

>> PESC TECHNOLOGY <<

PESC TECHNOLOGY and PESC APPROVED STANDARDS are community-sourced and driven by PESC serving as an incubator to pilot and launch data standards using an open, transparent and collaborative process; and serving as an open data standards-development and open data standards-setting body governing resource mapping and maintenance of education eco-system taxonomies, schemas and shared code sets in various technologies (EDI, XML, PDFxml, JSON) produced as PESC APPROVED STANDARDS. PESC APPROVED STANDARDS are platform and application neutral; adopted and integrated in systems, networks, applications, products and services; support a transaction or business process, and; can be implemented or used one independently from another.

GROUPS

**ACADEMIC CREDENTIALING
& EXPERIENTIAL LEARNING
TASK FORCE**

**CANADIAN PESC
USER GROUP**

**CHANGE CONTROL
BOARD**

**EDEXCHANGE
USER GROUP**

**EDUCATION RECORD
USER GROUP**

**GEO CODE
USER GROUP**

**JSON
TASK FORCE**

**SEAL OF APPROVAL
BOARD**

**STANDARDS DEVELOPMENT
FORUM**

**TECHNICAL ADVISORY
BOARD**

PESC APPROVED STANDARDS

PESC APPROVED STANDARDS are:

- available openly and free of charge, for the education, teaching and learning communities, a cornerstone principle of PESC, its Mission and Membership.
- workgroup developed, approved, ratified, and maintained through a transparent, open, rigorous community-based collaborative process, including a formal public notification when development initiates & a formal public comment period before approval, all governed by PESC Members.
- platform and application neutral; used, implemented, adopted and integrated in systems, networks, applications, products and services; are hub & spoke and web services friendly; support a transaction or business process, and; can be implemented or used one independently from another.

PESC APPROVED STANDARDS include:

- XML schema that outline data file design & record structure
- Implementation Guides that help explain & describe adoption, integration & use
- Instance Documents that display examples based on sample data.

PESC APPROVED STANDARDS and **PESC TECHNOLOGY** are community-sourced and driven by PESC serving as an incubator to pilot and launch data standards using an open, transparent and collaborative process; and serving as an open data standards-development and open data standards-setting body.

PESC GOVERNS resource mapping and maintenance of education eco-system taxonomies, schemas and shared code sets in various technologies (EDI, XML, PDFxml, JSON) produced as PESC APPROVED STANDARDS.

PESC APPROVED STANDARDS

**ACADEMIC COLLEGE
TRANSCRIPT**

ACADEMIC ePORTFOLIO

**ACADEMIC HIGH SCHOOL
TRANSCRIPT**

ADMISSIONS APPLICATION

**COMMON CREDENTIAL FOR
CERTIFICATES, DEGREES &
DIPLOMAS**

EDI

**EDUCATION COURSE
INVENTORY**

**EDUCATION TEST SCORE
REPORTING**

**FUNCTIONAL
ACKNOWLEDGEMENT**

PDF

REQUEST/RESPONSE

STUDENT AID

POLICIES & LOGISTICS

PESC requires that all speakers, moderators, chairs and attendees of Data Summits register and remit registration fees to attend Data Summits. PESC thanks all speakers and is grateful for their efforts in volunteering to provide updates and presentations. Only in rare instances, however (that is if a speaker is only attending a Data Summit for a specific session or presentation), can registration fees be waived and only by the PESC office.

All General (Plenary) and Breakout Summit Sessions and events are open to all registered attendees. Dress code is business casual. Transparent collaboration, engaging discussions, awareness of technical resources and best practices, identification of emerging technologies, new business contacts, and tips from experts of leading community organizations can be expected.

Note that General (Plenary) Sessions are presented in typical conference format in which featured speakers present on a certain topic followed by brief Q&A; while Breakout Sessions follow a more informal workshop format in which group members roll up their sleeves, discuss and interact in more detail in order to advance the group activities and maximize in-person convening time (crowd power).

For SPEAKERS, all hardware and software is ready and set up (laptop, projector, screen, podium, microphone, etc.). If speakers have a specific presentation, they can simply bring it with them on USB and plug it in right before the scheduled presentation. PESC can also swap in/out laptops if needed. Note that Powerpoint Presentations are NOT required.

TIPS For PRESENTATIONS: Remember to communicate the basic information and speak directly into the microphone. Fonts used in Powerpoint should be large (18+). PESC can also coordinate printing and distribution of handouts if submitted one week prior to the Summit. Lastly, please use the slide template for presentations. Please add your own logos and your creative energy to capture the attention and imagination of the PESC attendees.

For BREAKOUT SESSIONS, each room, if needed, is equipped with projector, screen and speaker phone and may be setup in U-Shape format. Group Chairs are responsible for managing and facilitating all sessions and preparing and distributing respective agendas and information.

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ABOUT OUR SPEAKERS

Rajeev Arora has 27 years of sales, marketing, and product development experience in the software and Internet industries. As Senior Vice President of Product & Support at Parchment, Rajeev Arora is responsible for leading global product strategy, architecture and design. Rajeev also oversees the product development, quality assurance, hosting infrastructure, SaaS operations, customer support and training teams. In August 2016, Rajeev was selected by the Department of Education to serve as a member of the national Technical Working Group charged with transforming higher education through technology through the expansion of the 2016 National Educational Technology Plan. Rajeev currently serves on the Board of Directors for PESC.

Formerly, Rajeev served as President and was part of the founding team for TiE-Arizona – the Arizona chapter of The Indus Entrepreneurs as well as the Board of Directors of The Arizona Software Association (now the Arizona Technology Council). Prior to joining Parchment, Rajeev was Vice President of Marketing and Strategy at Elluminate which was acquired by Blackboard where he continued as Vice President of Marketing and Strategy for Blackboard Collaborate. Prior to Elluminate, Rajeev served as Vice President of Product Marketing at Viasoft (now ASG Software), where he was responsible for launching the company's PC software business unit from concept to sales of over \$75M within 18 months. Rajeev holds a B.S. in Electrical Engineering from Rensselaer Polytechnic Institute and a M.S. in Engineering Management from Santa Clara University.

As the Founder and CEO of AcademyOne, **David Moldoff** has made an impact on thousands of higher education institutions throughout his career. He has spent the last four decades launching and running technology companies and building his reputation as an industry expert in software architecture and systems integration, specifically across the many facets of the education sector. He is especially committed to addressing the technological and systemic issues surrounding academic credit portability, college access and degree completion strategies.

Amber Garrison Duncan is a strategy director at Lumina Foundation where she leads a portfolio of work that supports the creation of a system where all learning can be validated and valued regardless of where it happens, and efficiently contribute to high-quality credentials. Lumina's work in this area includes competency-based education, learning frameworks, assessment, credential recognition and learner records, as well as quality assurance.

This work allows Garrison Duncan to draw on her 15 years of experience as a campus-based professional, designing co-curricular learning experiences and leading assessment. Prior to joining Lumina Foundation in 2013, Amber served as director of student affairs assessment and research, University of Oregon; director of family programs and commencement, University of Oregon; first-year experience instructor, Florida State University; intake and investigations coordinator, University of Michigan; and assistant director of housing and Greek life, Hope College.

Garrison Duncan has researched and written on general education, assessment, innovation in student affairs, Latinas in higher education and women in leadership. She is co-editor of the book *Leading Assessment for Student Success: Ten Tenets That Change Culture and Practice in Student Affairs* (Stylus, 2015). Amber holds a bachelor's degree from Texas Woman's University, a master's degree from Texas A&M University and a Ph.D. from the University of Oregon. Leadership experiences include former board member of Alpha Gamma Delta, founding board chair of Oregon Women in Higher Education, and co-founder of Levo League Indianapolis. Dr. Garrison Duncan currently serves on the Indiana Latino Education Summit Steering Committee as well as the Board of Directors for the Texas Woman's University Foundation.

Jane Oates, Executive Committee, was nominated by President Barack Obama to join Secretary of Labor Hilda L. Solis' leadership team at the Department of Labor in April, 2009. Confirmed as Assistant Secretary for Employment and Training on June 19, 2009, she led the Employment and Training Administration (ETA) in its mission to design and deliver high-quality training and employment programs for our nation's workers.

Prior to her appointment, Jane served as Executive Director of the New Jersey Commission on Higher Education and Senior Advisor to Governor Jon S. Corzine. Jane served for nearly a decade as Senior Policy Advisor for Massachusetts Senator Edward M. Kennedy.

Jane began her career as a teacher in the Boston and Philadelphia public schools and later as a field researcher at Temple University's Center for Research in Human Development and Education. She received her BA in Education from Boston College, and an M.Ed in Reading from Arcadia University.

Mike Reilly joined the American Association of Collegiate Registrars and Admissions Officers – AACRAO as Executive Director on June 1, 2012. Prior to coming to AACRAO he served as the Executive Director for the Council of Presidents, an association of the six public baccalaureate degree granting institutions in Washington state. He has 20 years of experience in university admissions and enrollment management, including having served as the Associate Vice President for Enrollment Management at both Central Washington University and Humboldt State University; and currently serves as Vice Chair of the Groningen Declaration Network's Board of Directors.

Dr. Ken Sauer has been with the Indiana Commission for Higher Education since 1985 and holds the position of senior associate commissioner for research and academic affairs. His duties as chief academic officer for the commission include: -Making recommendations on proposals for new degree programs; -Reviewing existing degree programs; -Analyzing programs with few graduates or low enrollments; -Overseeing commission student data systems; -Representing the commission with various external constituencies, such as the Indiana General Assembly Collaborating with other units of state government on inter-agency projects; and -Undertaking applied research and policy studies

While at the commission, he has been closely associated with a number of special state-level initiatives, including: Indiana e-Transcript Initiative Formulation of dual credit policy Development and implementation of Indiana's comprehensive community college system Transfer Indiana Initiative, including working with the Statewide Transfer and Articulation Committee (STAC), and funding and implementation of a statewide transfer web site Agreement on the future directions of IU and Purdue regional campuses Indiana's strategic directions framework for policy and planning development in higher education.

Prior to joining the commission, he served with the Illinois Board of Higher Education (1980-1985) and the National Center for Higher Education Management Systems (NCHEMS) in Boulder, Colorado (1975-1980). While at NCHEMS, Dr. Sauer developed a classification system that is still used annually by all colleges and universities in the United States for reporting degree data to the federal government, Classification of Instructional Programs (CIP codes). He also developed a projection model that was used for many years by the U.S. Secretary of Health for periodically reporting data on nursing supply and demand to the President and Congress.

Dr. Sauer earned his Ph.D. in international relations/ government from the Claremont Graduate University and his Bachelor of Arts in Sociology from St. John Fisher College. Between college and graduate school, he served as a Peace Corps volunteer on the island of St. Kitts in the West Indies.

Jason A. Tyszko is executive director 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.

Tyszko's prior experience focused on coordinating interagency education, workforce, and economic development initiatives. In 2009, he served as a policy adviser to Illinois Gov. Pat Quinn's administration and as a member of the Executive Committee that directed more than \$10 billion in investments to aid in the state's recovery. While in the Office of the Governor, Tyszko chaired the interagency Job Training Working Group and developed Illinois Pathways, the signature public private STEM education strategy included in the state's Race to the Top proposal.

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

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

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

Anne Valentine has been working in the higher education sector for over twenty years. She began her career by founding SmartCatalog, a software company which manages academic content for colleges. Currently, Anne is the founder and CEO of DegreeData; a national repository of college curriculum. DegreeData provides specific information about programs and requirements from official curriculum documents exclusively. DegreeData's mission is to deliver highly-detailed credential information to colleges, individuals and employers.

Levette Williams is the Chief Privacy Officer at the Georgia Department of Education. She is also the agency's Technology Director responsible for overseeing data collections and reporting, a position she has held for 18 years. Levette serves as a leader in the National Forum on Education Statistics and has been instrumental in helping the Forum fulfill its mission to plan, recommend, and develop education data resources that support local, state, and national efforts to improve education. She has chaired Forum Standing Committees; helped to develop the Forum's policies and procedures, and was a longstanding contributor to the Forum's Communications Subcommittee. She has contributed extensively to Forum resources on topics including civil rights data, student data privacy, and supporting data access for researchers, and she was part of the team that developed the Forum Curriculum for Improving Education Data.

MENUS

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ApplyAlberta
McGill University
Memorial University of Newfoundland
OCAS
Ontario College Application Service
OUAC
Ontario Universities' Application Centre
Simon Fraser University
University of British Columbia
University of Lethbridge

IRELAND

Digitary

NETHERLANDS

Groningen Declaration Network

UNITED STATES OF AMERICA

AACRAO
American Association of Collegiate Registrars
and Admissions Officers
A4L
Access4Learning
ACE
American Council on Education
College Board
Common Application
NASLA
National Association of Student
Financial Aid Administrators

AcademyOne
ACT
Bardic Systems
Credentials Solutions
ECE
Educational Credential Evaluators
Eduventures

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Federation of State Medical Boards
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International Education Research Foundation
iQ4
Jenzabar
National Student Clearinghouse
Oracle
Paradigm
Parchment
Smart Catalog
Student Connections
Workday

Arizona State University
Brown University
California Community College System
California State University System
Central Connecticut State University
Community College of the Air Force
Cosumnes River College
Elon University
Emory University
Florida International University
Georgetown University
Indiana State University
Michigan State University
Southern Connecticut State University
Stanford University
University of Arizona
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University of Idaho
University of Louisiana at Lafayette
University of Maryland University College
University of Michigan
University of Mississippi
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University of Puerto Rico System
University of Southern California
University of Texas at Austin
University of Virginia
University of Wisconsin at Madison
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Western Governors University

ANNUAL BEST PRACTICES

THE ANNUAL BEST PRACTICES COMPETITION IS HELD BY PESC
TO HIGHLIGHT AND PROMOTE INNOVATION AND INGENUITY
IN THE APPLICATION & IMPLEMENTATION OF
INTEROPERABLE DATA STANDARDS FOR BUSINESS NEEDS

First held in 1999, the Annual Best Practices 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.

The Best Practices Competition is open for submissions that can include descriptions of the scope of a project, participant organizations, type of standards employed, relevant dates/project milestones, copies of articles (if an article submission), outline of mission/objectives and any related statistics (# of transactions, cost savings, etc.).

2017

iQ4 & National Student Clearinghouse

*Extending the Capacity of Higher Education to Scale the Output
of Verified Workforce-Ready Graduates*

2016

University of Tennessee System & AcademyOne

Automating Reverse Transfer for the State of Tennessee

2015

Elon University & Parchment

*Elon Experiences Transcript and Integration
to the Academic Transcript*

2014

University of Phoenix

2013

OCAS - Ontario College Application Service

2012

**NCES - National Center for Education Statistics
U.S. Department of Education**

2011

South Carolina

2010

College Foundation of North Carolina

2009

California Community College Technology Center

2008

Sinclair Community College & Wainwright State University

2007

DQC – Data Quality Campaign

2006

NCHELP

2005

FSA

Federal Student Aid, U.S. Department of Education
*Common Origination and Disbursement (COD)
& Common Record*

2004

A4L

SIFA Specification

2003

ELM Resources & NCHELP
ELMNet & Meteor

2002

NCHELP

CommonLine

2001

University of Northern Iowa

2000

OUAC - Ontario Universities' Application Centre

DISTINGUISHED SERVICE AWARDS

DISTINGUISHED SERVICE AWARDS

Many, many volunteers from the PESC Membership and education community have helped shape PESC into the organization it is today and we truly thank everyone. The success of PESC is due to the valuable output (from white papers to development, approval and maintenance of standards) produced through workgroups and committees that are staffed and run by these volunteers.

Certain individuals and organizations have gone above and beyond the call of duty and PESC takes the opportunity at Data Summits to recognize them with Distinguished Service and Achievement Awards. PESC Awards serve as our opportunity to say thank you for being a leader and for making a positive impact on education.

2017

ARUCC

Mei Hung

2016

Thomas Black

Leisa Wellsman

2015

CA Community College Technology Center

Jeffrey Alderson

2014

Brian Allison

Doug Holmes

David Webber

2013

Hans L'Orange

Susan McCrackin

2012

John Ittelson, Ph.D.

2011

AACRAO SPEEDE Committee

Charles Leonhardt

2010

Kristi Blabaum

Michael Morris

2009

Steve Biklen

Dave Moldoff

Clare Smith-Larson

2008

Judith Flink

2007

AACRAO

Jim Farmer

2006

Ed Hauser

Keith Riccitelli

Tom Stewart

2005

Tim Bornholtz

Mark Bolembach

2004

Holly Hyland

Adele Marsh

Dallas Martin

Bruce Marton

2003

Jerry Bracken

2002

Steve Margenau

Adele Marsh

Bruce Marton

Paul Ness

Jeanenne Rothenberger

Michael Sessa

2001

Rebecca Babel

Ellen Blackmun

Steve Margenau

Karl Van Neste

2000

David Leonard

Tim Pavlick

Dave Stones



ACTIVATING INTEROPERABILITY ACROSS THE EDUCATION DOMAIN

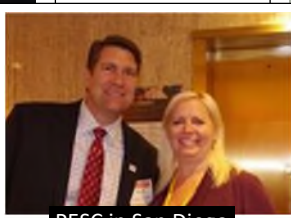
PESC Board '10 Year Service' DC May 3-5, 2017



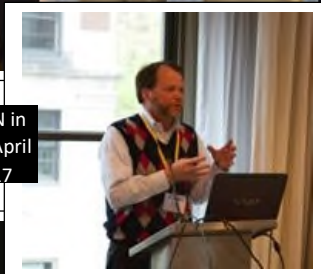
GDN Board in Melbourne April 26-28, 2017



PESC in San Diego
October 14, 2016



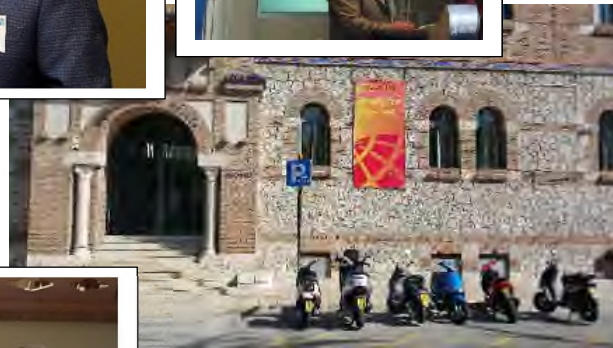
PESC at GDN in
Melbourne April
26-28, 2017



PESC at GDN in
Melbourne April
26-28, 2017



PESC at NDIA/ADL in Alexandria August 1, 2017
EWP at PESC San Diego May 3-5, 2017



PESC at GDN in Malaga May 4-6, 2015
GDN at PESC DC April 13, 2016

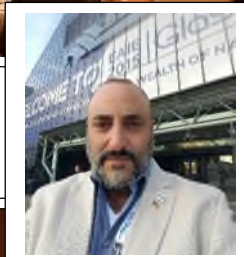


PESC in San Diego October 14, 2016

PESC at EWP in Brussels Sept 26, 2017



PESC at EAIE in
Glasgow
Sept 15, 2015



PESC at EWP in
Brussels
Sept 26, 2017



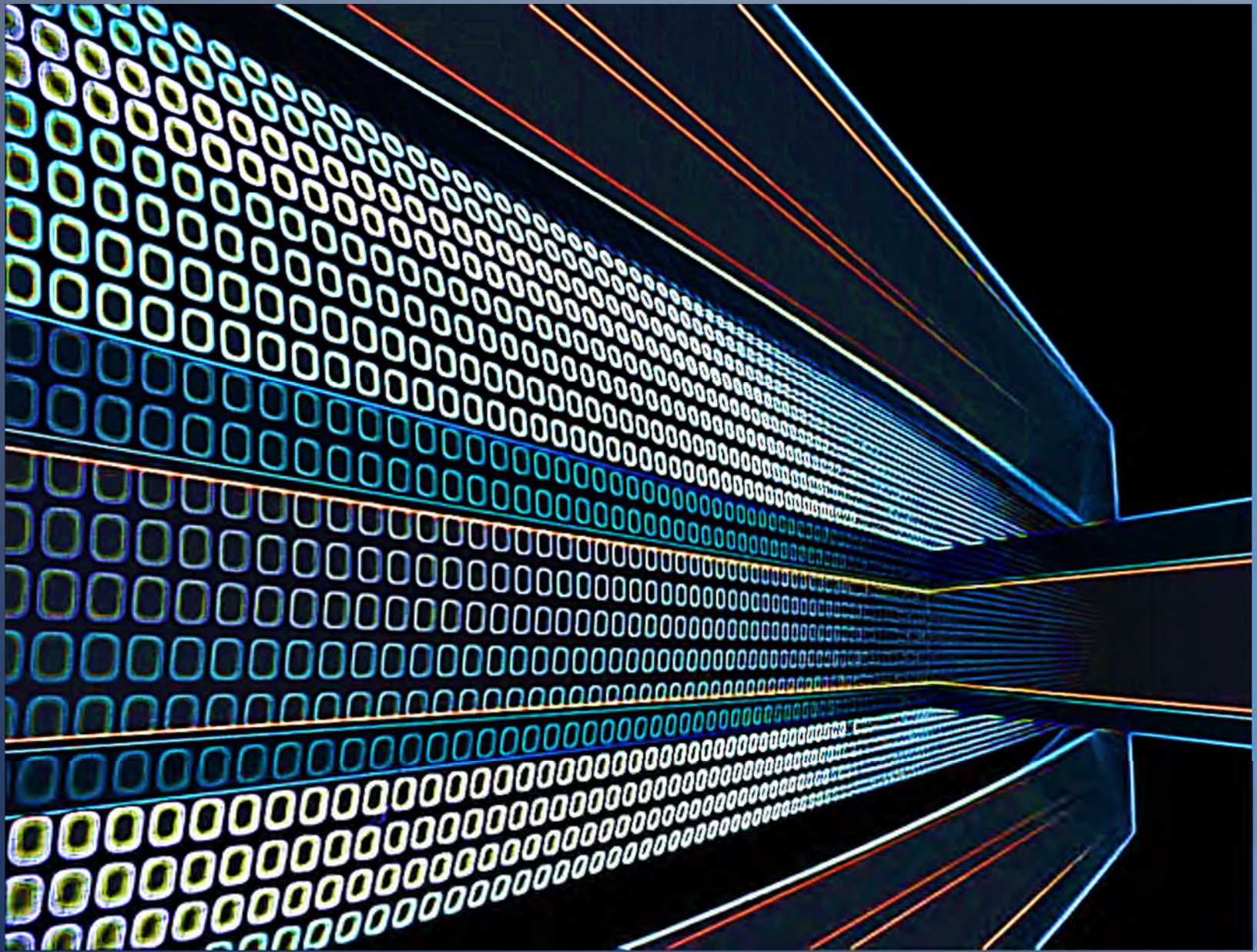
PESC at Blockchain Conference in Groningen Sept 5, 2017



PESC at GDN in
Cape Town
May 17-19, 2016



PESC at GDN in Melbourne April 26-28, 2017



Leading the

ESTABLISHMENT & ADOPTION
OF OPEN DATA STANDARDS
ACROSS THE EDUCATION DOMAIN

PRESS

WWW.PESC.ORG



POSTSECONDARY ELECTRONIC STANDARDS COUNCIL
1250 CONNECTICUT AVENUE NW
SUITE 200

WASHINGTON, D.C. 20036

T 202.261.6516

F 202.261.6517

INFO@PESC.ORG

WWW.PESC.ORG

WWW.FACEBOOK.COM/PESCUPDATES

WWW.TWITTER.COM/PESCUPDATES



PESC LEADS THE ESTABLISHMENT & ADOPTION OF OPEN DATA STANDARDS ACROSS THE EDUCATION DOMAIN BY SERVING AS AN OPEN STANDARDS-DEVELOPMENT & OPEN STANDARDS-SETTING BODY.

PESC TECHNOLOGY IS COMMUNITY-SOURCED AND DRIVEN BY PESC SERVING AS AN INCUBATOR TO PILOT AND LAUNCH DATA STANDARDS (EDI, XML, PDF, JSON) USING AN OPEN, TRANSPARENT AND COLLABORATIVE PROCESS.

AS A DATA STANDARDS-DEVELOPMENT AND DATA STANDARDS-SETTING BODY FOUNDED IN 1997, PESC GOVERNS RESOURCE MAPPING AND MAINTENANCE OF EDUCATION ECO-SYSTEM SCHEMAS, TAXONOMIES AND SHARED CODE SETS IN VARIOUS TECHNOLOGIES.

CURRENT PESC GROUPS & COMMITTEES

- 1) ACADEMIC CREDENTIALING & EXPERIENTIAL LEARNING
- 2) BOARD OF DIRECTORS
- 3) CANADIAN PESC USER GROUP
- 4) CHANGE CONTROL BOARD
- 5) EDEXCHANGE
- 6) EDUCATION RECORD USER GROUP
- 7) GLOBAL EDUCATION ORGANIZATION CODE
- 8) STANDARDS DEVELOPMENT FORUM FOR EDUCATION
- 9) TECHNICAL ADVISORY BOARD

CURRENT PESC APPROVED STANDARDS

- 1) ACADEMIC COLLEGE TRANSCRIPT
- 2) ACADEMIC EPORTFOLIO
- 3) ACADEMIC HIGH SCHOOL TRANSCRIPT
- 4) ACADEMIC RECORD
- 5) ADMISSIONS APPLICATION
- 6) COMMON CREDENTIAL FOR CERTIFICATES, DEGREES & DIPLOMAS
- 7) CORE MAIN
- 8) DATA TRANSPORT
- 9) EDI
- 10) EDUCATION COURSE INVENTORY
- 11) EDUCATION TEST SCORE REPORTING
- 12) FUNCTIONAL ACKNOWLEDGMENT
- 13) PDF ATTACHMENT
- 14) REQUEST - RESPONSE
- 15) STUDENT AID
 - COMMON RECORD COMMONLINE - CRC
 - ONLINE LOAN COUNSELING
 - STUDENT LOAN DETAIL PORTFOLIO

ANNUAL AWARDS INCLUDE

- 1) 19TH ANNUAL BEST PRACTICES COMPETITION
- 2) DISTINGUISHED SERVICE AWARDS

CURRENT PESC FUNDING ORIGINATES FROM

- 1) ANNUAL MEMBERSHIP DUES
- 2) REGISTRATION FEES FROM SPRING & FALL DATA SUMMITS
- 3) ANNUAL SPONSORSHIP

SPRING & FALL DATA SUMMITS

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MICHAEL SESSA, PRESIDENT & CEO

JENNIFER KIM, MEMBERSHIP SERVICES DIRECTOR

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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 of the [Annual California Electronic Transcripts Workshop and CCCApply](#).

PESC IS A PROUD MEMBER/AFFILIATE/SIGNATORY of is [AACRAO](#), of the [NCES National Forum on Education Statistics](#), and of the [Groningen Declaration Network](#).

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 & 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.

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